Ofsted Good Provider 2022

Need To Know Book Year 10 2024/2025

Name:

Form Group: _____

Take Responsibility.

Be Kind.

Work Hard.

Helping every person achieve things they never thought they could.

Little Lever School be kind | work hard | take responsibility



What does the top of my mountain look like?

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Helping every person achieve things they never thought they could.



Knowledge Retrieval Sheet

What are knowledge retrieval sheets?

Take Responsibility.

Here at Little Lever School, we think it is really important that you know what the essential knowledge is for each subject that you study. Learning takes place not only in the classroom, but in all areas of the school building, and at home. These knowledge retrieval sheets contain all the essential knowledge you will need to help revise and make progress towards achieving your best in all of your subjects.



Work Hard.

By using your knowledge retrieval sheets each week you will be able to transfer your knowledge from your short-term memory, and make it stick. Within all your lessons, you will be asked to retrieve knowledge from your long-term memory. This might be in the form of quizzes or longer responses. These might require you to use lots of information you have already stored from previous lessons and from your own life experiences. These Need to Know Books will help you to check how much you can remember.

We have designed your knowledge retrieval sheets so that they are simple for you to use both in school and at home. You can even get others to help you. Below are some options for how you might use each sheet to make the knowledge stick in your brain so that you will be able to remember it.

Using Knowledge Retrieval Sheets- 5 Top Tips:



- **'Look, Cover, Say, Write, Check'-** Look at a fact on your sheet, cover it up with your hand or a piece of paper. Say it out loud, write the fact down without checking and then uncover and check if you were correct.
- 'If this is the answer, what is the question?'- Quiz yourself by covering up facts on your sheet. For example, you could cover up the definition of key vocabulary and try to remember what the key vocabulary means.

Independent low-stakes quizzing- Use the questions on the back of each sheet to test yourself. You should write the answers on a separate sheet of paper so that you can use the question sheet again in future.

Paired low-stakes quizzing- Give your book or a sheet to someone else. (Could be a friend, teacher or family). They can ask you the questions on the back of any sheet and use the facts on the front to check if you are correct.

Flashcard Revision- Make flashcards using your knowledge sheets. Can you summarise the essential knowledge into your own words to put onto a pocket-sized revision card?

Helping every person achieve things they never thought they could.



Art and Photography

Helping every person achieve things they never thought they could.



Year 10 Art: Assessment Objectives (A01 + A02)

DEVELOP DEVELOP IDEAS

INVESTIGATE & RESEARCH OTHER ARTISTS WORK ANALYSE

ANNOTATE



AO1

These are the things that you should consider including in AO1:

- Artist research pages.
- Visits to exhibitions and galleries.
- Your own responses in the style of the artist.
- Interviews with artists/ photographers.
- Annotate and analyse what you have found out.



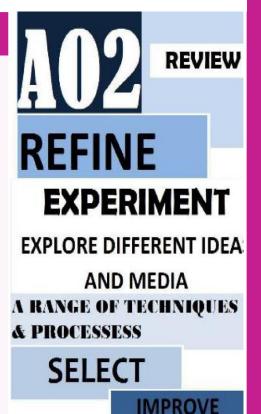




AO2

These are the things that you should consider including in AO2

- Experimenting in response to your chosen artists.
- Use relevant materials and techniques to experiment with
- Experiment with new materials, tools and techniques as well as familiar ones.
- Try out different combinations of media and techniques
- Practise and refine your use of your chosen media, tools and techniques



Year 10 Art: Assessment Objectives (A01 + A02)



INVESTIGATE & RESEARCH

ANNOTATE

OTHER ARTISTS WORK

ANALYSE

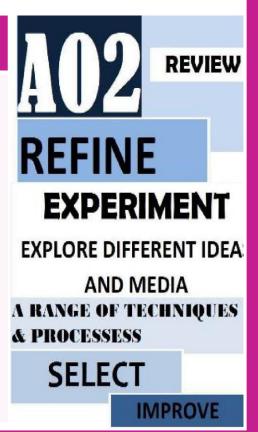
What are the things you should consider including in AO1?

List at least 5 things that you would include.



What are the things you should consider including in AO2?

List at least 5 things that you would include.







Year 10 Art: Assessment Objectives (A03 + A04)

EVIDENCI

RECORD

PRESENT IDEAS

PRIMARY OBSERVATION

DRAWING, PAINTING,

PRINTING, PHOTGRAPHY,

WRITING, PHOTPGRAPY....

DIFFERENT MEDIA

ANNOTATE

AO3

These are the things that you should consider including in AO3:

- Title page.
- Mind Map.
- Mood-boards.
- Bullet points
- Notes/Annotation
- Longer paragraphs
- Photographs.
- Observational drawings
- Sketches
- Designs
- Diagrams
- Drawing using Photoshop





AO4

These are the things that you should consider including in AO2

- Plans and drawings of final piece ideas.
- Mini mock-ups and experiments for final piece.
- Creating an original final piece, that is clearly inspired by your research and creative journey.
- Evaluation of final piece (how does your piece link to the project theme?)



CONCLUSION

Year 10 Art: Assessment Objectives (A03 + A04)



What are the things you should consider including in AO3?

List at least 5 things that you would include.

PRIMARY OBSERVATION

DRAWING, PAINTING, PRINTING, PHOTGRAPHY, WRITING, PHOTPGRAPY...









What are the things you should consider including in AO4?

List at least 4 things that you would include.



CONCLUSION

Year 10 Fashion: (A01 + AO2)

EXPLORE AO1 is about developing ideas from a starting point to a final piece.

You could start your development work by:

studies

designers

Making observational

Looking at the work

Experimenting with

materials, processes

or techniques.

of other artists or

INVESTIGATE & RESEARCH OTHER ARTISTS WORK ANALYSE

DEVELOP IDEAS

DEVELOP

ANNOTATE



A primary source is one that you study directly from a first hand experience. A secondary source is a material produced by others. AO2 is about refining you ideas through selecting and experimenting.

Your choice of resources should be linked of the media and materials used by artists and designers.

When selecting and using appropriate resources and media have you?

- Considered how other artists and designers have used media and processes?
- Experimented and practiced with your chosen materials and techniques?
- Worked with familiar as well as new media and techniques.
- Used contextual references in your development work?





REFINE EXPERIMENT

EXPLORE DIFFERENT IDEA

IMPROVE

AND MEDIA A RANGE OF TECHNIQUES & PROCESSESS

SELECT

Year 10 Fashion: (A01 + AO2)

EXPLORE

AO1 is about...

You could start your development work by:

INVESTIGATE & RESEARCH

DEVELOP IDEAS

OTHER ARTISTS WORK

DEVELOP

ANALYSE

ANNOTATE



A primary source is one that you study directly from a ______. A secondary source is a material produced by _____. AO2 is about....

Your choice of resources should be linked of the ______and _____used by artists and designers.

When selecting and using appropriate resources and media have you?





EXPERIMENT

EXPLORE DIFFERENT IDEA:

AND MEDIA A RANGE OF TECHNIQUES & PROCESSESS

SELECT

IMPROVE

Year 10 Fashion: (A03 + AO4)



PRIMARY OBSERVATION

DRAWING, PAINTING, PRINTING, PHOTGRAPHY, WRITING, PHOTPGRAPY...

ANNOTATE

DIFFERENT MEDIA



A03 is about recording your ideas, observations, insights which can be visual, written or in other forms.

To reflect on your work you need to develop your critical ideas and understanding by-

- Studying other artists and designers and exploring aspects of their work
- Analytical sketches, diagrams or annotated illustrations
- Development studies that record variation

Don't just describe what you have done. Try to analyse or evaluate what you have done at each stage, demonstrating your critical understanding. A04 is about presenting a personal, informed and meaningful response, from your initial research to your final piece.

In order to make a meaningful response it is important to demonstrate that you have selected a suitable source material and media.

When making a personal response you should:

- Consider different themes or approaches
- Carefully select and study your source materials
- Make a personal choice about materials
- Experiment with media, materials and techniques
- Record and develop your ideas in a personal way
- Presented your work carefully



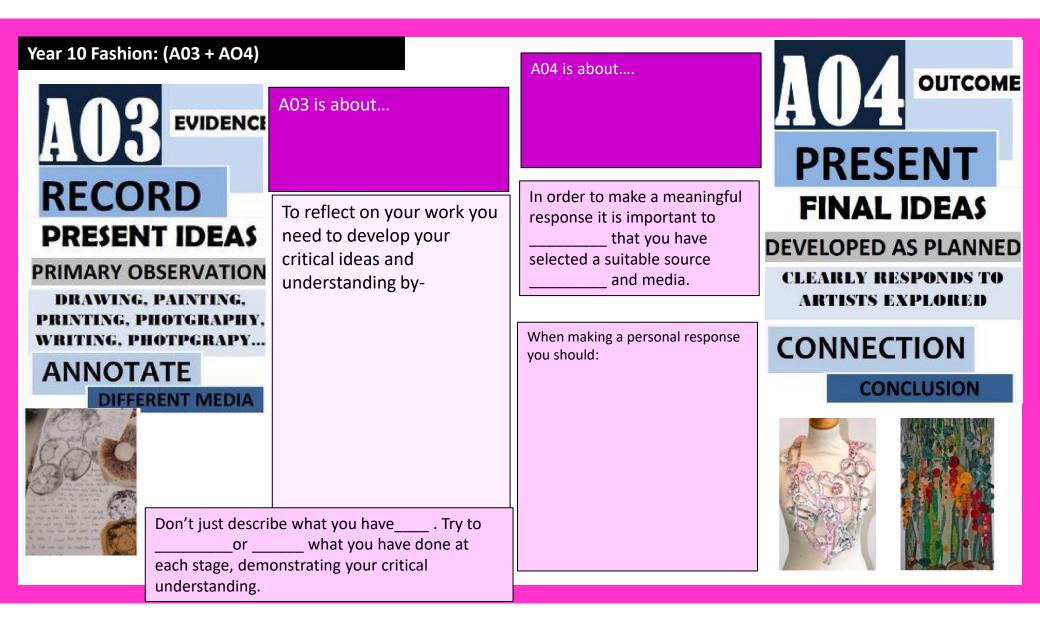
DEVELOPED AS PLANNED

CLEARLY RESPONDS TO ARTISTS EXPLORED

CONNECTION







Year 10 Photography:								
Term	Terminology Definitions:							
1.	The amount of time the camera's shutter is open for. Longer shutter speeds (1/10s, 1s, 3s, etc) allow more light in but will cause blurring of anything moving.							
Shutter Speed	Shorter shutter speeds let less light in and can capture moving subjects as still or 'frozen'.							
2.	This is the amount of light entering the camera's sensor . Too much light and the image is overexposed, not enough light and it's under exposed.							
Exposure	Exposure is determined by a combination of shutter speed, aperture, and ISO .							
3. Aperture	 The opening (or 'pupil') of your lens is called aperture, which can be made smaller or bigger to change the amount of light being let in. A wide aperture (such as f/1.4) lets more light in, allowing for a faster shutter speed or lower ISO, and a shallow depth of field (How much of the image is in focus). A narrower aperture (such as f/8) lets less light through, requiring a slower shutter speed or higher ISO, but results in more of your image being in focus. 							
4.	F-Stop or F-number is the aperture size or aperture stop in a number that controls the size of the lens opening. Therefore controlling the amount of light entering the camera .							
F-Stop	Smaller f-stops, like f/1.4 or f/2, indicate a wider aperture, while larger F stops, like f/11 or f/16, indicate a narrower aperture.							
5.	This is produced by blurring the background of an image and is popular in portraits as it forces you to focus on the subject. Most photographers look for smooth bokeh so as to not distract from the rest of the image.							
Bokeh	Using this technique, light sources can appear as smooth blobs of colour .							

Year 10 Photography: Terminology Definitions: Term 1. **Shutter Speed** 2. Exposure 3. Aperture 4. F-Stop

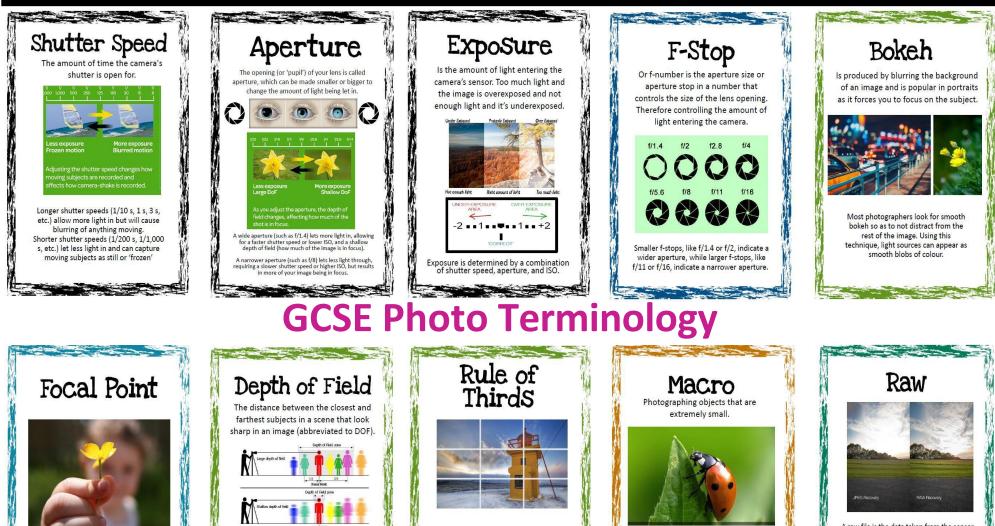
5. Bokeh

rear 10 Ph	lotography.
Term	Terminology Definitions:
6. Depth of Field	The distance between the closest and furthest subjects in a scene that looks sharp in an image. A wide aperture (f/1.4, f/2, etc.) produces a shallow depth of field, which can be used to isolate a subject. And narrow aperture (f/11 or f/16), produces a wide depth of field which keeps everything in focus.
7. Focal Point	This is the way to describe the main part of the image or a point of interest within the image . It is where the viewers eye is drawn to the most.
8. Rule of Thirds	A common compositional tool that states that one should divide the image frame into equal vertical and horizontal thirds, then place points of interest at the intersections of the dividing lines.
9. Macro	Photographing objects that are extremely small. Macro lenses can usually capture more detail than we can see with the naked eye . Normally macro photographers would use a lens with a 1:1 ratio, which is the size of the subject on the sensor.
10. Raw	A raw file is the data taken from the sensor without any sort of image processing applied . As opposed to a JPEG produced by the camera. Though bigger in file size, photographers prefer RAW files because they allow for more creative range in post processing and higher image quality before exporting the final image in a file format such as JPEG.

Camera

	ocography	
Term	Terminology Definitions:	
6. Depth of Field		
7. Focal Point		
8. Rule of Thirds		
9. Macro		
10. Raw		

Camera



Is a way to describe the main part of the image or a point of interest within the image. It is where the viewer's eye is drawn to most.

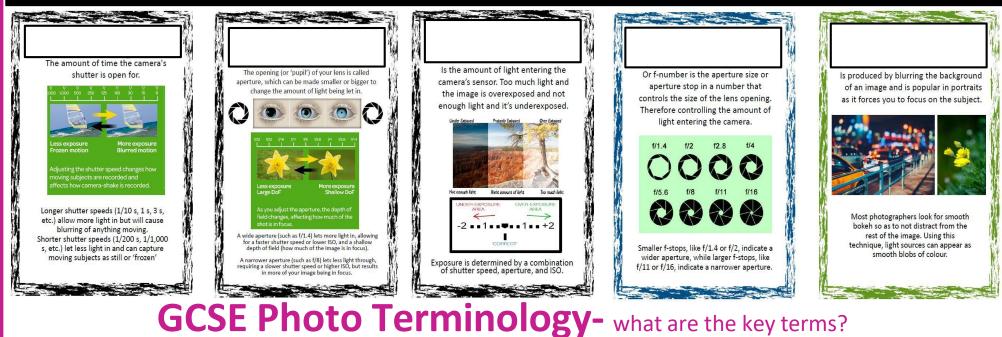
A wide aperture (f/1.4, f/2, etc.) produces a shallow depth of field, which can be used to isolate a subject. A narrow aperture (f/11, f/16, etc.) produces a wide depth of field, which keeps everything in focus.

A common compositional tool that states that one should divide the image frame into equal vertical and horizontal thirds, then place points of interest at the intersections of the dividing lines.

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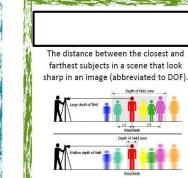
A raw file is the data taken from the sensor without any sort of image processing applied (as

opposed to a JPEG produced by the camera). Though bigger in file size, photographers prefer raw files because they allow for more creative range in post-processing and higher image quality before exporting the final image in a file format like JPEG.





Is a way to describe the main part of the image or a point of interest within the image. It is where the viewer's eye is drawn to most.



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Computing, Business and Media



Helping every person achieve things they never thought they could.



The Dynamic Nature of Business

about?

Why do new business ideas come about:

- Changes in technology
- Changes in what consumers want
- Products & services becoming obsolete

Original ideasAdapting existing

products/services/ideas

How do new business ideas come

Risk and Reward

Risk:

- Business failure
- Financial loss
- Lack of security

For example:

One risk is lack of security as an entrepreneur may have previously had a job and guaranteed income however income will depend on how well the enterprise performs.

Reward:

- Business success
- Profit
- Independence

For example:

One reward is independence as previously the entrepreneur would have had a manager telling them what to do. This independence may result in higher motivation because the entrepreneur is free to make their own decisions.

Revenues, Costs and Profits

Total costs

TC (total cost) = TFC (total fixed costs) + TVC (total variable costs)

Revenue

```
Revenue = price × quantity
```

Break even

Break	ovon	noint	in	unite	fixed cost						_	
DICOK	even	point		unics	-	(sales	price	-	variable	cost))	

Break even point in costs / revenue = break even point in units × sales price

Margin of safety

Margin of safety = actual or budgeted sales - break even sales

Interest (on loans)

Interest (on loans) in % =
$$\frac{\text{total repayment} - \text{borrowed amount}}{\text{borrowed amount}} \times 100$$



The Dynamic Nature of Business Why do new business ideas come about: • -</t

- · -
- -
- For example:

What is reward?

- -
- -
- _

For example:

Total costs TC (total cost) =

Revenue

Revenue =

Break even

Broak	oven	even point in units =					fixed cost			
DICOK	even	point		units	-	(sales	price	-	variable	cost)

Break even point in costs / revenue = break even point in units \times sales price





Revenues, Costs and Profits

+

Revenues, Costs and Profits

Break Even Level of output is where Total Costs = **Total Revenue**. In this example, the break even level of output is 25

Margin of Safety is the difference between the break even level of output and the actual level of output. If the actual output in this example was 50, the margin for safety would be 25 (50 - 25).

Calculating the Break Even Level of Output

Examples: Sony's fixed costs for the PlayStation 3 are £2,400,000 and variable costs are £140 per console. Calculate the break-even point when the PlayStation 3 was priced at £300. Show your working out and the formula used.

Break even point in units = $\frac{\text{fixed cost}}{(\text{sales price - variable cost})}$

- The selling price of a PlayStation 3 is £300.
- The variable cost of production is £140.
- Every time a PlayStation is sold, Sony makes £160 above the variable cost of production (300 140).
- This £160 is called a contribution

How many £160s are needed to pay off the fixed cost of £2 400 000?

- £2,400,000 / 160 = 15 000
- The break-even level of output is 15 000.

Cash and Cash Flow

Net cash-flow

Net cash-flow = cash inflows - cash outflows in a given period

Opening and closing balances

Opening balance = closing balance of the previous period

Closing balance = opening balance + net cash-flow

Cash flow forecasts

- A forecast of all the cash flowing into and out of the business.
- Shows opening balance at start of each month and closing balance at end.
- Normally produced monthly but can be any time frame e.g. weekly.

Opening Balance

• Cash available at the start of the month.

Closing Balance

• Cash available at the end of the month.



Revenues, Costs and Profits

Break Even Level of output is where...

Margin of Safety is...

Calculating the Break Even Level of Output

Examples: Sony's fixed costs for the PlayStation 3 are £2,400,000 and variable costs are £140 per console. Calculate the break-even point when the PlayStation 3 was priced at £300. Show your working out and the formula used.

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How many £160s are needed to pay off the fixed cost of £2 400 000?

Cash and Cash Flow

Net cash-flow

Net cash-flow =

Opening and closing balances

Opening balance =

Closing balance =

What are cash flow forecasts?

- -
 - -
 - -

What is an opening balance?

• _

What is a closing balance?

• _



Year 10: GCSE Business	Stakeholders				
What does a cash flow forecast look like?	Stakeholder	Impact on business activity			
	Shareholders (Owners)	 Sets aims and objectives Provide funding and investment to start and expand the business 			
	Employees	 Provide good service which results in repeat purchase Impacts on business reputation if they don't do their job well 			
	Customers	 Buy products and services Make recommendations on how to improve (reviews, research) Recommend the business to friends and on social media 			
	Managers	 Manage employees and monitor quality Communicate the business' needs to employees 			
Remember: a number in brackets means it is a negative (-) number	Suppliers	 Provide the business with the materials it needs Affects the amount that can be sold (e.g. if the supplier cannot provide raw materials on time, production stops) Their prices impact on the business' costs 			
Why is having cash important for a business?The importance of cash to a business:	Local Community	 Support the business by buying its goods and services Object to the business if it has a negative impact on the community / environment 			
 To pay suppliers, overheads and employees To prevent business failure (insolvency) The difference between cash and profit Cash can only be recorded when it has actually been received by the 	Pressure Groups	 Challenges the business' behaviour, such as the packaging it uses Improves employees' conditions, such as health and safety o fair wages Influences customers' opinions of the business 			
 Profit is recorded as soon as the sale is agreed (even though no money may have changed hands) 	The Government	 Can change the amount of tax the business has to pay which impacts on the business' costs Passes new laws that may affect how and what the business does (and impact on costs to make changes) 			

Year 10: GCSE Business	Stakeholders				
What does a cash flow forecast look like?	Stakeholder	Impact on business activity			
	Shareholders (Owners)				
	Employees				
	Customers				
	Managers				
Remember: a number in brackets means it is a negative (-) number	Suppliers				
Why is having cash important for a business?	Local Community				
• - • -	Pressure Groups				
• - • - • -	The Government				

Discuss the impact of pressure groups on a business

Pressure groups highlight the negative activity of a business therefore this can damage the business' company image. This could mean that customers are less likely to buy from the business. Therefore revenue will decrease.

However, if the business changes its behaviour as a result of pressure group activity then their company image will be improved. This may lead to an increase in customers which would lead to higher market share.

Conflict (disagreement) between stakeholders

- Shareholders (Owners) want the highest profit possible
- Employees want the highest wages possible
- Customers want the lowest prices possible
- Managers want the highest bonus possible
- Suppliers want to sell at the highest prices possible
- Local Community want the smallest environmental impact possible
- Pressure Groups want the business to behave in an ethical way
- The Government want the business to follow laws and pay their taxes

Question 1: What are some factors that can lead to the emergence of new business ideas?

Answer: Changes in technology, changes in consumer preferences, and the obsolescence of products and services can all contribute to the emergence of new business ideas.

Question 2: How do new business ideas come about?

Answer: New business ideas can originate from original thinking or by adapting existing products, services, or ideas to meet the needs of the market.

Question 3: What are some risks associated with starting a business?

Answer: Some risks include the possibility of business failure, financial loss, and a lack of security, as entrepreneurs often rely on the performance of their venture for income.

Question 4: What are some rewards that can be obtained from starting a business?

Answer: Starting a business can lead to rewards such as business success, profitability, and independence. Entrepreneurs have the opportunity to make their own decisions and experience higher motivation compared to working under a manager's direction.

Question 5 Explain one possible conflict that may exist between stakeholders.

Answer: Shareholders will want the highest profit possible so that they receive high dividends (share of the profits). However, employees will want the highest wages possible. Paying higher wages would increase the business' costs and therefore (if revenue stays the same) profit would be lower meaning that the shareholders would be unhappy.

Question 6: What does a cash flow forecast typically show?

Answer: A cash flow forecast shows the projected cash inflows and outflows for a business, usually on a monthly basis. It includes the opening balance at the start of each month and the closing balance at the end.

Question 7: Why is having cash important for a business?

Answer: Cash is important for a business because it is necessary to pay suppliers, cover overhead expenses, and compensate employees. It helps prevent business failure or insolvency. It is important to understand that cash and profit are not the same, as cash is recorded only when it is actually received by the business, whereas profit is recorded when a sale is agreed, even if no money has changed hands yet.

Discuss the impact of pressure groups on a business

Conflict (disagreement) between stakeholders

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• _

Question 1: What are some factors that can lead to the emergence of new business ideas?

Answer:

Question 2: How do new business ideas come about? Answer:

Question 3: What are some risks associated with starting a business? Answer:

Question 4: What are some rewards that can be obtained from starting a business? Answer:

Question 5 Explain one possible conflict that may exist between stakeholders. Answer:

Question 6: What does a cash flow forecast typically show? Answer:

Question 7: Why is having cash important for a business? Answer:

Market Segmentation

Grouping the market into groups with shared characteristics.

A business can segment the market in the following ways: Location Demographics Lifestyle Income Age

The competitive environment

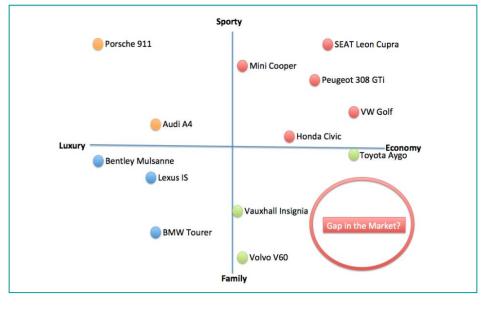
Strengths and weaknesses of competitors can be based on: Price Quality Location Product range Customer service

Impact of competition on business decision making:

New competitor products may make you update and improve your products to keep up. Identifying gaps in the market can provide you with ideas for new products/services. Competitors' pricing may influence your pricing decisions. Competitors' customer service may make you strive to provide superior customer service.

Market Map

Market mapping is a visual representation of the position of different products, brands, or businesses within a particular market. Market maps can be used to identify **a gap in the market** and understand the competition.

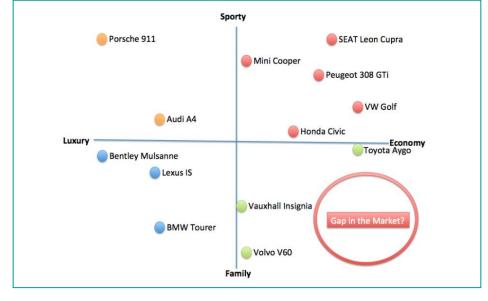


Market Segmentation

The competitive environment

Impact of competition on business decision making:

Market Map



Business Aims and Objectives

Financial Aims and Objectives:

Survival: Achieve break-even and positive cash flow.

Profit: Ensure revenue is more than total cost.

Sales: Achieve a target number of sales over a specific period.

Market Share: Capture a specific percentage of the market.

Financial Security: Build and maintain a reserve fund (money) in case it is needed in the future.

Non-Financial Aims:

Social Objectives: Implement socially responsible practices for example reducing use of plastic packaging, not testing on animals.

Personal Satisfaction: Set personal targets related to joy and satisfaction.

Challenge: Starting up a business is very challenging which some entrepreneurs will thrive on.

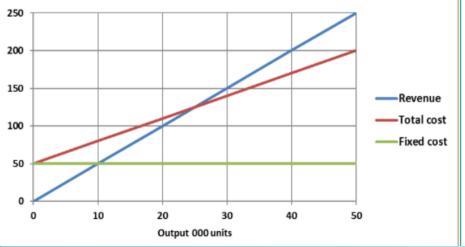
Independence and Control; being responsible for all the business decisions.

Reasons why aims and objectives differ between

businesses:

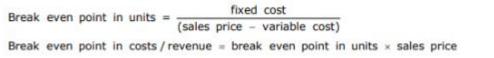
Size and scale of a business: large established businesses may have the aim to dominate the market. Whereas, smaller businesses may focus instead on survival.
Ownership: Businesses with many shareholders may focus on profit. Whereas, a small sole trader may focus on independence and control.

Break Even Level of Output



Break Even Level of output refers to the amount of units that need to be sold to cover all the costs. In this example above, the break even level of output is 25 units as that is the point when the revenue is the same as the total costs.

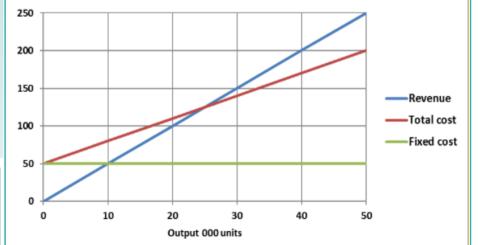
Break even



Business Aims and Objectives

Reasons why aims and objectives differ between businesses:

Break Even Level of Output



Break Even Level of output

Break even

Break even point in units = $\frac{\text{fixed cost}}{(\text{sales price} - \text{variable cost})}$ Break even point in costs / revenue = break even point in units × sales price

Non-Financial Aims:

Margin of Safety is the difference between the break even level of output and the actual level of output. For example, if the actual output was 50 units sold and the break even point happened at 25 units sold, then the margin for safety would be 50 - 25= 25.

Margin of safety

Margin of safety = actual or budgeted sales - break even sales

Sources of Finance for Businesses:

Short-term Sources (need to be paid back relatively quickly):

	Description	Advantage	Disadvantage
Overdraft	Borrowing money from the bank beyond the account balance.	Provides flexibility to cover short- term cash flow gaps.	Interest rates can be high, making it an expensive option.
Trade Credit	Delaying payment to suppliers, extending the time to pay for goods or services.	Allows businesses to delay payments and manage cash flow.	May miss out on discounts that businesses who pay straight away may benefit from.

Interest paid on loans:

Interest (on loans)
Interest (on loans) in % = total repayment - borrowed amount × 100

The options available for a startup and small business

	What does it mean?	Advantages	Disadvantages
Limited Liability	Legal concept where the owners (shareholders or members) of a business entity are not personally responsible for the business's debts and liabilities.	Asset Protection: Owners' personal assets (homes, savings, etc.) are protected from business debts. This may mean they are more likely to take risks.	Complex Legal Requirements: Operating with limited liability often involves more complex legal processes.
Unlimited Liability	A situation where business owners (such as sole proprietors or general partners) are personally responsible for all of the business's debts and liabilities.		Personal Financial Risk: Owners risk personal assets, including savings and property, in the event of business debts or business failure.

Sources of Finance for Businesses:

<u>Short-term Sources (need to be paid back relatively quickly):</u>

Description	Advantage	Disadvantage

Margin of Safety

Margin of safety

Margin of safety = actual or budgeted sales - break even sales

Interest paid on loans:

Interest (on loans)		
Interest (on loans) in % =	total repayment - borrowed amount	~ 100
interest (on loans) in 70 =	borrowed amount	× 100

The options available for a startup and small business

	What does it mean?	Advantages	Disadvantages
Limited Liability			
Unlimited Liability			

Long-term sources of finance (can be paid back over many years or never):

	Description	Advantage	Disadvantage
Personal Savings	Using personal funds to finance the business.	No interest or repayment requirements so fixed costs are not increased.	Limited by the individual's savings (you may not have any savings!)
Venture Capital	Investment from external investors in exchange for equity (shares in the business).	Don't need to pay it back.	Loss of some control and equity (shares) in the business.
Share Capital:	Raising funds by selling shares of the business.	debt so keeps fixed costs low.	Loss of some control and equity (shares) in the business.
Loan Capital	Borrowing money from financial institutions (banks) and repaying with interest.		Interest payments increase fixed costs.
Retained Profit	Saving profits to be reinvested back into the business.	Uses profits for business growth without external borrowing.	Limited to the amount of profit available, this may delay business decisions.
Crowdfunding	Collecting small amounts of money from a large number of people online.		Success depends on the ability to attract many investors.

Factors Influencing Business Location:

Choosing the right location is a critical decision for businesses. Several factors influence business location decisions: Proximity to Market - customers Proximity to labour - workers Proximity to materials and suppliers Proximity to competitors Nature of Business Activity

Marketing Mix:

The marketing mix, often referred to as the 4Ps, is a strategic framework that businesses use to plan and execute their marketing strategies effectively. It encompasses four key elements, each starting with the letter 'P':

Product Price Place Promotion

Long-term sources of finance (can be paid back over many years or never):

	Description	Advantage	Disadvantage
Personal Savings			
Venture Capital			
Share Capital:			
Loan Capital			
Retained Profit			
Crowdfunding			

Marketing Mix:

Types of business ownership	Advantages	Disadvantages
Sole Trader - A business owned and operated by a single individual.	The owner has complete control over business decisions, allowing for quick and flexible decision- making.	Unlimited Liability
Partnership - A business structure where two or more individuals share ownership and responsibilities.	Shared responsibility: Partners can share the workload and expertise, bringing diverse skills and resources to the business.	Unlimited Liability
Private Limited Company (LTD) - A business structure that is a separate legal entity from its owners (shareholders), offering limited liability.	Limited Liability – personal possessions of shareholders (owners) are not at risk to pay business debt.	Private limited companies face more complex legal and regulatory requirements, adding administrative burdens and costs.
Franchise - A business arrangement where one party (franchisor) grants another party (franchisee) the right to use its business model, brand, and support in exchange for fees and ongoing royalties.	Established brand so you have a ready-made customer base. Support from the franchisor.	Franchise fees are very expensive. Less independence as less autonomy to make decisions, e.g. what to sell.

Product Life Cycle Phase	What is happening in this phase?
Research and Development	Expensive phase whereby products are being designed. No revenue from sales. Lots of costs creating prototypes. Negative cash flow at this stage.
Introduction	The product is introduced to the market. Sales are typically low, and businesses focus on creating awareness through advertising (expensive). Competitors can now see your product.
Growth	The product sales begin to rise rapidly. Consumer acceptance increases. Businesses focus on expanding market share, enhancing product features, and building brand loyalty. Important that do not run out of stock at this stage.
Maturity	Stable sales and market saturation. Competition is intense, and businesses may differentiate their products through promotions, pricing strategies, or product variations.
Decline	Sales start to decline due to factors such as changing consumer preferences, technological advancements, or the introduction of newer products.

Product

<u>Design Mix -</u> The balance between three essential elements—Function, Aesthetics, and Cost—in the design and development of products or services. These elements play a crucial role in determining the success and appeal of a product in the market.
 Function: focuses on how well a product or service fulfills its intended purpose.
 Aesthetics: the product's appearance, style, and overall visual appeal.
 Cost: the financial implications associated with the design and production of a product or service.

Product Life Cycle

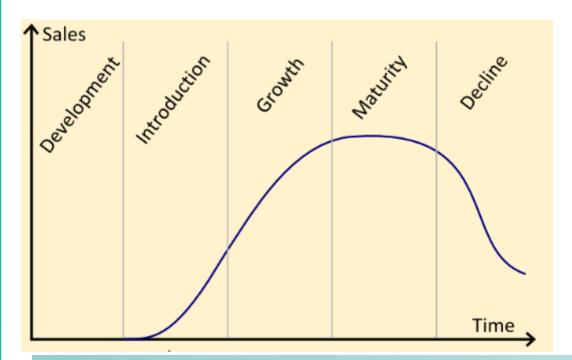
The product life cycle is a concept that describes the stages a product goes through in the market, from its introduction to its eventual decline. Each stage has distinct characteristics and challenges

Types of business ownership	Advantages	Disadvantages

Product Life Cycle Phase	What is happening in this phase?
Research and Development	
Introduction	
Growth	
Maturity	
Decline	

Product

Product Life Cycle



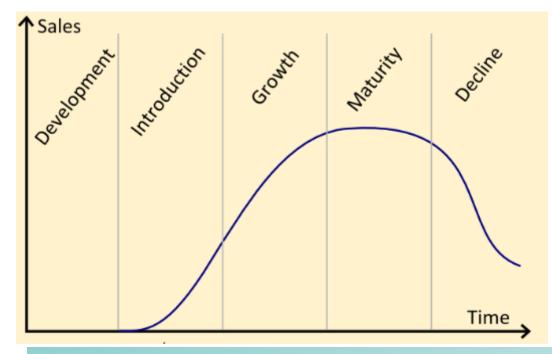
Extension

Used by a business to prolong the life of a product (prevent it from going into decline). Some common examples include: Modifying the product (e.g. new flavours) Expanding the market (e.g. into neighbouring towns) Promotional Campaigns Price promotions Rebrand

<u>Product differentiation -</u> When a business tries to make their products or services stand out from those of their competitors.



Type of differentiation	Why it is important
Competitive advantage	Can lead to increased customer loyalty.
Brand identity	Contributes to the development of a strong brand identity.
Can charge a premium price to customers.	Can increase revenue.
Customer loyalty	If customers perceive a business as providing something special, they are more likely to remain loyal and make repeat purchase s.



Extension



Product differentiation –



Type of differentiation	Why it is important

Price

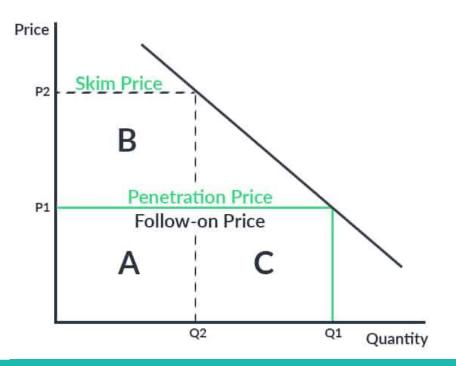
Pricing strategies are approaches businesses use to determine the price of their products or services. Some common pricing strategies:



Type of pricing strategy	Description
Penetration pricing	A business sets a low initial price for a product to quickly gain market share. E.g. new brand of yoghurt.
Skimming pricing	Setting a high initial price for a product, targeting early adopters or customers willing to pay a premium. E.g iPhone.

Influences on Pricing Strategies: Pricing decisions are influenced by various factors that shape a business's overall strategy. Here are key influences on pricing strategies:

Technology Competition Market segmentation Product life cycle

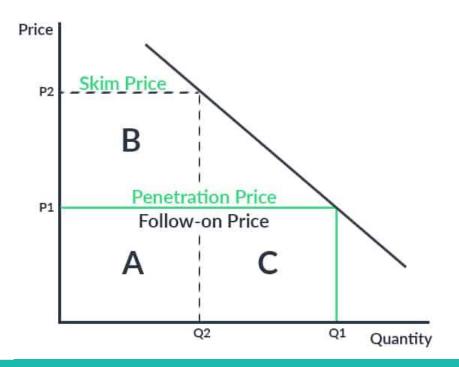


Price



Type of pricing strategy	Description

Influences on Pricing Strategies:



Year 10: GCSE Computer Science		Operators	
Python Programming Language Subset	Arithmetic operators		
Data Types		Arithmetic operator	Meaning
There are 4 data types used in the Python Programming Language:		/	division
 Integer – a whole number (e.g. 5, 71, -23) 		*	multiplication
		**	exponentiation
 Float / Real – a number with a decimal place (e.g. 45.76, 3.1236, - 56.1) 		+	addition
• String – a sequence of characters, that can contain text, symbols and		-	subtraction
numbers, that the computer is not expected to understand (e.g.		//	integer division
"Fred", "The cat sat on the mat", "%\$£1234ABC")		%	modulus
 Boolean – a condition set to either True, or False. 	Relational operators	·	
Data type PLS		Logical operator	Meaning

Data type	
integer	int
real	float
Boolean	bool
character	str

Structured data types

A structured data type is a sequence of items, which themselves are typed. Sequences start with an index of zero.

Data type	Explanation	PLS
string	A sequence of characters	str
array	A sequence of items with the same (homogeneous) data type	list
record	A sequence of items, usually of mixed (heterogenous) data types	list

Logical operator	Meaning
==	equal to
!=	not equal to
>	greater than
>=	greater than or equal to
<	less than
<=	less than or equal to

Logical/Boolean operators

Operator	Meaning
and	both sides of the test must be true to return true
or	either side of the test must be true to return true
not	inverts

Year 10: GCSE Computer Science	Operators		
Python Programming Language Subset	Arithmetic operators		
Data Types		Arithmetic operator	Meaning
There are 4 data types used in the Python Programming Language:		/	
There are 4 data types used in the Fython Frogramming Language.		*	
• -		**	
•		+	
		-	
• -		//	-
		%	
• -	Relational operators		
Data type PLS		Logical operator	Meaning

PLS

Structured data types

A structured data type is a sequence of items, which themselves are typed. Sequences start with an index of zero.

Data type	Explanation	PLS
string		str
array		list
record	i j	list

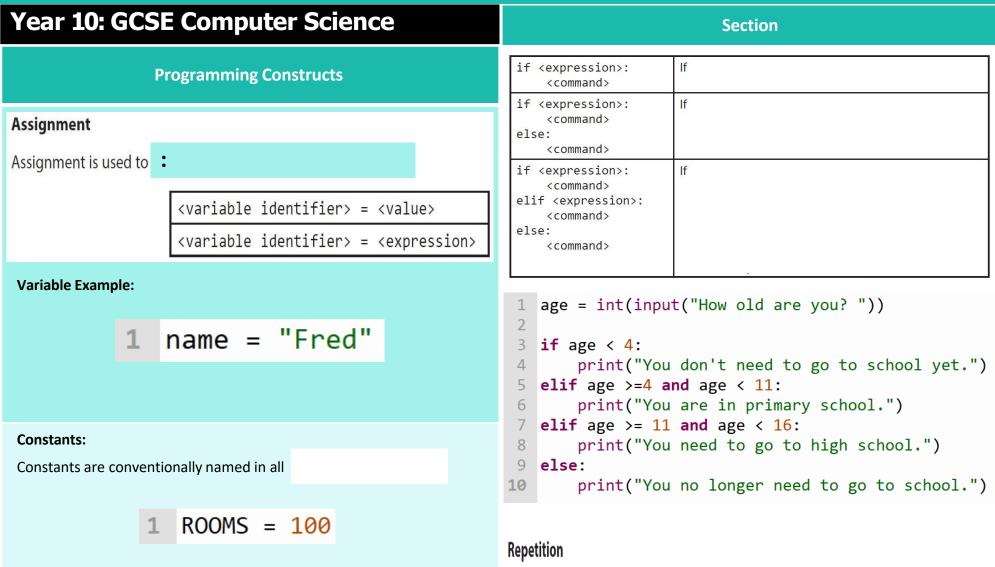
Logical operator	Meaning
==	
!=	
>	-
>=	
<	
<=	

Logical/Boolean operators

Operator	Meaning
and	
or	
not	

Year 10: GCSE Computer Science	Section	
Programming Constructs	if <expression>: If <expression> is true, then command is executed. <command/></expression></expression>	
Assignment Assignment is used to set or change the value of a variable.	if <expression>: If <expression> is true, then first <command/> is <command/> executed, otherwise second <command/> is executed. else: <command/> <command/> If <expression> is true, then first <command/> is</expression></expression></expression>	
<pre><variable identifier=""> = <value> <variable identifier=""> = <expression></expression></variable></value></variable></pre>	if <expression>:If <expression> is true, then first <command/> is<command/>executed, otherwise the second <expression> test iselif <expression>:checked. If true, then second <command/> is executed,<command/>otherwise third <command/> is executed.else:Supports multiple instances of 'elif'.</expression></expression></expression></expression>	
Variable Example: 1 name = "Fred"	<pre>The 'else' is optional with the 'elif'. age = int(input("How old are you? ")) if age < 4: print("You don't need to go to school yet.") elif age >=4 and age < 11: print("You are in primary school.") elif age >= 11 and age < 16: print("You need to go to high school.") else: print("You no longer need to go to school.")</pre>	
Constants: Constants are conventionally named in all uppercase characters . 1 ROOMS = 100		
The value of a variable can change, if necessary, while a program is	Repetition	

running, however the value of a constant will not change while a program is running.



The value of a variable can change, if necessary, while a program is running, however the value of a constant will not change while a program is running.

while <condition>: <command>

Year 10: GCSE Computer Science

Inputs and Outputs

Iteration	

<pre>for <id> in <structure>: <command/></structure></id></pre>	Executes <command/> for each element of a data structure, in one dimension.
for <id> in range (<start>, <stop> <command/></stop></start></id>): Count-controlled loop. Executes <command/> a fixed number of times, based on the numbers generated by the range function. <stop> is required. <start> is optional.</start></stop>
<pre>for <id> in range (<start>, <stop></stop></start></id></pre>	Same as above, except that <step> influences the numbers generated by the range function. <stop> is required. <start> and <step> are optional.</step></start></stop></step>

Iteration Example 1:

The following example of iteration will store each item from the array in the 'name' variable in turn:

```
1 namesList = ["Tina","Bob","Jane","Fred"]
2
3 for name in namesList:
4     print(name)
```

Iteration Example 2:

The following example of iteration will use the index variable as a counter, that will increase by +1 on each loop, starting at 0 and ending when the stop value is reached:

```
1 for index in range(0,11):
2    number = index * 4
3    print(index, "x 4 =",number)
```

Screen and keyboard

print (<item>)</item>	Displays <item> on the screen</item>	
input (<prompt>)</prompt>	Displays <prompt> on the screen and returns the line typed in</prompt>	

1 school = input("What school do you go to? ")
2 print(school,"is a great school.")

Flowcharts

Symbol	Name	Function
	Start/Stop	Represents the beginning (start) and end (stop) of a program.
>	Arrows	Connects the flowchart symbols together and defines the 'flow' of the program.
	Input/Output	Input of digital data or digital output such as on or off, or move forward or backward.
	Process	Pauses the processing of the flowchart for a given number of seconds.
	Decision	Creates a 'branch' in the program with two outcomes. True (yes) or False (no).

Year 10: GCSE Computer Science

Inputs and Outputs

	d> in <structure>: command></structure>	
	d> in range (<start>, <stop>): command></stop></start>	
< S	d> in range (<start>, <stop>, tep>): command></stop></start>	

Iteration

Iteration Example 1:

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Iteration Example 2:

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```
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```

Screen and keyboard

<pre>print (<item>)</item></pre>	
input (<prompt>)</prompt>	

1 school = input("What school do you go to? ")
2 print(school,"is a great school.")

Flowcharts			
Symbol	Name	Function	
	Start/Stop		
	Arrows		
	Input/Output		
	Process		
	Decision		

Year 10: GCSE Computer Science	Questions
Flowchart Algorithm	 State the names of the 4 data types used in the Python programming language and give examples. Complete the table below.
Example : Written Description of the Problem: Write an algorithm that will display the numbers 1 to 10 only.	
 Decomposed Problem: PROCESS: Set number to 1 DECISION: Is number equal to 11? FALSE OUTPUT: Display number, number = number+1 TRUE OUTPUT: Stop 	2. State the type of operator that the examples below belong to.
Flowchart Algorithm:	
Start Number = 1 Number = 11? Ves Stop	 Write the code, in the box below, that would initialise a variable called 'num_1' and you should assign it any suitable integer value.

Year 10: GCSE Computer Science	
Questions	8. Write the code, in the output the 8 times table
4. Write the code, in the box below, that would initialise the constant 'SIDES' and assign it the integer value of 6.	Example output format 1 x 8 = 8 2 x 8 = 16 etc
5. Write the code, in the box below, using selection (an IF Statement), that will ask a user if it is raining, and if the response is yes, it will output the string "Take an umbrella.", and if the response is not yes, it should output the string "Enjoy the outdoors."	 9. Draw a flowchart tha The user will be asked for a set of the numbers are the are equal."
6. Write the code, in the box below, using repetition (a WHILE loop), that will output only the numbers from 10 down to 1 on separate lines.	 If the first number is output "The first nur If the second numbe number is greater the second number is greater the second number is greater the number is gre
7. Write the code, in the box below, using iteration (a FOR loop), that will output each of the strings in the array called animals below.	
animals = ["Dog" , "Cat" , "Horse" , "Cow"]	

he box below, using **iteration** (FOR loop), that will ble from 1×8 , up to 20×8 .

nat for the following **algorithm** for two integers.

- the same, the algorithm should output "The numbers
- is greater than the second, the algorithm should umber is greater than the second number"
- per is greater, the algorithm should output "The second than the first number"

Binary

Binary Addition

What range of numbers can be represented by 8 bits?		
How many bits in a nibble?		4
How many different values can b represented with 8 bits?	be	256

	128	64	32	16	8	4	2	1	
	1	0	1	0	1	1	0	0	= 172
+	0	0	1	0	1	1	1	1	= 47
Answer	1	1	0	1	1	0	1	1	= 219
Sub-Total			2		3	2			

Each binary column doubles in size as we move from right to left.

If the sub-total when adding units in a column is <u>2</u> you leave a 0 behind and carry a 1 into the next column.

If the sub-total when adding units in a column is <u>3</u> you leave a 1 behind and carry a 1 into the next column.

Year 10 GO	CSE Compu	iter scienc	e:		What range of numbers can be represented by 8 bits?						
		2 16	84	2 1	How many b How many d represented	its in a nibble ifferent value					
Binaı	ry Addit	tion]		

Year 10 GCSE Computer science:

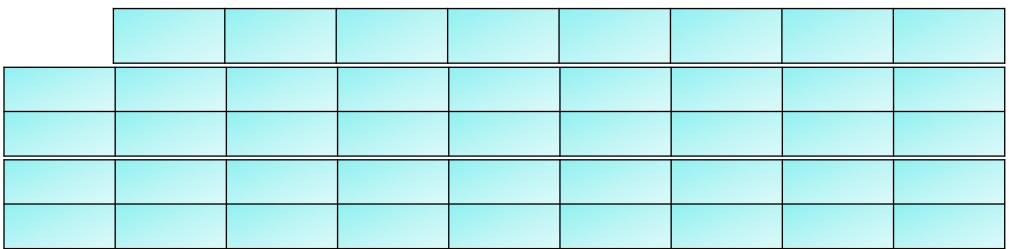
Denary to Binary

	128	64	32	16	8	4	2	1
162 =	1	0	1	0	0	0	1	0
	162-128 = 34		34 - 32 = 2				2 – 2 = 0	
247 =	1	1	1	1	0	1	1	1
	247 - 128 = 119	119 - 64 = 55	55 - 32 = 23	23 - 16 = 7		7 – 4 = 3	3 - 2 = 1	1-1=0

Binary to Denary

128	64	32	16	8	4	2	1	
1	0	0	0	1	1	0	1	= 141
128				128+8 = 136	136+4 = 140		140+1 = 141	
0	1	1	1	0	0	0	1	= 113
	64	64+32 = 96	96+16 = 112				112+1 = 113	

Denary to Binary



Binary to Denary

Year 10 GCSE Computer science:

Overflow Error:

An overflow error is where the result of a binary calculation is too big for the location it is to be stored in. In the example below there is only an 8-bit storage location however the result of the calculation requires 9 bits to contain it:

	1	1	1	0	0	1	1	1	
	1	0	0	0	0	0	0	1	+
1	0	1	1	0	1	0	0	0	

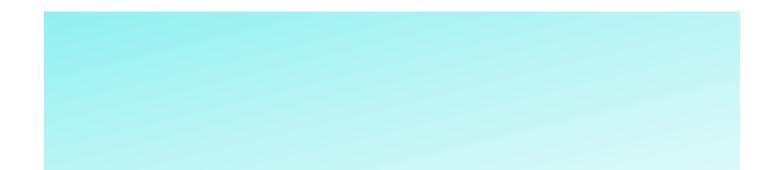
This means that any following calculations, which rely upon this result, will also be incorrect.

Hexadecimal Digits

Hexadecimal Conversion:

Decimal	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Hex	0	1 2 3 4 5 6 7 8 9 A B C D E										Ε	F			
		dig 10 exad	its as – 15	our the l al is	usua etter shor	l dec s A – than	cimal - F ar I d fo i	num e use r bin a	ber s ed. a ry a	syste nd is		wever	ie sam to rep r for			

Hexadecimal Digits



Two's Complement (Representing Negative Numbers)

	Denary	Two's complement binary	number	is represen	ted by finding th	Negative number e furthest 1 to the		
	-20	(Positive) +20 = 0001 0100 (Negative) -20 = 1110 1100		right of the Positive 8-bit binary value (<i>in the</i> <i>example above this is the 3rd digit from the</i> <i>right</i>) and reverse all the values to the left of this furthest 1 to the right (<i>See above</i>				
	ogical Shift Vhen performing a Logi	cal shift to the left (to mult	tiply), or		or +20 and -20).			
	o the right (to divide), si pace/s.	imply insert ' 0' into the ner	W					
l	.eft-shift 00	0 1 0 1 1 1	(decima	al 23)		the effect of ing by 2.		
	= 00		(decima	al 46)	A new 0	is shifted in.		

 Right-shift
 0
 0
 1
 1
 (decimal 23)

 = 0
 0
 1
 1
 1
 (decimal 11)

This has the effect of dividing by 2.

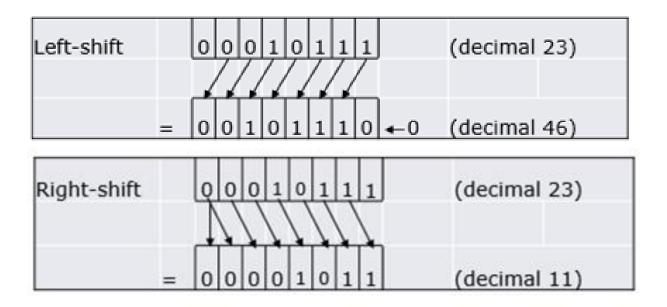
In a logical shift a 0 is **always** inserted.

Two's Complement (Representing Negative Numbers)

Denary				Ти	/0's	S C(omp	ole	me	nt bir	nary	number	
1												-	
Left-shift		0	0	0	1	0	1	1	1	J		(decima	l 23)
		┢	•	×	×	×		_	/ 	1			
	=	0	0	1	0	1	1	1	0	← 0)	(decima	l 46)
Right-shift		0	0	0	1	0	1	1	1			(decima	l 23)
	0~			1	1		/	1					
	=	0	0	0	0	1	0	1	1			(decima	11)

Arithmetic Shift

Arithmetic shifts are used for multiplying Two's Complement signed binary integers, therefore when performing a right shift (*to divide the binary value*), it is important that the value of the 8th bit (*furthest to the left*) is inserted into the new space/s because this will determine whether the number is a positive or negative integer



This has the effect of multiplying by 2.

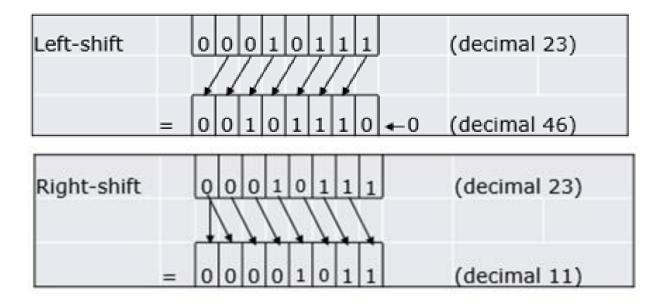
A new 0 is shifted in.

This has the effect of dividing by 2.

The MSB value is <u>always</u> maintained; in this example a 0 is inserted.

Year 10 GCSE Computer science:

Arithmetic Shift



Year 10 GCSE Computer science:

ASCII and Unicode

How Bitmap Images are Represented in Binary

Colour Depth indicates the number of bits used to represent the colour of a picture element. The higher the number of bits used, the greater the range of colours.

the number of bits used, the		
greater the range of colours.		
Each pixel will have location		
(x, y, coordinates) bits		
and colour bits.	Tł	ne

With two colour bits per pixel you can have 4 colours, with 32 colour bits (256 Reds, 256 Blues and 256 Greens) you can have over 16M colours

ASCII	Unicode
The ASCII character set is the standard <u>7-bit binary</u> encoding for the letters, numbers and symbols that computers use (<i>extended</i> <i>ASCII character set uses 8-bit</i> <i>binary</i>). ASCII allows for 256 unique characters (due to 8-bit codes) e.g. 0 - 255	Unicode is an alternate standard for encoding letters, numbers and symbols, which uses <u>16-bit binary</u> encoding. Unicode allows for 65536 unique characters (due to 16-bit codes) Unicode allows for a great deal more characters and symbols than ASCII, due to the fact it uses twice the number of bits.

The **resolution** of an image is based on the number of elements used to represent the full image. The higher the number of elements for a given size, the better the quality of the image (PPI – pixels per square inch). Bitmap images are made up of **Pixels**, which are the smallest elements of a bit-mapped image and the smallest element that can be displayed on a screen.

ASCII and Unicode

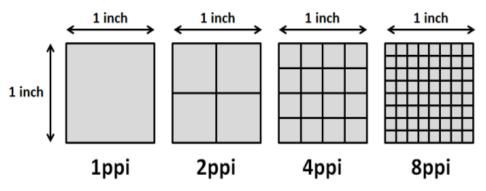
How Bitmap Images are Represented in Binary

ASCII	Unicode

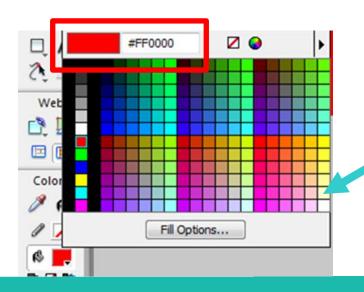


Year 10 GCSE Computer science:

Pixels per inch



The more pixels there are, the sharper and clearer the image will be (but remember the more pixels there are, the bigger the file size too)



Colour Depth

With 1 bit colour depth we can represent 2 colours (Black and White) The 3 Primary colours used in computer programs are Red Green and Blue **Highest Red = FF0000 Highest Green = 00FF00 Highest Blue = 0000FF** Many programs use 256 (0-255) different shades of Red, Green and Blue By combining these colours other colours can be created **256** x **256** x **256** = 16,777,216 colours This is why computer manufactures say "Over 16 Million Colours"

2

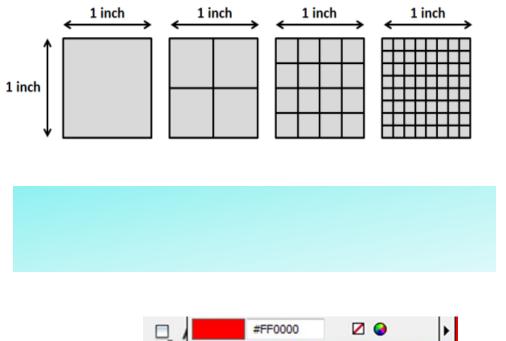
C?

Web

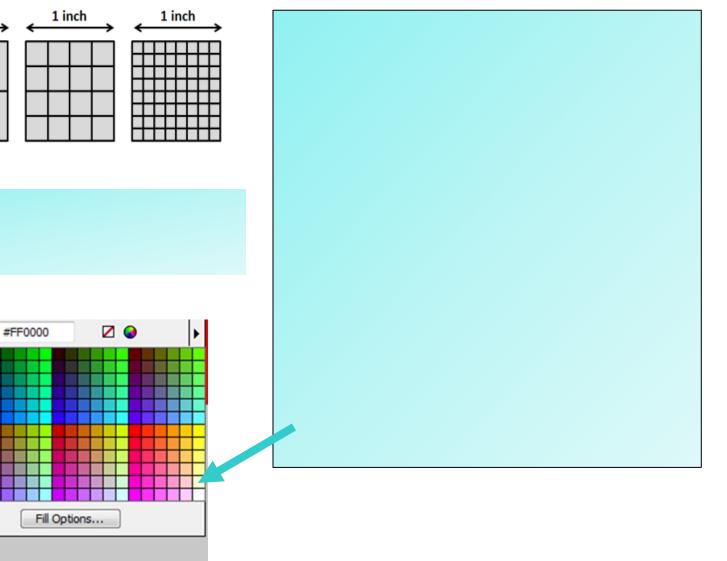
Color

1 ß

Pixels per inch

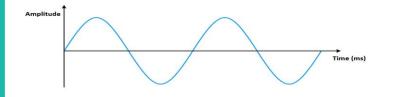


Colour Depth



Analogue to digital

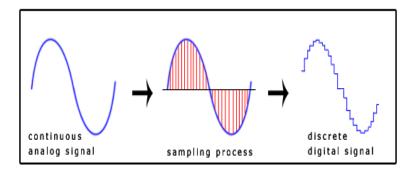
Sound is analogue, a process of digitisation is needed to convert it to a series of binary numbers.



Samples taken at evenly spaced time intervals (fractions of a second) and represented as numerical values. The sampling rate is the number of samples taken per second and is measured in hertz (Hz). A CDquality recording has a sampling rate of 44 Khz, which means that the sound is sampled 44,000 times a second.

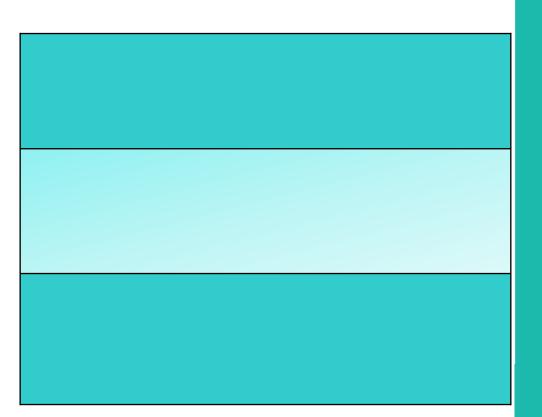
The more bits (**bit depth**) dedicated to representing the sample the better the sound reproduction. 16 bits provide 65,536 possible levels of measurement, as compared to 8 bits, which provide only 256 levels of measurement.

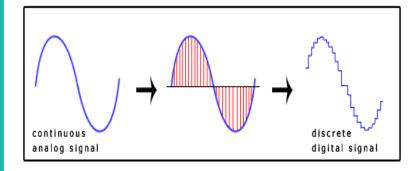
Sample rate and bit depth determine the smoothness and accuracy of the reproduction. However, the higher the quality of the sound, the larger the file size. Sound files are often compressed to reduce the size.





Analogue to digital







Storage Measurement – Bits and Bytes

0 or 1	=	1 Bit(Binary Digit)	
4 Bits	=	a 'nibble'	
8 Bits	=	1 Byte	
1024 Bytes	=	1 Kibibyte (KiB)	
1024 Kibibytes =	1 Meb	1 Mebibyte (MiB)	
1024 Mebibytes	=	1 Gibibyte (GiB)	
1024 Gibibytes=	1 Tebil	byte (TiB)	

Units of measurement

Formula for the number of bytes

1 kibibyte (KB)	= 1024 bytes 1024
-----------------	-------------------

- 1 mebibyte (MB) = 1024 kibibytes 1024×1024 or 1024^2
- 1 gibibyte (GB) = 1024 mebibytes $1024 \times 1024 \times 1024$ or 1024^3
- 1 tebibyte(TB) = 1024 gibibytes 1024 x 1024 x 1024 x 1024 or 1024⁴

Storage Measurement – Bits and Bytes

Units of measurement

Data Storage Measurement – Bits and Bytes

0 or 1	=	1 Bit(Binary Digit)
4 Bits	=	a 'nibble'
8 Bits	=	1 Byte
1024 Bytes	=	1 Kibibyte (KiB)
1024 Kibibytes	=	1 Mebibyte (MiB)
1024 Mebibytes	=	1 Gibibyte (GiB)
1024 Gibibytes	=	1 Tebibyte (TiB)

Data compression

Bitmaps, audio and video files can be very large, compressing data reduces its file size.

Data Transfer - Compression makes data transfer across networks much faster (*less bandwidth required*).

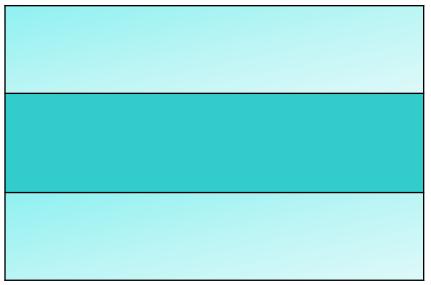
Data Storage – Compression reduces the amount of storage space needed for files (*saves local storage on digital devices*)

Units of storage measurements

Units of measurement	
	Formula for the number of bytes
1 kibibyte (KB) = 1024 bytes	1024
1 mebibyte (MB) = 1024 kibibytes	1024 x 1024 or 1024 ²
1 gibibyte (GB) = 1024 mebibytes	1024 x 1024 x 1024 or 1024 ³
1 tebibyte(TB) = 1024 gibibytes	1024 x 1024 x 1024 x 1024 or 1024 ⁴

Data Storage Measurement – Bits and Bytes

Data compression



Units of storage measurements

Units of measurement	
	Formula for the number of bytes

Lossless and Lossy compression methods

There are two types of compression Lossy and Lossless:

Lossless compression techniques do not remove any of the original data from the image, audio, or video file being compressed, meaning it retains the original quality.

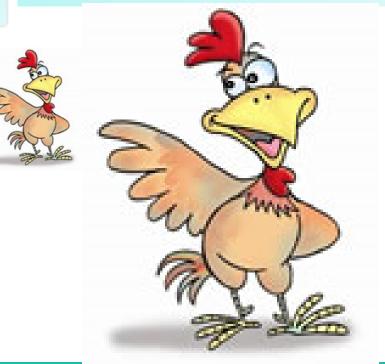
Lossy compression techniques permanently remove some of the data from the original image, audio or video file, meaning it may not retain the original quality. **JPEG and MP3 are examples of lossy compression**.

Lossy file compression types

- Lossy compression methods remove some of the data from an image to compress it even further and reduce the file size of the image.
- Lossy compressed files do not have the same detail as the original and can lose some of the quality.
- Standard JPEG (.jpg) images are a method of Lossy Compression.
- There is an obvious reduction in the image quality, of the chicken on the right, when the size is increased.

Lossless file compression types

- Lossless file compression does not remove any of the data from a file when it is compressed, these file types can have quite large file sizes.
- Run-Length Encoding (RLE) is a Lossless File Compression Method.
- GIF (.gif) images are also a method of Lossless Compression.



Lossless and Lossy compression methods

Lossy file compression types

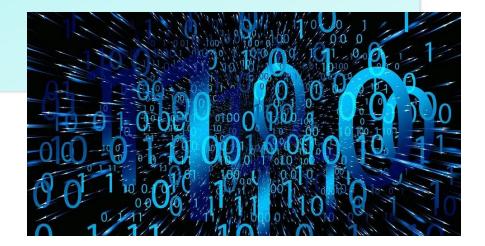
Lossless file compression types





Data storage and data transmission

- Data **storage** is measured in Bytes
- Data **transmission** is measured in <u>bits</u> per second (bps)
- Transfer Time = Number of bits / BPS
- e.g. a data file of 2MiB will take 16 seconds to download on an 8Mbps network connection (because there are 8 bits in a byte)
- Number of bits = 1024 x 1024 x 8 x 2
- Bits per second = 8 x 1000,000



Data storage and data transmission



Research Methods

Media Research Methods

Quantitative data: data collected in the form of numbers, statistics. Large amounts can be easily analysed.

Qualitative data: data collected in the form of people's thoughts and opinions. Gain deeper insights into reasons for choices but much harder to analyse.

Primary Research Methods:

- 1. **Observations**: Actively observing media products and audience behaviours. Example: , monitoring viewers' reactions to a film or watching how people interact with a website interface.
- 2. Discussions: Engaging in conversations with peers to gather a range of different perspectives and insights on media-related topics. Example: discussion on the impact of social media on youth culture.
- **3. Interviews**: Conducting one-on-one or group interviews with target audience members to gain in-depth information about their views and perspectives. Example: asking viewers about their media consumption habits.
- **4. Surveys**: Using questionnaires or online surveys to collect quantitative data from a large number of respondents. Example: surveying viewers about their favourite TV shows and reasons for watching.
- **5. Focus groups**: Bringing together a small group of individuals to participate in a guided discussion. Example: gather feedback from the audience about their specific thoughts and feelings about a new TV show.

Secondary Research Methods:

- **1. Television**: You can watch TV shows or interviews about the media product to understand its production process and the intentions of the creators.
- 2. Magazines: You can read magazine articles or interviews with the creators or critics to gain insights and opinions about the media product.
- **3.** Films: You can watch documentaries or behind-the-scenes features about the making of the media product to learn about its impact and techniques used.
- **4. Internet**: You can search for online reviews, analysis, or fan discussions to gather different perspectives and opinions on the media product.
- 5. Books: You can read books written by experts or scholars that analyse similar media products or explore relevant theories and concepts to gain a deeper understanding and context for your analysis.

Media Research Methods

Type of research	What are the advantages?	What are the disadvantages?
Primary	• _	• -
New information, collected first- hand.	• -	
	• _	• -
	• _	
Secondary	• _	• -
Information that already exists as it has been collected by someone else.		• -
	• -	
		• -

What is quantitative data?

What is qualitative data?

Research Methods

Primary Research Methods:

- 1. What are observations?
- 2. What are discussions?
- 3. What are interviews?
- 4. What are surveys?
- 5. What are focus groups?

Secondary Research Methods:

- 1. How can television be used as a method?
- 2. How can magazines be used?:
- 3. How are films used?
- 4. How can the Internet be used as research?
- 5. How can books be used?

Decoding meaning in media products

decolfine

Semiotics	The study of signs and symbols and what they mean.	
Denotation	The basic or literal meaning of a sign or symbol, what it directly represents. The denotation of a rose is a type of flower with petals, thorns, and a pleasant fragrance.	
Connotation	Connotation all the extra feelings and ideas (hidden meanings) we connect to a sign or symbol. Example : The connotation of a dove often represents peace and purity due to its association with those concepts in various cultures.	
Signs	Used to communicate ideas, concepts, or messages.	
Symbols	Special signs with extra meanings.	
Signifiers	Things we see or hear that carry the meaning of signs or symbols.	
Encoding	When someone creates meaning and attaches messages to signs, like a filmmaker making a movie with a message. Example : Imagine you and your friends are making a funny video together. Each of you decides on the jokes, actions, and expressions to use, which is like encoding your own unique funny message into the video.	
Decoding	When people interpret or understand the messages and meanings in signs or media. Example: when you watch a film or TV show you may pick up on the characters emotions or actions which helps you understand what is happening in the story more easily.	
Anchorage	Using words or other visuals to guide how we interpret an image or media, like a caption giving more information. Example: A caption accompanying a photograph clarifying the context or providing additional information about the image.	
Polysemy	Signs or symbols can have many different meanings or interpretations. Example: The word "bank" can have multiple meanings, such as a financial institution or the edge of a river.	
Intertextuality	When texts (like stories or movies) are connected to each other and have references or ideas from other texts, making the meaning more interesting and complex. Example: the movie "Shrek" containing references and parodies of classic fairy tales like Cinderella, Snow White, and Pinocchio to add depth and humour to the story.	

Year 10: BTEC	Media
	Decoding meaning in media products
What is semiotics?	
Define denotation	
Define connotation	
What do signs do?	
What are symbols?	
What are signifiers?	
What is encoding?	
What is decoding?	
What does anchorage mean?	
What does polysemy mean?	
What is intertextuality?	

Purpose of Media Products

Media products, such as movies, TV shows, advertisements, and articles will have different purposes. The purpose is simply '**the point**' of the media product. The reason why it was created.

	Call to Action	Encouraging the audience to take specific actions or make a change. Examples : Campaigns urging people to recycle, volunteer, or support a cause		To Recount	Sharing personal experiences or stories. Examples: Autobiographies, personal blogs, or vlogs.
	To Shock	Provoking strong emotional reactions, often to draw attention or create a memorable impact. Examples: News stories highlighting shocking events or horror movies aiming to scare viewers.	tions, often to draw attention or mples: News stories highlighting a aiming to scare viewers. To Inform		Providing detailed information about a person, place, or object. Examples : Travel guides, product reviews, or descriptive articles.
	To	Convincing the audience to adopt a particular viewpoint or belief. Examples : Political speeches, advertisements promoting a			Presenting facts, news, or updates to keep the audience knowledgeable. Examples: News articles, weather reports, or educational websites.
-	persuade	Presenting different perspectives on a topic and providing Encourage		Motivating the audience to pursue goals, self-improvement, or positive actions. Examples : Inspirational speeches, self-help books, or motivational videos.	
			To Raise Awareness	Drawing attention to social, environmental, or health issues. Examples: Public service announcements, documentaries on climate change, or charity campaigns.	
	To Explain	Explain Clarifying complex concepts or providing step-by-step instructions. Examples: Educational videos, science documentaries, or instructional articles.		To Intrigue	Engaging the audience's curiosity and keeping them interested. Examples: Mystery novels, movie trailers, or cliff-hanger TV
	То	Promoting a product, service, or event to encourage theToaudience to purchase or participate. Examples: TV commercials,			series.
	Advertise online banners, or social media posts promoting a new movie release.			To Entertain	Providing enjoyment, relaxation, or amusement. Examples: Movies, TV shows, music, or online games.
	To Document	Capturing real events, people, or places for historical or informational purposes. Examples : News reports, historical documentaries, or photojournalism.		To Instruct	Teaching or imparting knowledge and skills. Examples : How-to videos, DIY articles, or cooking recipes.

MEDIA

TELEVISION

NEWSPAPERS

INTERNE

RADIO

MAGAZINES

Purpose of Media Products- Complete below:

	oducts, such as movies, TV shows, advertisements, and articles with the second se		nt purposes.	NEWSPAPERS
Call to Action		To Recount		
To Shock		To Describe		
To persuade		To Inform		
		To Encourage		
To Argue		To Raise Awareness		
To Explain		To Intrigue		
To Advertise		То		
		Entertain		
To Document		To Instruct		

MEDIA

TELEVISION

INTERNET

RADIO

Media Producers

Codes and Conventions

- Codes: Systems of signs and symbols used in media to convey meaning.
- **Conventions**: Established practices or techniques that are commonly used and expected by the audience. Example: A horror film has spooky music and scary characters. A magazine always has a big cover image and a masthead at the top.

Understanding the codes and conventions in media helps us interpret and understand messages effectively. These can include visual cues, storytelling techniques, camera angles, sound effects, and more. Example: you can often tell you are watching a certain genre of film within the first few minutes simply by observing visual clues, music and the types of characters.

1. What is the purpose of media products that aim to "raise awareness"? Provide an example.

The purpose of media products that aim to raise awareness is to draw attention to social, environmental, or health issues. They seek to inform and educate the audience about important topics. An example could be a documentary on the impact of plastic pollution on marine life, urging viewers to take action to protect the oceans.

2. Explain the meaning of "codes and conventions" in the context of media.

Codes are systems of signs and symbols used in media to convey meaning, while conventions are established practices or techniques that are commonly used and expected by the audience. Codes and conventions help shape the way messages are communicated in media, including visual cues, storytelling techniques, camera angles, sound effects, and more.

Types of media producers:

- Media conglomerates: Large corporations that own multiple media outlets and have control over various aspects of the industry. Examples: Comcast Corporation, News Corp
- **Public service broadcasters**: Organisations funded by public resources, with a mandate to provide educational, informative, and culturally enriching content. Examples: BBC, Channel 4
- Independent media producers: Small-scale or individual creators who produce media outside of major corporate structures. Example: A24 is an American independent entertainment company that specialises in film and television production, as well as film distribution, based in Manhattan, New York City.
- Community media organisations: Non-profit or volunteerbased initiatives that focus on serving local communities and promoting community participation. Example: Radio Regan has been on the air in the Manchester area since 1999. The organisation operates 3 full time community radio stations and provides training opportunities for the areas young people and people from disadvantaged areas.



Media Producers

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1. What is the purpose of media products that aim to "raise awareness"? Provide an example.

Types of media producers (describe below):

Media conglomerates:

Public service broadcasters:

Independent media producers:

• Community media organisations:

2. Explain the meaning of "codes and conventions" in the context of media.



Ethos/aims of the media producer:

The ethos/aims of a media producer refers to their guiding principles and values that shape their approach to content creation. This can include a commitment to:

Quality	Media producers who prioritise quality aim to create content that is well-made, engaging, and of high standards, like a filmmaker who focuses on making movies that look and sound amazing.	
Diversity	Media producers committed to diversity make sure that their content represents different cultures, backgrounds, and perspectives, like a TV show that includes characters from various ethnicities and tells stories about people from different walks of life.	
Inclusivity	Inclusive media producers strive to make their content accessible and relatable to a wide range of people, like a website that provides closed captions or subtitles for people who are deaf or hard of hearing.	
Impartiality	Media producers aiming for impartiality present information or stories without taking sides or being biased, like a news outlet that provides different viewpoints on a topic and lets viewers form their own opinions.	
Accessibility	Media producers focused on accessibility make sure their content can be easily accessed by everyone, including people with disabilities, like a website that is designed to be easy to navigate and provides options for larger text or audio descriptions.	
Innovation	Innovative media producers come up with new and creative ideas to make their content exciting and fresh, like a video game that uses virtual reality technology or a movie with ground-breaking special effects.	

How media products fulfil their purpose:

- **Production values**: The use of technologies, costs of production, and style/design contribute to the overall quality and visual/audio experience of a media product.
- **Participants**: Actors, presenters, hosts, directors, and contributors play vital roles in bringing the content to life.
- **Content**: Storylines, characters, featured people, articles, artwork, or gameplay are elements that engage the audience and convey the intended message or experience.
- **Synergy and marketing**: Cross-media links, connections with other media products, and promotional campaigns help reach a wider audience and create buzz.
- **Distribution**: Media products are delivered through various platforms, such as television, cinema, radio, streaming services, or websites.



Ethos/aims of the media producer:

The ethos/aims of a media producer refers to their guiding principles and values that shape their approach to content creation. Define the principles/values below:

	_
Quality	 Participants: Content:
Diversity	Synergy and marketing:
Inclusivity	• Distribution:
Impartiality	Ň
Accessibility	
Innovation	

Explain how these media products fulfil their purpose:

• Production values:

Audience Participation

Audience interpretation refers to the process by which individuals understand and make sense of media messages or content. It involves how individuals perceive, analyse, and assign meaning to the information they receive from various media sources such as television, films, newspapers, social media, etc. Audience interpretation is influenced by several factors:

- **Demographics**: involve characteristics that define audience segments, including age, gender, family status, ethnicity, and socio-economic scale (A, B, C1, C2, D, E). These factors provide insights into the composition and diversity of audiences.
 - **Psychometric Audience Profile**: considers how individuals think and examines their values, attitudes, and lifestyles (VALs). The Young and Rubicam 4Cs model categorises audiences into different segments:

The Aspirer	Are driven by the desire for success, status, and recognition. They strive to achieve their goals and often seek products and media that align with their aspirations.
The Explorer	Are curious, adventurous, and open to new experiences. They actively seek out unique and innovative content, enjoying variety and novelty in their media consumption
The Mainstreamer	Value tradition, conformity, and maintaining social norms. They are likely to engage with popular, widely accepted media products that align with mainstream cultural values.
The Reformer	Are socially and environmentally conscious. They prioritise social change, justice, and equality. They are drawn to media that reflects their values and supports causes they believe in.
The Resigned	Individuals often feel disempowered or marginalised. They may have a negative outlook and may engage with media products that reflect their frustrations or provide an escape from their realities.
The Struggler	Face financial and personal challenges, often living in economically deprived conditions. They may seek media products that offer practical solutions, inspiration, or a sense of hope.
The Succeeder	Have achieved success and are financially secure. They may engage with media that reinforces their achievements, offers luxury and high- quality experiences, or appeals to their refined tastes.

Audience Participation- Define the types below:

Audience interpretation refers to the process by which individuals understand and make sense of media messages or content. It involves how individuals perceive, analyse, and assign meaning to the information they receive from various media sources such as television, films, newspapers, social media, etc. Audience interpretation is influenced by several factors:

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The Aspirer	
The Explorer	
The Mainstreamer	
The Reformer	
The Resigned	
The Struggler	
The Succeeder	

Audience Types				
Mass Audience	A large and diverse audience consuming media products without specific targeting.			
Specialised Audience	A smaller, niche audience with specific interests or characteristics			
Target/Main Audience	The primary intended audience for a media product.			
Secondary AudienceAudiences beyond the primary target, who may al with the product.				
Tertiary Audience	Audiences further removed from the primary target, but still potentially exposed to the product.			

Audience Theories:

Passive Audience Theory: The hypodermic needle model and media effects theory suggest that audiences can be directly influenced by the media, absorbing messages without critical thought.

Stuart Hall's Reception Theory: Recognizes that media producers encode preferred readings into products, but audiences respond differently. Reception theory identifies three different modes of audience response:

- Dominant/Preferred Reading: Some audiences interpret media products in line with the intended message of the producer. They accept and reinforce the dominant or preferred meaning encoded in the media text.
- **Negotiated Reading**: Other audiences negotiate their interpretation of media products, combining elements of agreement and resistance. They acknowledge some aspects of the intended message but also bring their own perspectives and values into the interpretation.
- **Oppositional Reading**: Certain audiences interpret media products in direct opposition to the intended message of the producer. They reject or challenge the dominant meaning encoded in the media text, bringing their own alternative interpretations and viewpoints.

Audience Engagement Theory:

Recognizes that audiences can consume media products passively or actively, depending on factors such as the situation, social context, and level of audience involvement. This includes primary, secondary, and tertiary levels of engagement.



Audience Types- describe below:		Define Dominant/Preferred Reading:
Mass Audience		Denne Dominant, Freierreu Reaung.
Specialised Audience		Define Negotiated Reading:
Target/Main Audience		
Secondary Audience		Define Oppositional Reading:
Tertiary Audience		What is the Audience Engagement Theory:
Audience The	ories:	
What is Passive	Audience Theory?	
What is Stuart Hall's Reception Theory ?		

Blumler and Katz	Uses and Gratification Theory

This theory suggests that audiences actively choose and engage with media products based on their personal needs and desires. This includes:

Information	People seek media to acquire knowledge, stay informed about current events, and satisfy their curiosity. They use media to gather information on various topics of interest, such as news, weather updates, educational content, or	
	advice.	D p
Personal IdentityIndividuals use media to shape their self-perception and reinforce their personal values and beliefs. They seek content that reflects and reinforces their identities, such television shows, movies, or social media platforms that align with their interests, cultural background, or personal ideologies.		ct SI A pi di m
Entertainment	Media serves as a source of relaxation, escapism, and amusement. People use media to entertain themselves, enjoy fictional narratives, engage in leisure activities, or simply have a good time. Examples include watching movies, playing video games, or listening to music.	Ci ti Yi e: "E Si
Social interaction Media enables social connection and facilitates communication between individuals. People use med interact with others, maintain relationships, and enga social communities. This includes social media platfor online forums, video conferencing tools, or even tradi forms of media like newspapers or television program that promote social discussion.		O ai R T T S S S ''

Genre

Genre is a way to categorise different types of stories or media based on similar themes, settings, or styles, like adventure, mystery, or fantasy. It is often easy to spot products from different genres because they generally have similar characteristics. Example: Some generic characteristics of fantasy stories include magical or imaginary elements, such as wizards, mythical creatures, and enchanted worlds. The top 5 movie genres are:

Drama: These are movies that tell serious and emotional stories about beople's lives. They make you feel different emotions and show how characters deal with their problems. Some examples are "The Shawshank Redemption," "Schindler's List," and "The Godfather."

Action: These movies are all about excitement! They have lots of fastpaced scenes, cool stunts, and big fights. You'll see brave heroes doing daring things and going on adventures. Some examples are James Bond movies, "Mission: Impossible," and "Mad Max: Fury Road."

Comedy: These movies are meant to make you laugh and have a good time. They tell funny stories and have silly jokes and funny characters. You'll find yourself giggling and smiling while watching them. Some examples are "Anchorman: The Legend of Ron Burgundy," "Bridesmaids," and "Superbad."

Science Fiction: These movies take you to different worlds and show amazing futuristic things. They often have cool technology, space travel, or robots. They make you think about what could happen in the future and explore interesting ideas. Some examples are "Star Wars," "Blade Runner," and "The Matrix."

Thriller/Suspense: These movies keep you on the edge of your seat! They have thrilling and suspenseful stories with lots of twists and surprises. You'll feel excited and curious to know what happens next. Some examples are "Psycho," "The Silence of the Lambs," and "Inception."

Blumler and Katz Uses and Gratification Theory		Genre
This theory suggests that audiences actively choose and engage with media products based on their personal needs and desires. This includes:		Describe the characteristics of the top 5 movie genres below: Drama:
Information		Action:
Personal Identity		Comedy:
Entertainment		Science Fiction:
Social interaction		Thriller/Suspense:

Understanding Narrative Elements in Media

Storytelling devices: Storytelling devices are tools that storytellers use to make their stories interesting and exciting. These tools help them tell the story in a way that captures the audience's attention and keeps them engaged.

Various techniques enhance storytelling, such as;

Foreshadowing	Hinting at future events	
Red Herrings	Misleading clues	
Subplots	Secondary story lines	
Flashbacks/forwards	Narrative jumps in time	
Parallel action	Intercutting between multiple storylines	
Enigmas	Mysterious elements	
Cliffhangers	Suspenseful endings	



Storytelling in Non-Fiction:

- Inverted pyramid structure: Non-fiction storytelling often follows a structure where the most important information is presented first (who? what? where? when? why? how?) in the lead, followed by supporting details and quotations in the body, and additional related information in the tail.
- Storytelling devices: Non-fiction storytelling may involve interviews/quotations with people involved, experts, or members of the public, facts and figures to support the narrative, and the use of language to engage and inform the audience.

Narrative Structures

Narrative structures refer to the organisation and arrangement of elements within a story or narrative. It encompasses how the story is constructed, how events unfold, and how the plot is organised to create a coherent and engaging experience for the audience or readers.

Linear: A straightforward narrative progression from beginning to end, following a chronological order.

Non-linear: The narrative is presented out of chronological order, using techniques like flashbacks or parallel storylines.

Open/Closed: Open narratives leave room for interpretation or unresolved elements, while closed narratives provide a clear resolution.

Single/Multi-strand: Single-strand narratives focus on a single main storyline, while multi-strand narratives involve multiple interconnected storylines.

Todorov: Had a theory for structuring engaging narratives. He said that all stories go through this cycle: equilibrium, disruption, recognition, repair and new equilibrium.

Foreshadowing

Understanding Narrative Elements in Media

Storytelling devices: Storytelling devices are tools that storytellers use to make their stories interesting and exciting. These tools help them tell the story in a way that captures the audience's attention and keeps them engaged.

Various techniques enhance storytelling, such as;

Storytelling in Non-Fiction:

- What is the inverted pyramid structure?
- What are storytelling devices?

Narrative Structures- define below:

Narrative structures refer to the organisation and arrangement of elements within a story or narrative. It encompasses how the story is constructed, how events unfold, and how the plot is organised to create a coherent and engaging experience for the audience or readers.



Point of View (POV)

POV refers to the perspective or vantage point from which the story is presented or narrated. It represents the lens through which the events, characters, and emotions of the story are conveyed to the audience or readers.

Subjective	The subjective camera angle renders the audience an active participant of the event. Either by seeing the event through the character's eyes. Or by trading places with another person in the picture (e.g., first-person) This reflects their thoughts, emotions, and biases.		
Objective	Objective camera angle provides a side-line view of the action. Through the objective viewpoint, the audience looks on, perhaps from the eyes of an unseen observer. Example: In a film, positioned within a passing character e.g. a random person within a crowd looking at the action.		
Privilege Spectator	An external perspective that provides insight into the thoughts and actions of multiple characters. Example: In a film you could be positioned high up (like a fly on the wall) and you get to witness something that none of the other characters can see.		
Characterisation			
Character development : Characters grow and change. Complex characters have strengths, weaknesses, and flaws. They face challenges, learn, and transform. Character arc shows the journey, growth, and evolving relationships.			
Hero/Protagonist	/Protagonist The main character who sets out on a journey or quest.		
Villain/Antagonist	Villain/Antagonist The character who opposes or creates conflicts for the hero.		
Donor/Provider	Donor/Provider The character who gives the hero a magical object, information, or assistance to aid their quest.		
Helper	A character who assists the hero throughout their journey.		
Princess/Damsel	The character in need of rescue or with whom the hero seeks a relationship.		
False Hero	A character initially believed to be the hero but later revealed as deceptive or unworthy		

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Subjective		
Objective		
Privilege Spectator		
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Hero/Protagonist		
Villain/Antagonist		
Donor/Provider		
Helper		
Princess/Damsel		
False Hero		

Media Representation and Perspectives

Representation in the media is how people, places, issues, and events are shown. Here are some important points to remember:

1. Audience Positioning and Perspective:

- Media can shape how we see and think about things.
- Different perspectives can influence our understanding of a story.
- For example, a news report might focus on different angles depending on the intended audience.

2. Audience Identification:

- Media tries to make us relate to characters or situations.
- We may see ourselves in the heroes or villains of a story.
- For example, a movie might have a young hero we can look up to and connect with.

3. Use of Stereotyping:

- Stereotyping is when groups of people are shown in simplified or exaggerated ways.
- It can create biases and unfair judgments.
- For example, a TV show might show a certain group always behaving in a certain way, which isn't true for everyone.

4. Positive and Negative Representations:

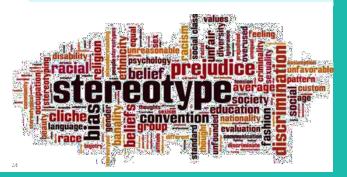
- Media can show people, places, and events in positive or negative ways.
- Positive representations can inspire and uplift us.
- Negative representations can reinforce stereotypes and hurtful ideas.
- For example, a magazine might portray a diverse group of friends having fun together, promoting inclusivity.

How can media products position the audience and influence their beliefs and attitudes?

Media products can position the audience through storytelling techniques, camera angles, music choices, and persuasive messaging. By appealing to emotions, presenting certain viewpoints, and shaping narratives, media can shape the audience's beliefs, values, and attitudes.

What are the consequences of stereotyping in media representations?

Stereotyping in media can lead to unfair judgments, perpetuate harmful biases, and create misunderstandings about certain groups of people. It can contribute to discrimination, marginalisation, and the reinforcement of negative stereotypes, affecting individuals and communities negatively.



Media Representation and Perspectives

Representation in the media is how people, places, issues, and events are shown. What are the important tings to remember?

- **1. Audience Positioning and Perspective:**
- _
- _

2. Audience Identification:

- -
- -
- _

3. Use of Stereotyping:

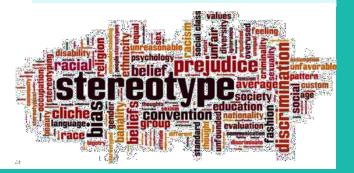
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- -
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4. Positive and Negative Representations:

- -
- -
- -
- _

How can media products position the audience and influence their beliefs and attitudes?

What are the consequences of stereotyping in media representations?



Media Production Techniques

Mise en Scène: refers to the arrangement of visual elements within a scene in media production. It includes various components that contribute to the overall look and feel of a scene. Top 5 components of Mise en Scène:

Setting	Setting This is where the scene happens, like a place or environment. It includes things like buildings, landscapes, or inside spaces. The setting helps create the look and feel of the scene.		
Costume and MakeupThis is about the clothes, accessories, and makeup that the characters wear. It shows what they look like and helps us understand their personality and role in the story.			
Lighting This is how the scene is lit up. Different types of lighting can make things look different and create different moods. For example, bright lighting can make things feel happy, while dark lighting can make things feel mysterious or scary.			
Props and ObjectsThese are the things that the characters use or have around them in the scene. Props can give us important clues, show what time period the story is in, or help tell the story in othe ways.			
Acting and Performance This is about how the actors act out their characters. They us their faces, bodies, and emotions to bring the characters to life. The way they talk, move, and express themselves helps make the scene more interesting and believable.			

Lighting



Low key	This kind of lighting makes the scene look dramatic and mysterious. It uses strong contrasts between light and dark.	
High key	This lighting makes the scene bright and evenly lit. It's often used in happy or funny scenes.	
Back	When the light comes from behind the subject, it creates a special effect. It makes the subject look like they have a glowing halo around them and emphasises their shape.	
Side	This is when the light comes from the side. It adds depth to the scene and makes things look more textured.	
Soft	Soft lighting makes the scene look gentle and diffused. It reduces harsh shadows and makes people look nicer.	
Hard	Hard Hard lighting makes the scene look strong and direct. It creates clear, sharp shadows and a more intense feeling.	
Realistic	Realistic This lighting tries to look like natural light sources, making the scene feel real and authentic.	
Ambient	This is the general light that fills up the whole scene. It helps set the mood or show where the scene is taking place.	
Expressive	ive This lighting is used to create specific feelings or emotions in the scene. It adds to the story and makes it more exciting.	

Year 10: BTEC Media **Media Production Techniques** Mise en Scène: refers to the arrangement of visual elements within a scene in media production. It includes various components that Lighting contribute to the overall look and feel of a scene. Describe below the top 5 components of Mise en Scène? Low key Setting **High key Costume and** Back Makeup Side Lighting Soft Hard **Props and** Objects Realistic Ambient Acting and Performance Expressive

Media Production Techniques

Camerawork		Use of Sound	
Low-angled shot	When the camera is below the subject, it makes them look really powerful, strong, or scary.	Diegetic	This is the sound that comes from the world of the story. It includes things like the characters talking or making sounds in the movie or show.
Extreme close up	This is when the camera zooms in really close to show a small detail of something. It makes that detail seem really important or intense.	Non-diegetic	This is sound that doesn't come from the story world. It includes background music or a voice that talks to us but the characters can't hear.
Long shot	When the camera is far away, it captures the whole scene or subject. It helps us understand where everything is happening and how big things are.	Sound effects	These are special sounds that are added to make the scene more exciting or to create certain feelings. They are not real sounds that were recorded during filming.
Medium shot	This shot shows the subject from the waist up. It's a good balance between being close enough to see details and far enough to understand the surroundings.	Sound mixing	This is when different sounds are combined and adjusted so that they sound good together. It's like making sure all the sounds are at the right volume and can be heard clearly.
	This is when the camera is at the same height as the subject's	Sound bridge	This is when the sound from one scene continues into the next scene. It helps the scenes flow smoothly together.
Eye level shot	eyes. It helps us see things from a neutral and relatable perspective.	Ambient	These are the sounds that you would hear in the background of a scene. They help create the feeling of being in that place.
High angle shot	The camera is positioned above the subject, making them look small, weak, or in a vulnerable position.	Synchronised	This is when the sound matches what you see on the screen. For example, if a character is walking, you will hear their footsteps. It makes everything feel more real.
Point of view shot	This shot shows the scene from the character's perspective. It makes us feel like we're seeing what the character sees and experiencing the scene through their eyes.	Voice over	This is when a voice speaks over the movie or show but you don't see who is talking. It's like someone is telling you extra information or giving their thoughts.

Media Production Techniques Camerawork **Use of Sound** Low-angled Diegetic shot Extreme Non-diegetic close up Sound effects Long shot Sound mixing Medium shot Sound bridge Eye level shot Ambient High angle shot Synchronised Point of view Voice over shot



Editing Techniques

Cut: This is when one shot is quickly replaced by another shot. It's like changing from one picture to another really fast.

Fade In: This is when a scene gradually appears on the screen. It starts from a black screen and gets brighter until you can see the scene clearly.

Fade Out: This is the opposite of fade in. It's when a scene slowly disappears from the screen. It goes from bright to dark until it's all black.

Dissolve: This is when one shot fades away while another shot gradually appears. It's like the two shots blend together smoothly.

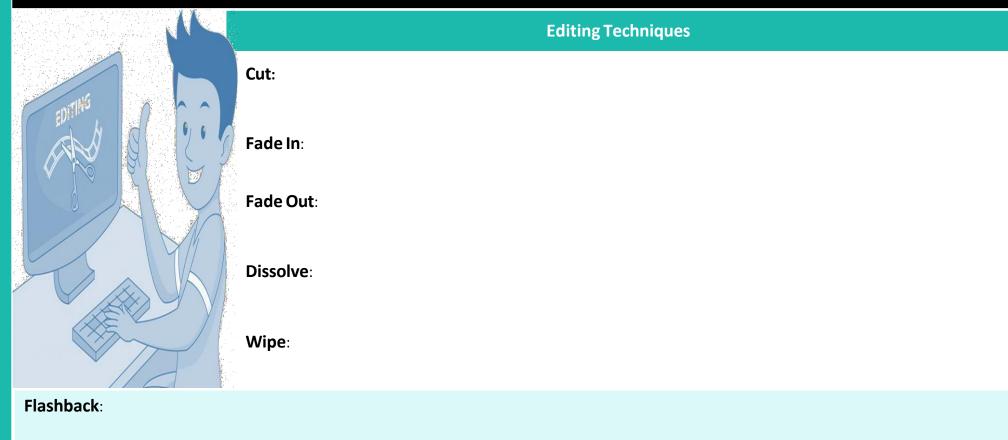
Wipe: In this editing technique, the next shot moves across the screen and "wipes away" the previous shot, revealing the new scene.

Flashback: This is when the story pauses and shows a scene from the past. It helps us understand something that happened before the current time in the story.

Shot-Reverse-Shot: This is when the camera goes back and forth between two characters who are talking to each other. It shows their reactions and interactions during the conversation.

Cross Cutting: This is when the movie or show cuts between two or more different scenes happening at the same time. It can create suspense or show how the scenes are connected to each other.

Eyeline Match: This editing technique connects what a character is looking at with the next shot showing what they are seeing. It helps us understand their point of view and what they are paying attention to.



Shot-Reverse-Shot:

Cross Cutting:

Eyeline Match:

Year 10 GCSE Media:

Media Sectors

Sector	Examples		
Audio/Moving image	TV, radio, films		
Publishing	Magazines, billboards, posters, flyers, newspapers		
Interactive	Apps, social media, games, websites		

Purpose

Purpose examples	
To entertain	To raise awareness
To advertise	To shock
To inform	To instruct
To explain	To document

Media Institutions

Type of institution	Description	
Media conglomerate	Large corporations that own multiple media outlets.	
Public service broadcaster	Organisations funded by public resources.	
Independent media producers	Small-scale or individual creators who produce media.	
Community Media Organisations	Non-profit or volunteer-based initiatives that focus on serving local communities and promoting community participation.	

Definition: Call to Action: Encouraging the audience to take specific actions or make a change.

Audiences Types

Type of audience	Description
Mass audience	A big group of people who like or enjoy the same things.
Target/ main audience	A group of people that a media product is made for or meant to appeal to the most.
Secondary audience	Includes people who aren't the main target but still have some interest or connection to the media product.

Audience

Demographics refer to specific characteristics of a population or target audience.

Demographic characteristics:

Age Gender Family status Ethnicity socio-economic scale Interests Nationality

Year 10 GCSE Media:

Media Sectors

Sector	Examples	

Purpose

Purpose examples	
To entertain	
To advertise	
To inform	
To explain	

Media Institutions

Audiences Types

	Type of	Description		
	institution		Type of audience	Description
	Media conglomerate		Mass audience	
	Public service broadcaster		Target/ main audience Secondary audience	
	Independent media producers			
	Community Media Organisations			
			Audience	
				efer to specific characteristics of target audience.
	Definition: to Action: Encouraging the audience to take specific actions or make a		Demographic characteristics:	

Audience Socio Economic Scale

Audience Psychometrics

Socio Economic Group	Description
A (Upper Class)	High income, top-level professionals, executives, business owners. Advanced education.
B (Upper Middle Class)	White-collar professionals, managers, successful entrepreneurs. Above-average income and education.
C1 (Lower Middle Class)	Office workers, lower-level managers, small business owners. Moderate income and education.
C2 (Skilled Working Class)	Skilled workers, tradespeople, supervisors. Average income and education.
D (Working Class)	Manual workers, laborers, routine jobs. Limited education, moderate income.
E (Lower Class)	Unskilled workers, unemployed, low-income households. Limited education and financial resources.

Psychometric	Description
The Aspirer	Are driven by the desire for success, status, and recognition.
The Explorer	Are curious, adventurous, and open to new experiences.
The Mainstreamer	Value tradition, conformity, and maintaining social norms.
The Reformer	Are socially and environmentally conscious.
The Resigned	Individuals often feel disempowered or marginalised.
The Struggler	Face financial and personal challenges, often living in economically deprived conditions.
The Succeeder	Have achieved success and are financially secure.

Audience Socio Economic Scale

Audience Psychometrics

Socio Economic Group	Description	Psychometric	Description
A (Upper Class)		The Aspirer	
D (Upper Middle		The Explorer	
B (Upper Middle Class)		The Mainstreamer	
C1 (Lower Middle Class)		The Reformer	
C2 (Skilled Working Class)		The Resigned	
		The Struggler	
D (Working Class)		The Succeeder	
E (Lower Class)			

Stuart Hall's Reception Theory

Audience Uses and Gratifications

This theory suggests that audiences actively choose and engage with media products based on their personal needs and desires. This includes:

Information	People use media to learn stuff, like what's happening in the world, or to find out about things they're interested in.
Personal Identity	Media helps people show who they are and what they believe in.
Entertainment	Media is a way for people to relax and have a good time.
Social Interaction	Media also helps people talk to each other and stay connected.

Reception theory identifies three different audience response:

Dominant/Pref erred Reading	The audience interpret the meaning of the product exactly like the media producer intended.
Negotiated Reading:	An audience that acknowledges some aspects of the intended message but also bring their own perspectives and values into the interpretation.
Oppositional Reading:	The audience interpret media products in direct opposition to the intended message of the producer. They reject or challenge the dominant meaning encoded in the media text.

Key Terms	Description
Semiotics	The study of signs and symbols and what they mean
Denotation	Is like the basic or literal meaning of a sign or symbol, what it directly represents
Connotation	Is all the extra feelings and ideas (hidden meanings) we connect to a sign or symbol.
Encoding	Is when someone creates meaning and attaches message s to signs, like a filmmaker making a movie with a message.
Decoding	Is when the audience interprets or understands the messages and meanings in signs or media

Stuart Hall's Reception Theory

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Entertainment	
Social Interaction	

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Dominant/Pref erred Reading	
Negotiated Reading:	
Oppositional Reading:	

Key Terms	Description
Semiotics	
Denotation	
Connotation	
Encoding	
Decoding	

Genre

Genre is a way to categorise different types of stories or media based on similar themes, settings, or styles. It is often easy to spot products from different genres because they generally have similar characteristics.

Genre examples
Drama
Action
Comedy
Science Fiction
Thriller/ Suspense

Genre Key term	Description
Sub-Genres	Within most genres we can find sub genres, for example within Horror we could find 'Slasher'.
Hybrids	A hybrid genre is a genre which blends themes and elements from two or more different genres, for example action/romance.
Subverting Generic Conventions (subversion)	When media producers don't do what is expected of that genre. For example, a romantic film where the couple actually don't stay together and split up at the end.
Genre Iconography	Consists of recurring symbolic images that carry meaning from film to film. What do you expect to see/hear?
Repetition	TV programs, magazines, or websites often conform to established generic codes and conventions to cater to audience expectations and familiarise them with the content.
Difference	Introducing elements of originality is crucial to avoid becoming repetitive and boring.

Genre

Genre is a way to	different types of stories or		
media based on similar theme	s, settings, or It is		
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because they generally have similar characteristics.			

Genre examples

Genre Key term	Description
Sub-Genres	
Hybrids	
Subverting Generic Conventions (subversion)	
Genre Iconography	
Repetition	
Difference	

Narrative: Themes

Themes are the central concepts or topics that the media creator seeks to convey. Examples include:

- Alienation The effects of, the loneliness of, to cure it.
- **Betrayal** the pain of, in love and friendship.
- **Coming of age** loss of innocence.
- **Escape** from life, routine, prison, family pressures.
- **Death** how to escape, facing, what happens after, consequences of.
- Fear driven by, dealing with, conquering.
- **Freedom** loss of, gaining, handling, fight for.

Narrative: Setting

Visual Design	Media producers create a special look for the scene such as what people wear, and the things around them.
Sound design	Media producers add sounds and music to make us feel like we're really in that place and of that time.
Set dressing	Media producers carefully find objects and furniture etc that make us believe it is from that time or place.
Lighting	Media producers use different lights to create a certain mood or feeling in the place.

Narrative: Todorov's Theory

Todorov discovered that narratives moved forward in a chronological order with one action following after another.

What happens

A state of equilibrium (all is as it should be)

An action or character disrupts that equilibrium.

A quest to restore the equilibrium begins. There is recognition that the disorder has occurred.

An attempt to repair the damage of the disruption.

Resolution occurs and equilibrium is restored.

Narrative: Characterisation

Character Type	Description
Hero	Undertakes a journey or a quest
Villain	Attempts to thwart or kill the hero
Donor	Gives the hero advice or a useful object
Helper	A friend who helps the hero in their quest
Princess	Motivation and reward for the quest
Dispatcher	Sends the hero on their quest

Narrative: Themes

Themes are the central concepts or topics that the media creator seeks to convey. Examples include:

Narrative: Setting

Visual Design	
Sound design	
Set dressing	
Lighting	

Narrative: Todorov's Theory

Todorov discovered that narratives moved forward in a chronological order with one action following after another.

What happens	

Narrative: Characterisation

Character Type	Description
Hero	
Villain	
Donor	
Helper	
Princess	
Dispatcher	

Narrative: Storytelling Devices

Foreshadowing	Hinting at future events
Red Herrings	Misleading clues
Subplots	Secondary storylines
Flashbacks/Forwards	Narrative jumps in time
Cliffhangers	Suspenseful endings
Chekhov's Gun	Something insignificant becomes very important later on.

Narrative Structures

Narrative structures refer to the organisation and arrangement of elements within a story or narrative.

Structure	Description
linear	where the story is told in order and a new equilibrium arrived on at the end
non-linear	where events are told out of sequence
circular	where the story ends where it began – ie there has been no change to the equilibrium
open	narratives, where there is no resolution by the end
closed	narratives, where the story is resolved
single-strand	where the narrative follows just one storyline
multi-strand	where there are different interwoven stories

Representation

Audience positioning and perspective:	Media can shape how we see and think about things. Different perspectives can influence our understanding of a story.
Audience identification:	Media tries to make us relate to characters or situations. We may see ourselves in the heroes or villains of a story.
Use of Stereotyping:	Stereotyping is when groups of people are shown in simplified or exaggerated ways. It can create biases and unfair judgments.
Positive and Negative Representations:	Media can show people, places, and events in positive or negative ways. Positive representations can inspire and uplift us. Negative representations can reinforce stereotypes and hurtful ideas.

Narrative: Storytelling Devices

Foreshadowing	Hinting at future events
Red Herrings	
Subplots	
Flashbacks/Forwards	
Cliffhangers	
Chekhov's Gun	

Narrative Structures

Narrative structures refer to the organisation and arrangement of elements within a story or narrative.

Structure	Description
linear	
non-linear	
circular	
open	
closed	
single-strand	
multi-strand	

Representation

Audience positioning and perspective:	
Audience identification:	
Use of Stereotyping:	
Positive and Negative Representations:	

Media production techniques: camerawork

Shot Type	Description
Low Angled Shot	Camera positioned below the subject, portraying them as powerful, strong, or scary.
Extreme Close-up	Camera zooms in very close to emphasize a small detail, making it appear significant or intense.
Long Shot	Camera placed far away to capture the entire scene or subject, providing context and showcasing the overall setting and scale.
Medium Shot	Shot displaying the subject from the waist up, striking a balance between showing details and offering a broader view of the surroundings.
High Angle Shot	Camera positioned above the subject, depicting them as small, weak, or in a vulnerable position.



Media production techniques: sound

Term	Description
Diegetic Sound	Sound originating from the world of the story, including characters talking or making sounds in the movie or show.
Non-Diegetic Sound	Sound that doesn't come from the story world, such as background music or a voice that talks to the audience but isn't heard by the characters.
Sound Effects	Special sounds added to enhance scenes, creating excitement or specific emotions. These sounds are not recorded during filming.
Music	Important in conveying emotions and enhancing storytelling in movies and shows, acting like another character in the narrative.

Media Production Techniques: Mise en Scene

Mise en Scene means 'what is in the scene'. It refers to the arrangement of visual elements within a scene in media production and includes:

- Setting
- Costume and makeup
- Lighting
- Props and objects

Media production techniques: camerawork

Shot Type	Description
Low Angled Shot	
Extreme Close-up	
Long Shot	
Medium Shot	
High Angle Shot	

Media production techniques: sound

Term	Description
Diegetic Sound	
Non-Diegetic Sound	
Sound Effects	
Music	



Media Production Techniques: Mise en Scene

Mise en Scene means 'what is in the scene'. It refers to the arrangement of visual elements within a scene in media production and includes:

Media Production Techniques: Lighting

Media production techniques: Editing

Editing Technique	Description
Cut	Rapid replacement of one shot by another, creating a quick transition between images.
Fade In/out	Gradual appearance or disappearance of a scene on the screen, starting from black and becoming brighter until the scene is fully visible.
Dissolve	Transition in which one shot fades away while another gradually appears, resulting in a smooth blend between the two shots.
Wipe	Editing technique where the next shot moves across the screen, "wiping away" the previous shot and revealing the new scene.



Lighting Type	Description
Low Key Lighting	Creates a dramatic and mysterious atmosphere by using strong contrasts between light and dark.
High Key Lighting	Produces bright and evenly lit scenes, commonly used in happy or funny situations.
Soft Lighting	Provides a gentle and diffused look, reducing harsh shadows and enhancing the appearance of people.
Hard Lighting	Creates a strong and direct scene with clear, sharp shadows, evoking a more intense feeling.
Realistic Lighting	Mimics natural light sources, aiming for a real and authentic feel in the scene.
Ambient Lighting	The overall light that fills the entire scene, setting the mood and indicating the scene's location.

Media Production Techniques: Lighting

Media production techniques: Editing		Lighting Type	Description
Editing Technique	Description	Low Key Lighting	
Cut		High Key	
Fade In/out		Lighting	
Dissolve		Soft Lighting	
Wipe			
<image/>		Hard Lighting	
		Realistic Lighting	
		Ambient Lighting	

H&C DT



Little Lever Schoo

Helping every person achieve things they never thought they could.

Residential establishments The Hospitality and Catering sector includes: pubs, bars and nightclubs; restaurants; self-catering accommodation, holiday centres travel and tourist services; Services and Hotels visitor attractions and hotels. Hospitals, food Guest houses provided prisons, schools armed forces and social Bed and breakfasts varies by care. Farmhouses price It has grown over the last 20 years and, Motels charged despite recession, is predicted to continue to Holiday parks grow .The sector as a whole currently Some public houses ⊨ × Variety of styles and food employs almost 2 million people. types, may be specialist eq italian, or gourmet or fine dining Bed & breakfasts, Guesthouses, Styles of service vary with Non residential establishments Farmhouses types of food and cost See styles of service section Often showcase local themes for more... or produce. Restaurants Services and May be breakfast, Half board Fast food outlets food or full board, family run Public houses provided varies by the Bars Motels & Holiday parks situation and Delicatessens price Lower standard than Take away outlets charged School meals hotels, food is usually Burger vans buffet style breakfast. Fast food Corporate or independent **Public houses** Non commercial establishments Can serve "basket" meals sandwiches or full table service. or take away Some chain pubs have a fixed Services and menu eg Wetherspoons. food provided Hospitals varies by the Prisons situation and Bars Meals on wheels the needs of more cosmopolitan menu than Residential care homes the clients. pubs, often themed to the type Armed services Not required to of establishment. Table service make a profit or eat at the bar

Hotels

The style of food provided will depend on

the standard of the hotel Hotel may provide

- No food provision
- Room service
- Hotel owned restaurants
- Franchise restaurants
- Breakfast provision only

Restaurants



Can vary from independent "greasy" spoon, Tea rooms or coffee shops. Serve snacks and full meals.

Chains eg KFC, Dominos or independent businesses Limited menu, low cost, eat in Disposable packaging

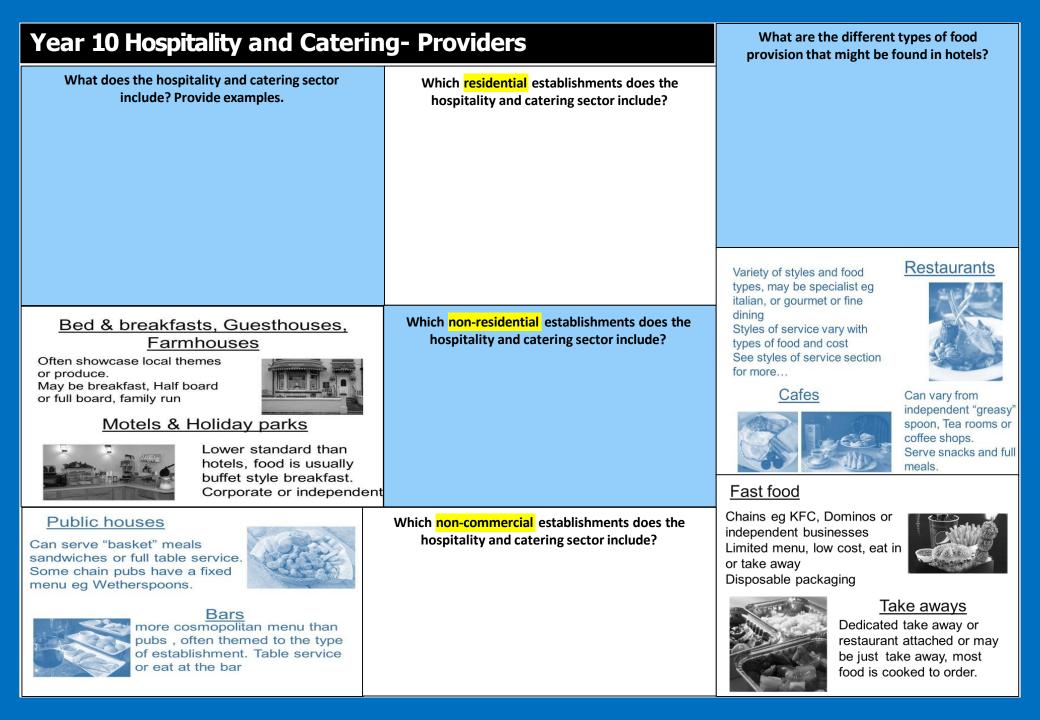


Take aways Dedicated take away or restaurant attached or may be just take away, most food is cooked to order.









Hospitals

Patients may need reduced fat, sugar, protein diets depending on health Soft meals, Vegetarian, vegan, religious, childrens meals Budget for food controlled by NHS





4 star Hotel

School meals

School employed or outside company .Strict guidelines on what can be served to U16, oily fish 1x week, chips max 2x week

Meals on wheels

Social meal service provided by volunteers, to people unable to prepare their own food.

Care home meals



food served may depend on the needs of the clients, some may have conditions which need special meals. Some residents may need help eating and drinking

Styles of food service

- Type of establishment
- Type of food being served
- Cost of the meal or food
- Time available for the meal
- Type of customer
- Number of customers
- Availability of serving staff

Cafeteria /self service

- A single long counter displaying the food available
- Could be multiple counters (like at a motorway service area)
- Queueing is often required
- It can be fast so produces a high turnover
- ·Simple, basic experience for customers
- Displays lead to impulse buying
- Low skilled serving staff

Armed services meals

Mass catering, Camps on active service, Canteens at bases.High energy, balanced nutritionally



Prisons Food is prepared in by prison inmates to ensure that tight budgets for food are met

Cafeteria / self service



Fast food / take away





Bristol hotel Gibraltar

Breakfast restaurant Room service

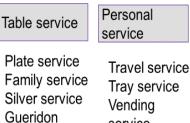


No food or restaurant on site Shared breakfast room across street with another hotel

Counter service

Cafeteria Self service Fast food Take away Buffet Carvery

service



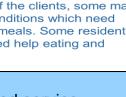
service











Describe hospital food provision below:

Describe school meal provision below:

Meals on wheels

Social meal service provided by volunteers, to people unable to prepare their own food.

Care home meals



food served may depend on the needs of the clients, some may have conditions which need special meals. Some residents may need help eating and drinking

Marriott Niagara

- 4 star Hotel
- 3 different themed restaurants
- Breakfast restaurant
- Room service
- Starbucks attached to ground floor!

Bristol hotel Gibraltar



No food or restaurant on site
Shared breakfast room across street with another hotel

List the examples of each service below:

Counter service

Table service Personal service

List the different styles of food service below:

Armed services meals

Mass catering, Camps on active service, Canteens at bases.High energy, balanced nutritionally

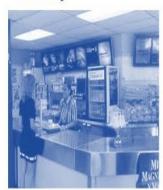


How do prisons ensure food budgets are met?

Cafeteria / self service



Fast food / take away



Outline the elements of cafeteria/selfservice provision below:

Silver service

- Food is served by staff using spoon and fork.
- •Full silver service= all food served this way
- Demi silver service= meat pre plated, veg silver served
- More personal customer experience
- Slower speed of service
- Variation in portion control
- Needs skilled staff

Gueridon service

- Food is served from a side table using a spoon and fork
- •Dishes can be cooked, finished or assembled in front of the customer
- Eg crepe suzette
- Specialist, skilled service,
- Individual attention to customer
- High staff costs
- Time consuming service

Silver service





Gueridon service

Plate service

- •Pre plated meals served from the kitchen
- •From cafes to luxury restaurants
- Good portion control
- Consistent presentation
- Relys on skill of kitchen staff
- Time consuming for kitchen staff

Family service

- spoons are provided and customers serve themselves
- More sociable
- Less portion control
- ·Easy and quick to serve
- Suits groups of people
 - •Needs a large table because of all the dishes!

Transported meal service

 An assembled meal provided or a choice from a menu ·Planes, trains

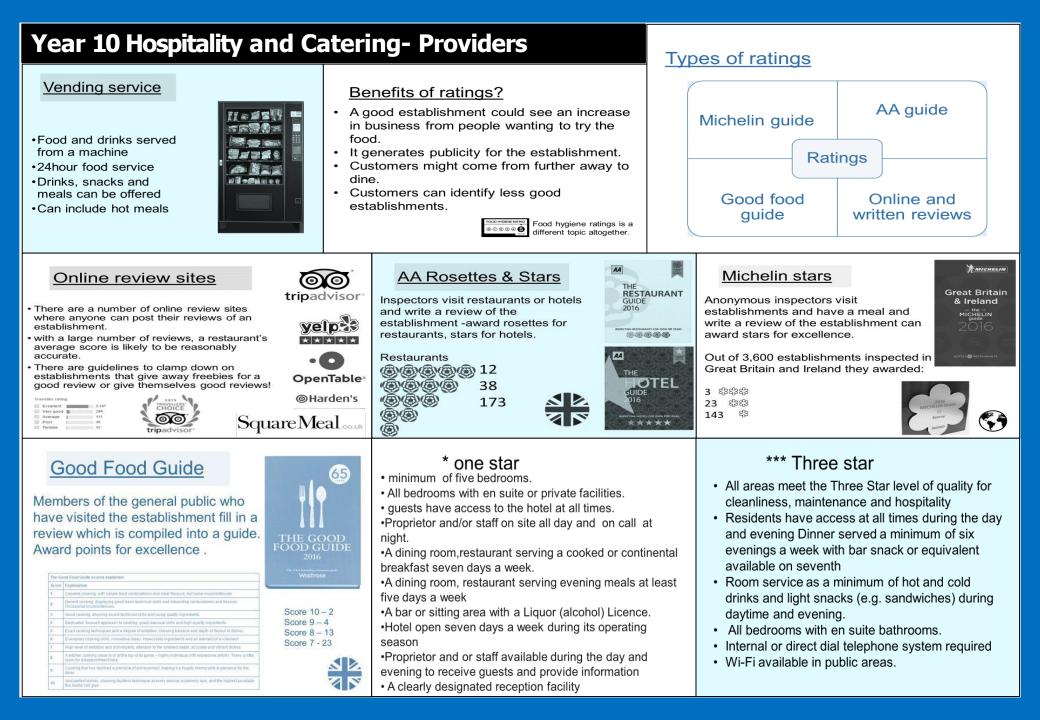


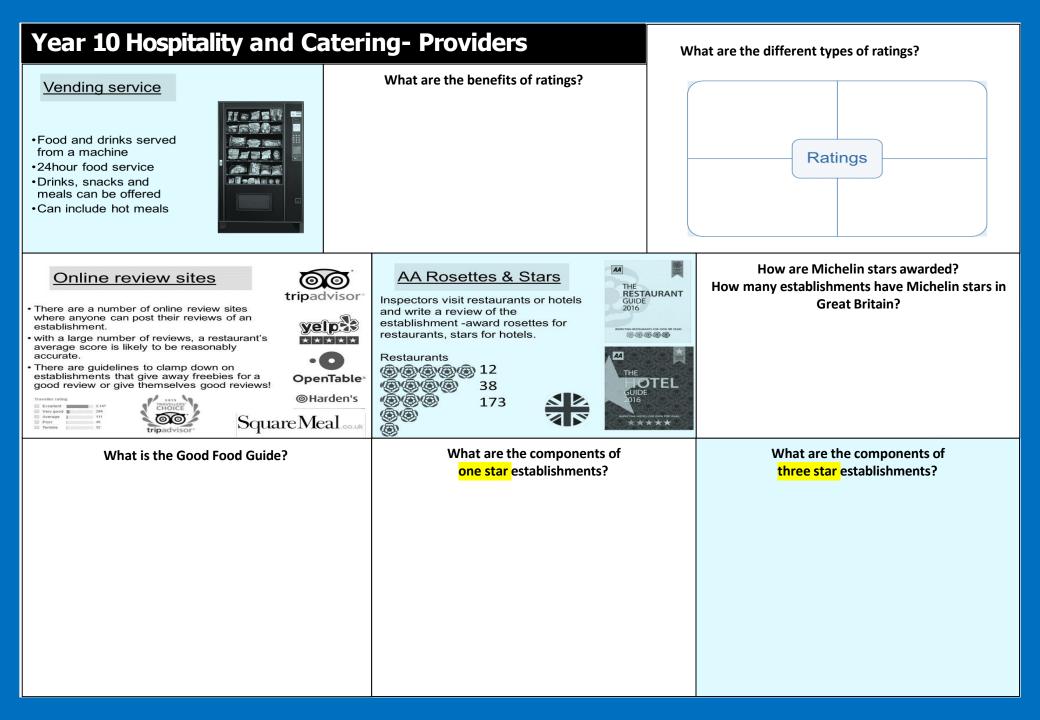


Fast food / take away

 Single or multiple counters where customer orders food from limited menu Food is collected from the counter Could be basic food or decorated cuisine •A quick, simple type of service Can be a very high turnover of food •Often a limited choice of menu Use disposable, cutlery, and packaging Buffet / carvery Usually single counter • Dishes are put on the table where serving Staff may serve some items eg meats from a joint Informal style of service ·Fast and simple service Reasonably low cost depending on the type of food served Poor portion control ·Needs efficient clearing away and arranging Tray service Buffet / carvery · An assembled meal provided or a choice from a menu Tray service used in Plate service hospitals, room service

Year 10 Hospitality and Catering- P	Describe the components of fast food/take away. Provide at least one advantage and	
Describe the components of silver service. Provide at least one advantage and one disadvantage	Describe the components of <mark>plate</mark> service. Provide at least one advantage and one disadvantage	one disadvantage
Describe the components of <mark>Gueridon</mark> service. Provide at least one advantage and one disadvantage	Describe the components of family service. Provide at least one advantage and one disadvantage	Describe the components of a buffet/ carvery. Provide at least one advantage and one disadvantage
Silver service Gueridon service	Transported meal serviceTray service• An assembled meal provided or a choice from a menu • Planes, trains• An assembled meal provided or a choice from a menu • Tray service used in hospitals, room service• Output Description• Tray service used in hospitals, room service	Buffet / carvery Plate service





Macro-nutrients

Carbohydrates - Carbohydrates are mainly used in the body for energy. There are two types of carbohydrates which are:

- Starch Examples include bread, pasta, rice, potatoes and cereals.
- Sugar Examples include sweets, cakes, biscuits & fizzy drinks.

Fat - This is needed to insulate the body, for energy, to protect bones and arteries from physical damage and provides fat soluble vitamins. There are two main types of fat which are:

- Saturated fat Examples include butter, lard, meat and cheese.
- Unsaturated fat Examples include avocados, plant oils such as sunflower oil, seeds and oily fish.

Protein - Protein is mainly used for growth and repair in the body and cell maintenance. There are two types of protein which are:

- High biological value (HBV) protein Includes meat, fish, poultry, eggs, milk, cheese, yogurt, soya and quinoa.
- Low biological value (LBV) protein Includes cereals, nuts, seeds and pulses.

Micro-nutrients

Minerals

Calcium - Needed for strengthening teeth and bones. Examples include dairy products, soya and green leafy vegetables.

Iron - To make haemoglobin in red blood cells to carry oxygen around the body. Examples include nuts, beans, red meat and green leafy vegetables.

Sodium - Controls how much water is in the body and helps with the function of nerves and muscles. Examples include salt, processed foods and cured meats.

Potassium - Helps the heart muscle to work correctly and regulates the balance of fluid in the body. Examples include bananas, broccoli, parsnips, beans, nuts and fish.

Magnesium - Helps convert food into energy. Examples include wholemeal bread, nuts and spinach.

Dietary fibre (NSP) - Helps digestion and prevents constipation. Examples include wholegrain foods (wholemeal pasta, bread and cereals), brown rice, lentils, beans and pulses.

Water - Helps control temperature of the body, helps get rid of waste products from the body and prevents dehydration. Foods that contain water naturally include fruits and vegetables, milk and eggs

Micro-nutrients

Vitamins

Fat soluble vitamin A - Main functions include keeping the skin healthy, helps vision in weak light and helps children grow. Examples include leafy vegetables, eggs, oily fish and orange/yellow fruits.

Fat soluble vitamin D - The main function of this micro-nutrient is to help the body absorb calcium during digestion. Examples include eggs, oily fish, fortified cereals and margarine.

Water soluble vitamin B group - Helps absorbs minerals in the body, release energy from nutrients and helps to create red blood cells. Examples include wholegrain foods, milk and eggs.

Water soluble vitamin C - Helps absorb iron in the body during digestion, supports the immune system and helps support connective tissue in the body which bind cells in the body together. Examples include citrus fruits, kiwi fruit, cabbage, broccoli, potatoes and liver.

Name the 3 macro-nutrients and provide examples:

Micro-nutrients

What do each of these vitamins do? (Provide examples)

Fat soluble vitamin A -

Fat soluble vitamin D -

Water soluble vitamin B group -

Water soluble vitamin C -

Micro-nutrients

Describe what each mineral below does. Provide example
Calcium -
iron –
Sodium -
Potassium -
Magnesium -
Dietary fibre (NSP) -
Water -

Nutrition at different life-stages

Adults:

Early – Growth in regard to height of the body continues to develop until 21 years of age. Therefore, all micro-nutrients and macro-nutrients especially carbohydrates, protein, fats, vitamins, calcium and iron are needed for strength, to avoid diseases and to maintain being healthy.

Middle – The metabolic rate starts to slow down at this stage, and it is very easy to gain weight if the energy intake is unbalanced and there isn't enough physical activity.

Elderly – The body's systems start to slow down with age and a risk of blood pressure can increase as well as decrease in appetite, vision and long-term memory. Because of this, it is essential to keep the body strong and free from

Children:

Babies – All nutrients are essential and important in babies, especially protein as growth and development of the body is very quick at this stage. Vitamins and minerals are also important. You should try to limit the amount of salt and free sugars in the diet.

Toddlers – All nutrients remain very important in the diet at this stage as growth remains. A variety of foods are needed for toddlers to have all the micro-nutrients and macro-nutrients the body needs to develop.

Teenagers – The body grows at a fast pace at different times at this stage as the body develops from a child to an adult, therefore all nutrients are essential within proportions. Girls start their menstruation which can

Special Dietary Needs

Different energy requirements based on:

Lifestyles / Occupation / Age / Activity level

The amount of energy the body needs is determined with each of the above factors e.g. active lifestyle or physical activity level would need more energy compared to a person being sedentary.

Dietary requirements:

Religious beliefs – Different religions have different dietary requirements.

Vegetarian – Avoids eating meats and fish but does eat dairy products and protein alternatives such as Quorn and tofu.

Vegan – Avoids all animal foods and products but can eat all plant-based foods and protein alternatives such as tofu and tempeh.

Pescatarian – Follows a vegetarian diet but does eat fish products and seafood.

Medical conditions:

Allergens – Examples of food allergies include milk, eggs, nuts and seafood.

Lactose intolerance – Unable to digest lactose which is mainly found in milk and dairy products.

Gluten intolerance – Follows a gluten free diet and eats alternatives to food containing wheat, barley and rye.

Diabetes (Type 2) – High level of glucose in the blood, therefore changes include reducing the amount of fat, salt and sugar in the diet.

Cardiovascular disorder – Needing a balanced, healthy diet with low levels of salt, sugar and fat.

Iron deficiency – Needing to eat more dark green leafy vegetables, fortified cereals and dried fruit.

Describe nutrition at each different life-stage:

<u>Adults</u> :	<u>Children</u> :
<mark>Early</mark> –	Babies –
Middle –	Toddlers –
<mark>Elderly</mark> –	Teenagers –

Define the different special dietary needs below:

Different energy requirements based on:

Lifestyles / Occupation / Age / Activity level

The amount of energy the body needs is determined with each of the above factors e.g. active lifestyle or physical activity level would need more energy compared to a person being sedentary.

Dietary requirements:

Religious beliefs –

Vegetarian –

Vegan –

Pescatarian –

Medical conditions:

Allergens –

Lactose intolerance -

Gluten intolerance -

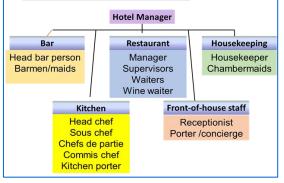
Diabetes (Type 2) -

Cardiovascular disorder –

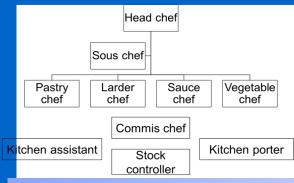
Iron deficiency –

Job roles in the industry

Staff structure in a hotel



The Kitchen brigade- Back of House



Most large establishments could have **chefs de partie** in the following areas:

- Sauce chef- Le Saucier
- Pastry chef- Le Patissier- baked goods and dessert
- Fish chef- Le Poisonnier
- Vegetable chef- L'entremetier
- Soup chef- Le Potager
- Larder chef- Le garde manger- cold starters and salads
- The commis chef or assistant chef is a chef in training
- The **kitchen porter** washes up and may do basic vegetable preparation
- The **stock controller** is in charge of all aspects of store keeping and stock control.

Front of House roles

Reception

Receptionist: meet customers and direct them to the correct person or place; they manage visitor lists and booking systems **Porter/ Concierge;** assist hotel guests by making reservations, booking taxis and booking tickets for local attractions and events.

Restaurant and bar

Restaurant manager (Maître d'Hote): The restaurant manager is in overall charge of the restaurant,; they take bookings, relay information to the head chef, complete staff rotas, ensure the smooth running of the restaurant

Head waiter (ess): Second in charge of the restaurant,. Greets and seats customers, relays information to the staff, Deals with complaints and issues referred by the waiting staff.

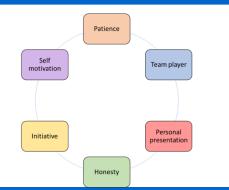
Waiting staff Serve customers, clear and lay tables, check the customers are satisfied with the food and service. May give advice on choices from the menu and special order foods

Wine waiter- Le sommelier: Specialises in all areas of wine and matching food, advises customers on their choices of wine, Wine waiters serve the wine to the customer and can advise customers on their choices as well

Bar staff serve drinks and take food orders , wash up, clear tables, change barrels and fill shelves.

Baristas make and serve hot and cold beverages, in particular different types of coffee such as espresso, cappuccino and latte.

Personal attributes



Working hours

- Hospitality and Catering jobs tend to be long hours, early starts for breakfast in a hotel to late nights for dinner in a restaurant.
- Staff will still get 2 days off a week but it will be quieter days instead of the weekend
- Shifts could be 6-3. 11-6. 3-11 or other hours.
- Monthly salaried staff may not have set hours eg Head Chef who might work from early morning to late night every day

Contracts of employment

- 1. a written statement of employment or **contract** setting out their duties, rights and responsibilities
- 2. the statutory minimum level of paid holiday 28 days for full time workers
- 3. a pay slip showing all deductions, eg National insurance, tax . Earning above £166 a week
- 4. the **statutory** minimum length of rest breaks- one 20 min break for 6 hrs worked
- 5. Statutory Sick Pay (SSP) £94.25 pw for 28 weeks (some may get full wages for a limited amount of time)
- 6. Maternity, paternity and adoption pay and leave-90% of earnings for 6 weeks then ££148.68 for next 33 weeks

Casual staff / Agency staff

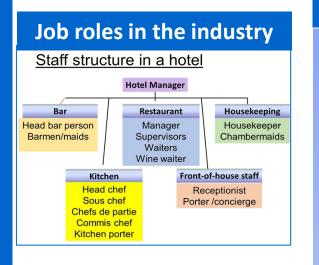
- work for specific functions and can be employed through an agency.
- They do not have a contract or set hours of work.
- They are needed at busier times of the year e.g. at Christmas or for weddings, New years eve

Temporary staff

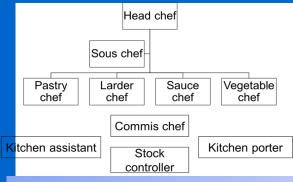
- Employed for a specific length of time such as the summer tourist season or the month of December.
- Temporary staff have the same rights as permanent staff for the duration of their contract.
- Temporary staff employed for longer than 2 years become permanent by law

Zero Hours Contract

This type of contract is between the employer and a worker, where the worker may sign an agreement to be available to work when they are needed, but no specific number of hours or times to start or end work are given. The employer is not required to offer the person any work and the worker is not required to accept the work.



The Kitchen brigade- Back of House



Most large establishments could have **chefs de partie** in the following areas:

- Sauce chef
- Pastry chef
- Fish chef
- Vegetable chef
- Soup chef
- Larder chef
- The commis chef
- The kitchen porter
- The stock controller

Front of House roles

Reception Receptionist:

Restaurant and bar Restaurant manager (Maître d'Hote):

Head waiter (ess):

Waiting staff

Wine waiter- Le sommelier

Bar staff

Baristas

Personal attributes



Working hours

Contracts of employment

1.	a pay showing all deductions, eg National insurance, tax .
	Earning above a week
2.	the minimum length of rest breaks- one 20 min break for
	6 hrs worked
3.	Statutory Sick Pay (SSP) £94.25 pw for (some may get
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	or for weddings, New years eve
	nporary staff

- Employed for a _____ length of time such as the summer tourist season or the month of ____.
- Temporary staff have the same rights as permanent staff for the duration of their ______.
- Temporary staff employed for longer than 2 _____ become permanent by _____

Zero Hours Contract

This type of contract is between the _____ and a _____, where the worker may sign an agreement to be available to work when they are ______, but no ______ number of hours or times to start or end work are given. The employer is not required to offer the person any _____ and the worker is not required to ______ the work.

Remuneration

Remuneration is a term used for the reward that people receive from working somewhere. It includes their basic pay, plus extra money t top u their income from: Tips and gratuities- money given to someone by a customer as a way of saying 'thank you' for good service

Service charge- a percentage added to the customers bill to reward the employees who have provided the customer with a service

Bonus payments and rewards- given by some employers as a way of rewarding hard work throughout the year and helping make the business successful.

It is quite common for all he tips, gratuities and service charges to be divided equally amongst all the workers in, e.g. restaurant. This is known as a tronc arrangement, and the person who works out and distributes the extra money is known as a 'troncmaster'.



- All workers are entitled to 28 days paid leave annually
- no legal right for employees to be given Bank and Public Holidays. Most hospitality staff would work these days

To calculate holiday entitlement,

Multiply the full-time entitlement (28 days) by the number of days worked and divide by the number of days full-time staff work

Entitlement for 3 days a week: 28 x 3/5 = 16.8 days

Compulsory Rest Breaks

Adult workers are entitled to 24 hours off in each 7 day period and young workers (15-18) are entitled to 2 days in 7.

Adult workers are entitled to at least 20 minutes uninterrupted rest if their working day is longer than 6 hours.

Young workers are entitled to 30 minutes rest if their working day is over 4.5 hours long.

Reasons for failure

- A saturated market there is a fine line between competition & too many for the number of customers
- 2. General business incompetence 46% of business fail due to lack of business knowledge
- 3. Lack of **capital** not enough money to get through the first few months
- 4. Location either not enough people walk past (footfall) live & work nearby
- 5. Quality of life most restaurateurs work 60 hours a week not the glamorous life they thought
- Lack of industry experience most successful restaurateurs tend to have previous industry experience
- Failure to create a good enough brand They did not incorporate the 12 Ps of restaurant branding, (Place, Product, Price, People, Promotion, Promise, Principles, Props, Production, Performance, Positioning and Press)
- 8. Name of the restaurant is too long- A restaurant with a name that is brief, descriptive and attractive is more likely to succeed.
- **9.** Lack of differentiation -the brand is not different enough
- **10.** Poor financial controls Main costs labour and food exceeded 60% of sales

	Food costs Ingredients Pre made foods Bar food and drink Food and drink for staff Costs for an stablishment
Overhead costs Heating, lighting Furniture Maintenance of equipment Curtains, carpets	Personnel costs wages Chefs Kitchen assistants Bar staff Waiting staff Managers Casual staff

What is portion control?

- Portion control is the amount of each menu item that is served to the customer.
- It depends on the type of customer, the type of food served,
- some foods are served in very small portions due to the high cost of the item eg caviar is served by the teaspoon

Factors affecting success

Costs - need to make a profit. Consider cost of everything you buy and selling price.

- Material Anything involved in making product
- Labour Costs of staff
- **Overheads** Anything not connected with making products

Economy - when the economy slows down, business have lower sales as consumers eat out less because they have less disposable income

Environment – 3 R's, packaging, food waste, global warming, carbon footprint, clean eating

Technology - Using technology to improve service, delivery and stock control – touch screen customer ordering, EPOS systems, stock management, apps for delivery services

Emerging and innovative cooking techniques – sous vide, clean eating, steaming, new restaurants,

Customer demographics and lifestyle

- delivery services Facebook Twitter

Customer service-customer satisfaction – free WiFi, order online

 $\mbox{Competition}$ - Low cost food (£1 menu, coffee McDs espresso v Starbucks)

Trends healthy food options, pop-up bars, cafes and restaurants, cronut, clean eating, low carb, good fats, **Political factors** - Increasing regulations – from government due to health issues, Brexit, use of migrant labour, migrants – ethnic foods

Media - Strong global brand, Good community reputation – children's charities / Ronald McDonald House, celebrity chefs, celebrity endorsements, Masterchef,

Remuneration	1		Paid annual leave	
<pre></pre>				
		Factors	affecting success	
	Food costs Ingredients Pre made foods Bar food and drink Food and drink for staff	Costs – Material - Any • Labour – • Overhead	ything involved in making product ds –	

Overhead costs	Personnel costs wages
Heating, lighting	Chefs
Furniture	Kitchen assistants
Maintenance of equipment	Bar staff
Curtains, carpets	Waiting staff
	Managers
	Casual staff

What is portion control?

Economy -

Environment –

Technology –

Emerging and innovative cooking techniques -

Customer demographics and lifestyle

Customer service-

Competition -

Trends

Political factors -

Media –

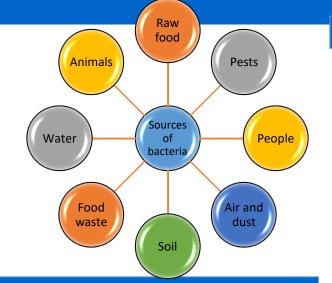
Compulsory Rest Breaks

Reasons for failure

- 1. A saturated market –
- 2. General business incompetence -
- 3. Lack of capital –
- 4. Location –
- 5. Quality of life -
- 6. Lack of industry experience -
- 7. Failure to create a good enough brand -
- 8. Name of the restaurant is too long-
- 9. Lack of differentiation -
- 10. Poor financial controls -

Food-related causes of ill health

Microbes- are tiny micro-organisms that can contaminate food and spoil it, casing ill health. The micro-organisms discussed on this page are bacteria, yeasts and moulds



Bacteria

- Bacteria are single-celled micro-organisms. Bacteria can be found everywhere around you; on your skin, in food, in soil, in water and in the air.
- Most bacteria are harmless, but some are pathogenic and can cause food poisoning. General food poisoning symptoms are vomiting (being sick) and diarrhoea.
- Other types of bacteria cause food to decay; these are called food spoilage bacteria, which cause food to smell and lose its texture and flavour.

What do bacteria need to multiply?

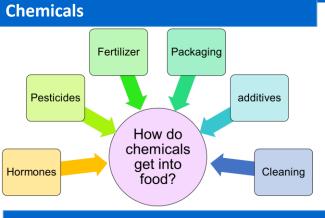


Yeasts

- Yeasts are a single celled fungi that reproduce by 'budding' – the yeast cell grows a bud, which becomes bigger until it eventually breaks off and becomes a new yeast cell.
- Yeast can grow in acidic, sweet foods; for example orange juice can ferment if it is not stored correctly, and honey can ferment if not pasteurised.
- Yeasts prefer moist, acidic foods.
- Yeasts can grow in high concentrations of sugar and salt.
- Yeasts grow best in warm conditions (around 25-29°C) but can also grow at fridge temperatures (0-5°C)
- Yeasts are destroyed at temperatures above 100°C.

Moulds

- Moulds are tiny fungi; they produce thread like filaments that help the mould to spread around the food.
- Moulds grow in warm and moist conditions.
- Moulds grow easily on bread, cheese and soft fruits, and can grow on foods with high sugar and salt concentrations.
- Moulds grow best between 20°C and 30°C, but can also grow in the fridge (0°C-5°C)
- Mould growth may be speeded up by high humidity and fluctuating temperatures
- Moulds can grow on fairly dry food, such as hard cheese (for example Cheddar cheese)
- Moulds often spoil food such as bread and other bakery products.



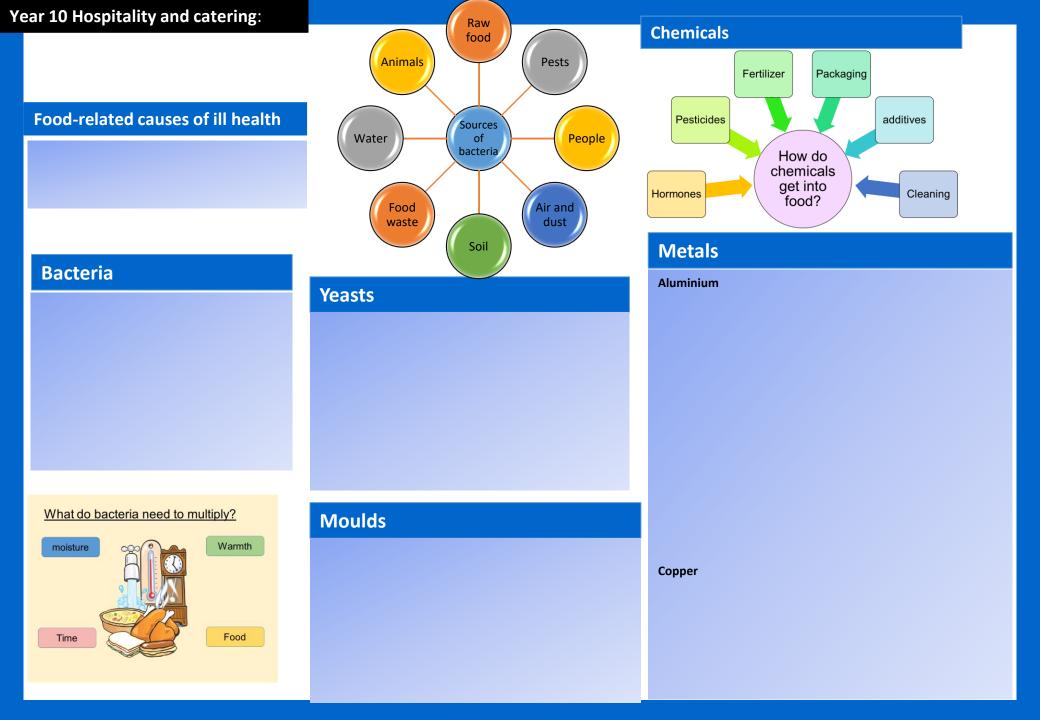
Metals

Aluminium

- Aluminium is one of the most common metals used in cookware as it is lightweight and conducts heat well.
- When aluminium surfaces are in contact with acidic foods, such as tomatoes and citrus fruits, the aluminium reacts and can leach (dissolve) into the food. This can give the food an unwanted metallic taste.
- When aluminium has been associated with Alzheimer's disease, there is no evidence that this causes the disease. The world health Organisation estimate that adults can consume more than 50 mg of aluminium daily without harm, so day to day exposure to aluminium from cooking is considered to be safe.
- Aluminium cookware can be anodised (hardened through a process that makes it unreactive) or coated with a lessreactive material, such as stainless steel, so that it does not react with food.

Copper

- Copper may be used in cups, pots and pans. It warms quickly and is he best conductor of heat.
- Copper and copper-alloy surfaces react with acidic foods, such as tomatoes and citrus fruits, and can leach (dissolve) into the food. High doses of copper can be toxic, so most copper pans are lined with stainless steel to avoid this happening.



Food-related causes of ill health

Poisonous plants

- Some mushrooms are poisonous, so you should pick mushrooms to eat unless you are 100% sure of what they are. The death cap and autumn skullcap are two of the most poisonous. Consuming poisonous mushrooms can lead to pain in the area of the kidneys, thirst, vomiting, headache and fatigue.
- Many berries that grow wild are poisonous and should not be eaten. Yew berries, deadly nightshade and unripe elderberries re all poisonous.
 Consuming poisonous berries can lead to nausea, vomiting, stomach ache and diarrhoea, but can also be fatal.
- Rhubarb leaves contain oxalic acid, which shuts down the kidneys and can be fatal; the stalks are safe to eat how ever.
- Glycoalkaloids are found in leaves, stems and sprouts of potatoes. They can build up in potatoes if they are left too long in the light, causing them to turn green. Eating glycoalkaloids can lead to cramps, diarrhoea and coma, and can prove fatal.
- If nuts and cereals get damp when they are stored, they can develop a mould that produces a toxin that can damage the liver.
- Dried kidney beans contain a toxin called lectin that makes them unsuitable for eating. Eating raw or inadequately cooked beans can lead to symptoms that indicate food poisoning. Kidney beans should be soaked and boiled for a t least ten minutes to destroy the toxin.

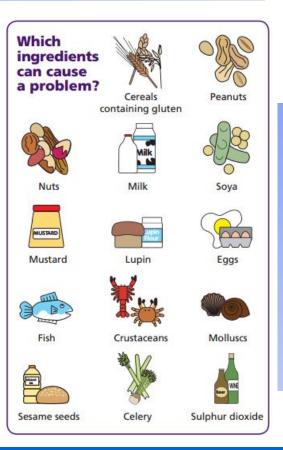




Allergies

•

- A person with a food allergy experiences an allergic reaction when they eat or come into contact with specific foods.
- Allergic reactions are caused by the body's immune system reacting to the food and can be fatal.



Intolerances

Some people have sensitivity to certain foods. This is called a food intolerance. Eating these foods can cause symptoms such as nausea, abdominal pain, joint aches and pains, tiredness and weakness

Lactose intolerance

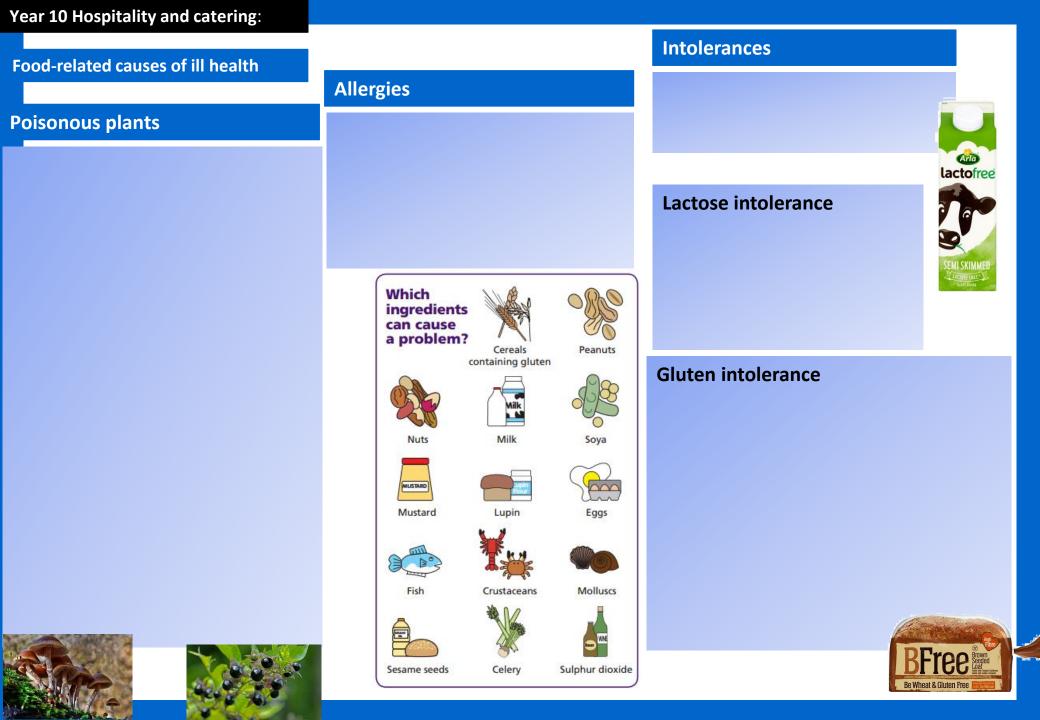
- A person with a lactose intolerance cannot digest the sugar in milk called lactose.
- People with a lactose intolerance need to avoid all dairy products and foods that contain dairy products in their ingredients.

Gluten intolerance

- Gluten is a protein present in a number of cereals including wheat, rye and barley.
- Wheat is a nutritious staple food in the UK diet an dis found in a number of foods including flor, baked products, bread, cakes, pasta and breakfast cereals.
- People with a gluten intolerance need to follow a gluten free diet.
- It is important not to confuse gluten intolerance with coeliac disease which is an autoimmune disease caused by a reaction of the immune system to gluten. A person with coeliac disease is called a coeliac.







The role and responsibility of the Environmental Health Officer

to provide support to minimise health and safety hazards. Environmental Health Officers (EHOs) are responsible for carrying out measures to protect public health and

Role of EHOs

- They look after the safety and hygiene of food through all stages of the manufacture or production from distribution to storage and service.
- They help develop, co-ordinate and enforce food safety policies.
- They have the right to enter and inspect food premises at all reasonable hours and can visit without advance notice.
- They carry out routine inspections of all food premises in their area; the frequency of routine inspections depends on the potential risk posed by the type of business and its previous recordsome high-risk premises may be inspected at least every six months, others much less often.
- They visit premises as a result of a complaint.
- They have powers of enforcement and can close businesses in extreme cases.





Responsibilities of EHOs

- They check that food producers handle all food hygienically so as not to give customers food poisoning.
- They check that food is being kept at the specific temperatures at which it should be stored or held.
- They check that staff are properly dressed, with clean nails, no jewellery, hair covered or tied back, and showing good hygiene habits.
- Thy review processes in the workplace, such as the handling of food, use of equipment, use of colour coded chopping boards, washing-up and disposal of waste.
- They inspect food stores-fridges, freezers and dry stores.
- They check stock rotation and temperature logs
- They check that equipment is clean, well maintained and with safety notices if appropriate.
- The check the temperature of the food when it is cooked with probes to ensure that it is at the correct temperature.
- They ask questions to check compliance with the law or good practice
- They identify potential hazards
- They review safety management systems and plans
- At the end of an inspection they give verbal feedback, discuss any problems and advise on possible solutions. They complete a report of inspection findings, which tells the business what enforcement action is to be taken.

Enforcement action

Enforcement action is required by law following an inspection from an EHO.

Enforcement action can range from verbal advice, informal or formal letters, and notices through to prosecution.

- Formal Inspection letters- tells the food business which issues must be addressed to comply with the law. The EHO may revisit the business to check that the issues have been resolved.
- Hygiene Improvement Notices- An EHO can serve a Hygiene Improvement Notice when they believe that a food business is failing to comply with food hygiene regulations. This notice will specify what s going wrong and what needs to be done by which date. The EHO will visit again to see if the required work has been done. If it has not improved, it can lead to a fine or imprisonment.
- Hygiene Emergency Prohibition Notices- If an EHO believes that there is a significant risk to health and injury, a Hygiene Emergency Prohibition Notice may be served. The notice stops the use of the unsafe equipment, processes or premises immediately. It can only be removed by an EHO once the issues have been addressed.
- Voluntary closure- A food business may elect to close voluntarily to carry out improvements. However, should the business reopen before the improvements are completed, the EHO will serve a Hygiene Emergency Prohibition Notice.
- Seizure and detention of food- EHOs have the power to inspect and seize food suspected of not meeting food safety regulations. Food is taken if there is suspicion that it is contaminated and is likely to cause food poisoning or disease. Seized food may undergo microbiological examination and testing.
- Condemnation of food- In order to condemn or seize food, the EHO must present their findings to a court. They will consider the information and decide whether the food poses a risk to human health and whether or not to condemn it.
- Voluntary surrender of food- The owner of a business may surrender unfit food to the EHO voluntarily. This would avoid the involvement of the court.

The role and responsibility of the Environmental Health Officer



Responsibilities of EHOs

Enforcement action

Enforcement action is required by law following an inspection from an EHO.

Enforcement action can range from verbal advice, informal or formal letters, and notices through to prosecution.

• Formal Inspection letters-

Hygiene Improvement Notices-

Hygiene Emergency Prohibition Notices-

- Voluntary closure-
- Seizure and detention of food-
- Condemnation of food-
- Voluntary surrender of food-

Role of EHOs



Food safety legislation

Food Safety Act 1990

- This act is concerned with all aspects of food production and sale.
- If affects everyone involved in the production, processing, storage, distribution and sale of food.
- It ensures that all food produced is safe to eat.
- The act states that it is an offence to make food sold for human consumption unsafe to eat.
- A food producer or retailer may not add any substances to food, or subject food to any process or treatment, which will make it harmful to health.
- An EHO may inspect any food intended for human consumption at any reasonable times. If the food is regarded as unfit for human consumption, it may be seized.
- The legislation also provides a defence for foo producers, processors and retailers. They must prove that all reasonable precautions were taken to prevent a food safety incidence. This is called **due diligence**.
- Failure to take reasonable precautions can result in prosecution.
- Magistrates' courts may impose a fine, prison sentence or both for offences committed.

Record Keeping

Detailed records need to be kept of:

- Food safety management procedures
- Training records of staff and staff illness
 reporting procedures
- Cleaning schedules
- Pest control and waste disposal contracts
- Records of checks, problems found and actions taken, for example a food temperature log book
- List of suppliers

Basic hygiene rules

- Don't cough or sneeze near food.
- Don't touch your head, especially your mouth, nose or ears.
- Wear protective clothing and footwear provided by your employer.
- Don't brush your hair when wearing protective clothing or in any food areas.
- Long hair should be tied back and covered.
- Cuts and scratches should be covered with a coloured waterproof plaster.
- Don't prepare food if you are unwell with a stomach bug or cough and cold, as you could spread bacteria onto food.

Hazard analysis and critical control points (HACCP)

This is a process that is designed to help look at how you handle food and to put procedures in place to ensure that the food you produce is safe to eat. Every business that produces, sells or serves food is required to have a HACCP plan in place with a written **food safety plan.** It is the responsibility of the owner of the business to develop an appropriate food safety management system based on HACCP.

HACCP systems should apply the following principles:

- 1. Create a flow chart or table showing each step in the preparation, making, serving and storing of each dish.
- 2. Each step should be analysed to identify the hazards. Hazards can be:
 - Physical- foreign materials can cause injury to the consumer; these might be metal or plastic, or natural hazards such as bones in fish.
 - Biological- food can become infected by bacteria, which might lead to food poisoning
 - Chemical- potentially dangerous chemicals such as cleaning fluids can contaminate food.
- 3. Identify what can be done to control (prevent) the hazard.
- 4. Set guidelines on how to ensure food is going to be safe to eat- these are known as critical limits- and keep a record of this.
- 5. When new dishes are made, there needs to be a HACCP review to ensure that they are safe to eat.
- 6. All the documentation relating to the HACCP needs to be kept safe.

Food Safety (General Food Hygiene) Regulations 1995

These regulations apply to food businesses and cover all activities involving food. The legislation clearly sets out the responsibility of food businesses to:

- Produce food safely and make sure it is consistently safe to eat; food is unsafe if it is harmful to health and unfit for human consumption
- Keep records of suppliers so that food can be traced; businesses must withdraw food that does not meet food safety requirements.

The whole food chain, from **farm to fork**, is covered by legislation. Farm to fork means that food can be traced through all the stages of production, processing and distribution back to the original source. The regulation require that food is stored, handled, cooked an served safely; that premises are clean and hygienic; and that people handling food follow basic hygiene rules.

Food safety plan

The following information should be included in a written safety plan:

- Purchase and delivery
- Stock control
- Storage and preparation
- Chilled foods
- Frozen foods
 - Cooking

•

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- Hot holding
- Cooling
- Reheating
- Personal hygiene
- Equipment and premises
- Cleaning and maintenance
- Pest control

Using this system can demonstrate the defence of 'due diligence' legally. To prove due diligence a business must be able to demonstrate that it took every possible reasonable step to achieve safe food. This may protect the owner of the business from prosecution. It is likely that the court would demand written records to support the defence. These might include documents from the safety plans. Other relevant documentation may include staff training records, temperature logs, cleaning schedules, supplier specifications, traceability systems, remedial action where food safety problems have arisen, and pest control measures.



Food safety legislation

Food Safety Act 1990

Hazard analysis and critical control points (HACCP)

Record Keeping

Basic hygiene rules

Food Safety (General Food Hygiene) Regulations 1995

Food safety plan

The following information should be included in a written safety plan:



Food safety legislation

Nutrition claims

There are strict rules about claims that can be made about food on its packaging so that consumers are not misled. For example, if the packaging says that the product is 'fat free', the product must not contain more than 0.5g of fat per 100g or 100ml. Any health claim the manufacturer makes has to be reviewed to ensure it is accurate before it appears on the label.

Nutritional labelling

Nutritional information must be expressed per 100g or per 100ml, and it must be listed in the following specific order:

- Energy-stated in kilojoules (kJ) and kilocalories (kcal) per 100g or 100ml
- Fat Saturated
- Carbohydrates
- Sugars
- Fibre (not required by law)
- Protein
- . Salt
- Vitamins and minerals-these must also be expressed as a percentage of the reference intake (RI)

Mandatory information required on labels Name of the food Nutritional List of declaration ingredients Alcoholic Allergen strength inforamtion Informatio Quantity of n that certain Instruction ingredients for use or categories food labels ingredients must show Country of Net origin quantity Date of minimum Manufactur to durability ers name (use by and and address best before Storage dates)

Traffic light labelling

Traffic light labelling is a voluntary system that uses traffic light colours to indicate how healthy a product is at a glance in terms of fat, saturated fat, sugar and salt.

- Red- the food is high in something that consumers should try to cut down on in their diet; such foods should be chosen less frequently and eaten in small amounts.
- Amber- the food isn't high or low in the nutrient, so this is an acceptable choice most of the time.
- Green- the food is low in teat nutrient; the more green, the healthier the choice.

Consumers should choose foods with more greens and ambers and fewer reds to ensure healthier choices.

Traffic light labels also give the amount of fat, saturated fats, sugars and salt in grams, the manufacturer or retailer's suggested 'serving' size, and information on the nutrient as a percentage of RI.



of an adult's reference intake Typical values (as sold) per 100g: 697kJ/167kcal

Food labelling regulations

Food labels are used by business to provide information about their products. They are needed to:

- Enable consumers to make informed decisions and choices, and to educate them about the food they choose to buy
- Help us to store, prepare and cook the food we buy correctly
- Identify the ingredients used in food-if a consumer has a severe allergy to certain ingredients (for example nuts), they need to check if the food contains those ingredients.
- Establish the nutrient content of the food- if a consumer has a health condition such as diabetes or high blood pressure, they may want to check the sugar, fat, carbohydrate or salt content of the food.
- Identify where the food comes from- some consumers may prefer to buy local ingredients.

Dates of minimum durability

Different types of dates are used to tell customers when food should be consumed by:

- **Use-by date-** usually on high risk foods such as soft cheeses, chilled meats, salads and sandwiches, which can go off quickly; it states the date that the food should be used by.
- Sell-by or display-until date- this date is aimed • at shopkeepers rather than consumers; it is usually a few days before the use-by date to allow the consumer time to eat the food.
- Best-before date- these are given on foods that keep for longer, for example biscuits; the food should be eaten before this date for quality purposes, but it is not usually harmful to eat it after this date.



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Food safety legislation

Nutrition claims

Nutritional labelling

Nutritional information must be expressed per 100g or per 100ml, and it must be listed in the following specific order:

• • .

Nutritional

declaration

- Mandatory information required on labels

Name of

the food

Informatio

n that

food labels

must show

Storage

List of

ingredients

Date of

minimum

durability

(use by and

best before

dates)

Allergen

inforamtion

Net

quantity

Quantity of

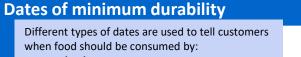
certain

ingredients

or categories

of ingredients

a alamy stock photo



Use-by date-



- Best-before date-•
- **Best Before** 10/10/2019 191 12 3021 LB
- Keep Frozen a alamy stock photo
- Alcoholic strength Instruction for use Country of origin 05/3 123.02 Manufactur to ers name and address

Traffic light labelling

Traffic light labelling is a voluntary system that uses traffic light colours to indicate how healthy a product is at a glance in terms of fat, saturated fat, sugar and salt.

• Red-

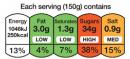
- Amber-
- Green-

• .

•

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of an adult's reference intake Typical values (as sold) per 100g: 697kJ/ 167kcal

Food labelling regulations

Food labels are used by business to provide information about their products. They are needed to:

Year 10 Hospitality and catering: To know how food can cause ill health

4.4 Common types of food

Food poisoning can be caused by pathogenic bacteria but it can also be caused by virus, chemicals and metals contaminating the food. Food can even be contaminated with poisonous plants and animals.



Sources of food poisoning

Food can become contaminated during production, preparation and retailing. The main sources are:

- Raw food-for example meat, poultry, shellfish and eggs.
- People- food-poisoning bacteria are found on the skin, in septic wounds, in the nose and sometimes in the gut.
- Pests- for examples rats, mice, cockroaches, ants, wasps and flies.
- Animals- domestic pets and farm animals can carry *E.coli* in their intestines.
- Air and dust- food must be covered as bacteria in the air can settle on the surface.
- Water- bacteria such as *Salmonella* are carried in untreated water.
- Soil- bacteria and spores can survive in soil, so can be found on unwashed vegetables.
- Food waste-waste needs to be disposed of correctly as it could be a source of contamination and may attract pests.



Conditions necessary for food poisoning

Bacteria can grow rapidly in the correct conditions. A single **bacterium** can divide into two by the process called **binary fission.** A single bacterium can produce 16 million bacteria in only 12 hours.

Food poisoning bacteria have four essential requirements for growth:

- **Food-** bacteria grow rapidly in high risk foods that are good sources of protein; such as cooked meat and poultry, shellfish, and seafood, undercooked or lightly cooked eggs, unpasteurised milk and cheeses, cooked rice and pasta, and salads.
- **Moisture-** bacteria cannot multiply without moisture, which means that they do not usually affect dried foods or products with high quantities of salt or sugar, which absorb water.
- Warmth- most bacteria multiply at ambient temperature normal room temperature. This falls within the danger zone between 5° C and 63° C. Below 5° C most bacteria are unable to multiply rapidly, and below -18° C they become dormant. Cooking food at high temperatures above 63° C will destroy most bacteria; when cooked, the food should reach 75° C for at least two minutes.
- **Time-** in the right conditions the number of bacteria can double every 20 minutes.

The acidity and alkalinity of a food can influence the growth of bacteria. If conditions are too acidic or to alkaline, bacteria can not grow.

4.5 Symptoms of food –induced ill health

How bacteria make you ill

- Eating pathogenic bacteria- when bacteria enter the stomach and intestines they multiply. This is ow *Campylobacter* and *Salmonella* cause illness. Some types of food poisoning require the consumption of thousands of bacteria; others, such as *E.coli*, only require the consumption of a few to cause serious illness.
- Eating a toxin- a toxin is a poison produced as a waste product by bacteria. Some bacteria, such as Staphylococcus aureus and Bacillus cereus, produce a toxin when they multiply. Eating the toxin makes you ill, not eating the bacteria.

Symptoms of food poisoning

- A symptom is a sign or indication of a disease.
- The body reacts to bacteria or toxins by developing symptoms such as diarrhoea, vomiting, stomach pains, headache and sweating.
- Some of these symptoms are visible and some are non-viable

Visible symptoms	Non-visible symptoms
Shivering Diarrhoea Vomiting	Feeling tired or weak Stomach ache Headache Feeling nauseous (sick)

Symptoms of food allergies

A food allergy is a serious reaction to a food or ingredients in food. It is caused by the body's immune system reacting to an allergen. If the reaction to a food is a bad one, it could give the following symptoms:

- Skin rash
- Itchiness of skin, eyes and mouth.
- Swollen lips, face, eyes
- Difficulties in breathing.

In severe cases, it can bring about anaphylactic shock- the person develops swelling in their throat and mouth, making it difficult to speak or breathe. This can lead to death if appropriate treatment, such as an EpiPen, is not used quickly.

Symptoms of food intolerances and coeliac disease

Some people have a sensitivity to certain foods, which can cause symptoms such as nausea, abdominal pain, joint aches and pains, tiredness and weakness. This is called a food intolerance- this is not an allergic reaction and it does not involve the immune system.

Coeliac disease is neither a food allergy nor a food intolerance but an autoimmune disease caused by a reaction of the immune system to gluten- a protein found in wheat, rye and barley. The symptoms of coeliac disease vary from person to person and can range from mild to severe. Symptoms of coeliac disease include:

- Severe diarrhoea, excessive wind and/or constipation
- Persistent or unexplained gastrointestinal symptoms, such as nausea and vomiting.
- Recurrent stomach pain, cramping or bloating.
- Iron, vitamin B12 or folic acid deficiency.
- Anaemia
- Tiredness
- Sudden or unexpected weight loss.

Symptoms of lactose intolerance include:

- Abdominal pain
- Nausea
- Diarrhoea
- flatulence

Year 10 Hospitality and catering: To know how food can cause ill health

4.4 Common types of food



Sources of food poisoning

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4.5 Symptoms of food –induced ill health

How bacteria make you ill

• Eating pathogenic bacteria-

Eating a toxin-

Symptoms of food poisoning	
Visible symptoms	Non-visible symptoms

Symptoms of food allergies

A food ______ is a serious reaction to a food or ______ in food. It is caused by the body's immune system reacting to an allergen. If the reaction to a food is a bad one, it could give the following _____

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Symptoms of lactose intolerance include:

Year 10 Design and Te	echnology: our world	CAD/CAM/CNC
	Market Pull	CAD - Computer Aided Design
Technology Push is when research and		An effective method of drawing, editing and presenting design work digitally.
development in new technology, drives the development of new products.	Market pull is when product ideas	
the development of new products.	are produced in response to market forces.	CAM - Computer Aided Manufacture
Technology push is when products are		Using machinery to produce products. CAM machines run from instructions
re-designed because of changes in materials or manufacturing methods.	Examples of market influences	produced from CAD drawings.

This might mean that **new materials have become available**, with improved properties; or that improvements in manufacturing processes mean a manufacturer can **make the product cheaper or more efficiently**, which reduces manufacturing costs and carbon footprints Examples of market influences include:

- A demand from consumers for new or improved products.
- A competing product is launched by another manufacturer.
- A manufacturer wants to increase their of share the market.

Global Production

Products are sold and manufactured worldwide: we need to consider the positive and negative implications of this and how the products we design affect people, jobs & the environment.

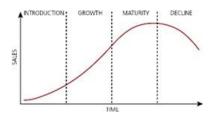
- Developments in transport makes it easier for manufactures to ship materials, components and products worldwide.
- Allows for materials and components to be sourced in one country, manufactured into products or part-products in another and ship worldwide.
- Manufacturing costs can be reduced through automation or global production impacting jobs.
- Mobile technology & the internet make it easier to communicate with people all over the world.
- Greater competition among manufactures, reducing cost

CNC - Computer Numerically Controlled

Machine tools that are controlled by a computer.

Product Lifecycle

Product life cycle an important part of marketing. It covers the 4 stages a product goes through from its initial introduction to the market until it is replaced as it is not selling well or has been used.



The introduction stage is when the product is 1st developed, the 2nd is growth and manufacturing, maturity would be as the product is used by the customer and decline in and the end of its life when the product is disposed of.

Carbon Footprint

The impact human activities have on the environment in terms of the amount of green house gases produced, measured in units of carbon dioxide



Year 10 Design and Technology: our world		CAD/CAM/CNC	
What is technology push? (give examples)	What is market pull? (Provide examples)	What is CAD?	
		What is CAM?	
		What is CNC?	
		What is product lifecycle? Explain the s	tages below:
Global Production- what are he pos	sitive and negative implications?		
Products are sold and manufactured worl and negative implications of this and how jobs & the environment.			
• -			
• -		What is carbon footprint?	
• -			CARBON
• -			FOOTPRINT

Year 10 Design and T	echnology: our world	Just-in-Time (JIT)	
6 Rs - Sus	tainability	Just-in-time (JIT) production is a metho	od of organizing a factory so that
1. Recycle and reprocess the materia	ls	materials and components are ordered plant just in time for production.	t to arrive at the product assembly
2. Re-use materials/components/pro	ducts for another purpose	 triggered by a customer order. 	
3. Reduce the amount of energy and product life cycle	resources used throughout the whole	 The correct amounts of materials are ordered in to cover the order, and these arrive just as they are needed by production. 	
4. Repair products/design them to be	e easily repaired	 This saves money on storage, reduce 	es waste and ensures there is no
5. Rethink our current lifestyles and t	he way we design and make	money wasted producing stock that	
6. Refuse products which are unnece	ssary or wastefully use resources	Flexible Manufacturing Systems	Lean Manufacture
 Product Miles How many miles does the product travel? Source material to primary processor Material to factory Product to distributor Distributor to retail outlet Retail outlet to home 		Partially completed Work Bow Work Bow Work Bow Work Bow Work Bow Work Bow Work Bow Work Bow Work Bow Completed Partially completed Partially com	 Focuses on maximizing productivity while reducing waste when manufacturing. Reduced lead times and operating costs Improved product quality and customer satisfaction
Scale of Productions	Planned Obsolescence	Starting workstarts	Resource savings and better
 There are 4 scale of production: prototype or one-off production batch production mass production continuous production 	 When a manufacturer plans or designs a product to have a short, useful life. It could mean that after a period of time, the product: becomes unfashionable will no longer function. 	Production is organized into cells of automated machines performing different tasks. Often along a conveyor line.	 sustainability Flexibility through small batch sizes and low inventories Better management of process complexity

Year 10 Design and T	echnology: our world	What is Just-in-Time (JIT) prod	uction? Give examples.
What are the 6 Re	of sustainability?	Just-in-time (JIT) production is:	
1			
2			
3			
4			
5			
6		Flexible Manufacturing Systems	What is lean manufacture?
Product Miles		1.Progressive Layout	
How many miles does the product travel? • Source material to primary processor • Material to factory		Partially completed Work Bow Work	
 Product to distributor Distributor to retail outlet Retail outlet to home 		2. Loop Layout	
Scale of Productions	Planned Obsolescence	parts → ●●●● Unit → ●●●●● Unit → ●●●●● Unit → ●●●●● Unit → ●●●●●●●●●●●●●●●●●●●●●●●●●●●●	
What are the 4 scales of production? • - • - • -	When a manufacturer plans or designs a product to have a short, useful life. It could mean that after a period of time, the product:	Production is organized into cells of automated machines performing different tasks. Often along a conveyor line.	
What are the 4 scales of production?	When a manufacturer plans or designs a product to have a short, useful life. It could mean that after a period of time, the product:	Production is organized into cells of automated machines performing different tasks. Often along a	

Year 10 Design and Technology: Timbers

Timber Classifications

Hardwood

- comes from deciduous trees
- trees lose their leaves in winter
- trees have broad leaves
- is slower growing than softwood
- has seeds that are housed in fruit
- is generally more expensive than softwood
- generally good resistance to decay.

Softwood

- comes from coniferous trees
- is evergreen
- trees have needles rather than leaves
- is quick growing
- · has seeds that are housed in cones
- is extensively used in joinery
- is generally less expensive than hardwood
- has generally poor resistance to decay.

Manufactured boards are usually made from timber waste and adhesive. To make them more aesthetically pleasing they are often veneered. They are cheap to buy but will need protective coatings for longevity.

Chip board

Medium Density Fibreboard (MDF)





Stock Forms

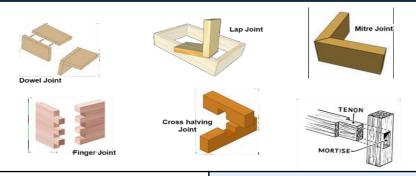
Timber and man-made boards are available in different standardised forms.

Timber cut at a sawmill, it is referred to as sawn finish and uses include garden fence posts and some building work. This type of finish is rough and has not been treated or machined further.

Timber that is sold at DIY shops or from a timber merchant can often be bought with planed edges that have been machined smooth.

Manufactured boards are in sheet form and in standard sizes with various thicknesses depending on the material.

Traditional Joints



Fixings and Fastenings

Temporary fixings will often be done using fastening components, such as screws or knock-down fittings, which are most commonly used in joining flat-pack furniture.



Surface finishes.

Physical properties of timbers can be changed, such as colour and texture, by applying a surface finish to the wood.

- staining
- varnishing
- oiling
- waxing
- painting
- laminating

Plywood

Year 10 Design and Technology: Timbers	Stock Forms	
Timber Classifications Hardwood- list the characteristics: •	Timber and man-made boards are available forms. Timber cut at a sawmill, it is referred to as sa include garden fence posts and some buildir finish is rough and has not been treated or n Timber that is sold at DIY shops or from a tim be bought with planed edges that have been Manufactured boards are in sheet form and various thicknesses depending on the mater	awn finish and uses ng work. This type of nachined further. nber merchant can often n machined smooth. in standard sizes with ial.
 - - Manufactured boards are usually made from timber waste and adhesive. To make them more aesthetically pleasing they are often veneered. They are cheap to buy but will need protective coatings for longevity. Give 3 examples below: - 	Fixings and Fastenings Surface Temporary fixings will often be - done using fastening components, - such as screws or knock-down - fittings, which are most commonly - used in joining flat-pack furniture. - Image: Complex structure of the stru	e finishes- list below:

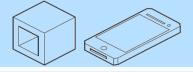
Year 10 Design and Technology: Design Skills

Isometric Drawings,

A good way of showing measurements and how components fit together. Unlike perspective drawings, they don't get smaller as the lines go into the distance.

There are three main rules to isometric drawing:

- horizontal edges are drawn at 30 degrees
- vertical edges are drawn as vertical lines
- parallel edges appear as parallel lines



Orthographic Drawing.

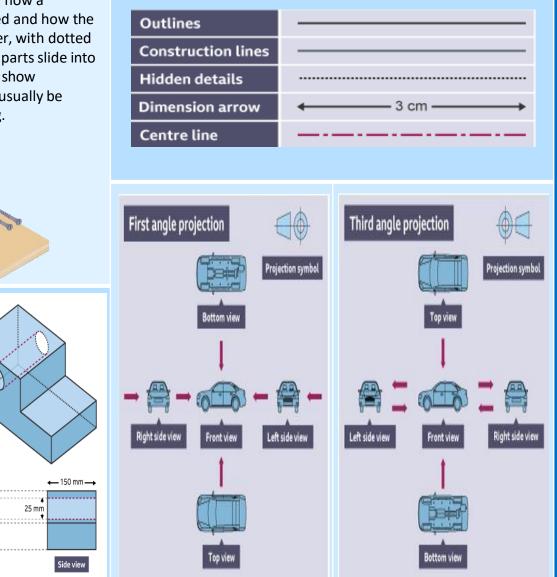
Orthographic projections are working drawings in either a **first or third angle projection** and show each side of a design without perspective, ie a 2D drawing of a 3D object.

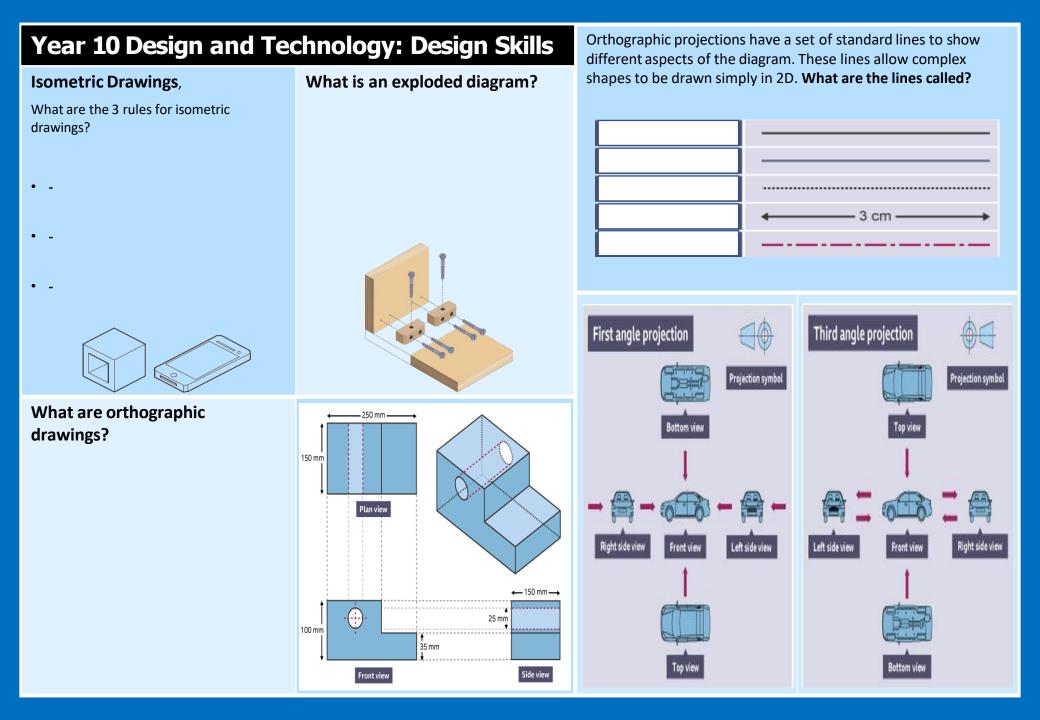
They are used to show an object from every angle to help manufacturers plan production. Starting with a front view of a product, construction lines show where areas join and are used to draw a side and plan (top) view, ensuring that the drawing is accurate from all angles. These drawings are to scale and must show dimensions.

Exploded Diagrams.

Exploded diagrams show how a product can be assembled and how the separate parts fit together, with dotted lines showing where the parts slide into place. The diagrams also show components that would usually be hidden in a solid drawing.

150 mm 150 mm Plan view Plan view 100 mm Tront view Front view Side view Orthographic projections have a set of standard lines to show different aspects of the diagram. These lines allow complex shapes to be drawn simply in 2D.

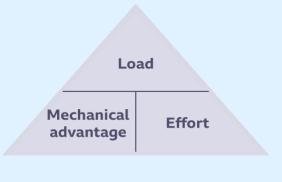




Year 10 Design and Technology: Mechanical Components

Different Types of Motion

- Rotary moves in a complete circle, e.g. a wheel turning.
- Linear moves in a straight line, e.g. a train moving down a track.
- Oscillating moves backwards and forwards in part of a circle, e.g. a pendulum of a mechanical clock.
- Reciprocating moves backwards and forwards in a straight line, e.g. a piston or pump.



- 1. mechanical advantage = load ÷ effort
- 2. load = mechanical advantage × effort
- 3. effort = load ÷ mechanical advantage

Levers

There are three different types of levers. They are based fulcrum and load in a different order:

First order levers (Class 1) place the fulcrum between the effort and the load. Examples would be a seesaw, which places the fulcrum in the centre and allows equally weighted children to lift each other up

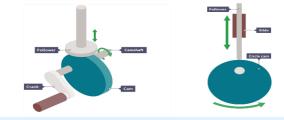
Second order levers (Class 2) place the fulcrum at one end of the lever and the effort at the other, with the load in the centre. The closer together the fulcrum and load are, the easier it is to lift the load. Examples include wheelbarrows, nutcrackers and some bottle openers.

Third order levers (Class 3) place the effort between the fulcrum and the load. If the effort and the fulcrum are further apart, it becomes easier to lift. Examples include tweezers or fishing rods.

Cams Mechanism

A cam mechanism has two main parts:

- a cam attached to a crankshaft, which rotates
- **a follower** touches the cam and follows the shape, moving up and down



Gear Trains

Gear trains are when two or more gears are joined together. In a simple gear train, the drive gear the driven gear to turn in the opposite direction.

Gear ratio = number of teeth ÷ number of teeti on driven gear on the drive gear

Pulleys

Pulleys use mechanical advantage, similar to levers, to lift up loads. Pulleys are wheel shaped with a groove that allows a cord to sit inside the groove.

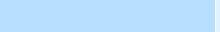
Belts can be attached around different-sized pulleys to drive shafts to change speed. As with gears, the bigger the wheel, the slower the speed. The velocity ratio between two pulleys can be calculated.

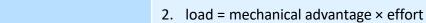
Velocity ratio = diameter of the ÷ diameter of the driven pulley driver pulley

Output speed = input speed ÷ velocity ratio

Year 10 Design and Technology: Mechanical Components

What are the different types of motion?





3. effort = load ÷ mechanical advantage

1. mechanical advantage = load ÷ effort

Load

Effort

Mechanical

advantage

Levers

There are three different types of levers. They are based fulcrum and load in a different order. Describe them below:

First order levers (Class 1)

Second order levers (Class 2)

Third order levers (Class 3)

Cams Mechanism

A cam mechanism has two main parts- what are they?

Gear Trains How do we work out the gear ratio of a gear train?

Pulleys How does a pulley work?

Belts How can we calculate the velocity ratio of a belt mechanism?



• _

• _



Year 10 Design Technology: Client & User needs

Client or Potential user profiling

Who is the target user for a product you are designing its important to consider what they will need, like or use.

- Who is your product aimed at?
- Who are your clients or potential clients?
- What do your clients want from your product? ٠
- How old are they? ٠
- Are they male or female? ٠
- Where do they live? ٠
- What are the styling features of the product they currently use?

.

- How will price change their feelings about the product? ٠
- What kind of lifestyle do they have? ٠
- What products do they use at the moment? ٠

Primary research

Primary data is information that you find yourselves. This information is 'new' and directly related to your project.

- This information could be • gathered using:
- interviews •
- questionnaires •
- analysis of products •
- materials' tests •
- observations. .

Secondary Research

Secondary data is 'second hand data which has already been collected by someone else.

Examples of secondary research include:

information from books, magazine and • newspaper articles.

- Test reports.
- internet research.

It is usually easy to find but may be out of date. It can save time as its much quicker than carrying out test, interview etc. Data is not always accurate as its not specific to the users needs.

A esthetics	What does it look like? Is it in particular style? Does it have a theme?
Cost	How much does it cost to buy? Is this good value for money?
Customer	Who is the product designed for? What age group?
Environment	Is the product environmentally friendly? Can it be recycled for example.
Size	How big is the product?
Safety	Is there any safety features? or safety warnings?
Function	What does it do? What parts does it have?
Materials	What materials is it made from?

Product Analysis

It is important to research similar products. To help you understand what is required from a product and even is some cases how it is made.

- It's a form of primary research.
- Involves looking existing products.

Working out how they were . made.

Seeing what features might be • useful to a new design.

When completing a product analysis it is best to use ACCESS FM. By using each of the keywords as a prompt

Year 10 Design Technology: Client & User needs

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Safety	Is there any safety features? or safety warnings?
Function	What does it do? What parts does it have?
Materials	What materials is it made from?

Product Analysis

Primary research	Secondary Research
Primary data is information that you find yourselves. This information is 'new' and directly related to your project.	Secondary data is 'second hand data which has already been collected by someone else.

Year 10 Design Technology: Social, Moral Economic, Environmental factors

Economic

This is about the effects a product has on the economy and is split into two types Liner economy and circular economy.

Linear economy – products are made as cheap as possible. Materials are processed into a product, the product is use, then in is simply disposed of.

Circular economy – Uses a few resources/materials and possible, using the products from as long as possible. They are designed in a way that the products can be easily repaired, reused or recycled after use.

Ergonomics

Ergonomics is the relationship between people and the products which they use.

Things to consider are:

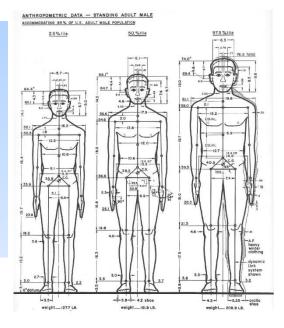
- Comfort?
- Usability?
- Intuitive?
- Knowing how?



Anthropometics

Is the study of Human Measurements, it is important to consider sizes of people in relation to products.

- 5th percentile are the 5 per cent of people who are smaller in size.
- 50th percentile are people of average size
- 95th percentile are 5 per cent of people who are larger in size



<u>Social</u>

How the social factors of a group of people can influence the design of a product.

- ethnic groups
- political groups
- religious groups.
- Cultural factors.

Year 10 Design Technology: Social, Moral Economic, Environmental factors

Economic

Ergonomics

Ergonomics is the relationship between people and the products which they use.

Things to consider are:





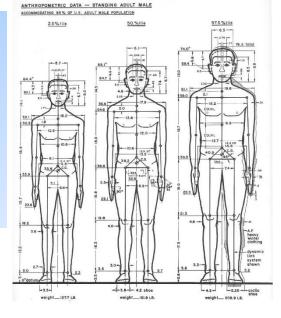
How the _____ factors of a group of people can influence the design of a product.

- •
- •
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Anthropometics

Is the study of Human_	, it is
important to consider _	of people in
relation to products.	

- •
- •
- - •



Year 10 Design Technology: Paper & Boards

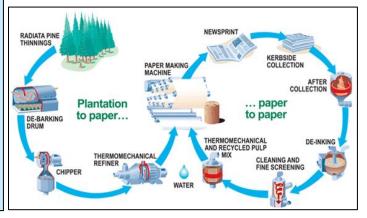
Type of paper	Properties	Uses
Layout paper	Lightweight, thin, cheap, smooth surface	Graphic drawings, animations
Bleedproof (marker) paper	Contains more chalk, smooth, hard, doesn't absorb ink, doesn't bleed	Creating special effects for designers or artists
Tracing paper	Good transparency, expensive	For seeing an image underneath
Grid paper	Covered with continuous square grid	Used in many maths contexts
Cartridge paper	Heavier weight, good quality, opaque	Writing and sketching

Weight and Thickness

Paper is selected by its thickness, measured in **grams per square metre** (gsm). This is the weight of one square metre of the paper.

Board is selected by its thickness, measured in microns. One micron is 1/1,000th of 1 mm. Sometimes the thickness of board is given in sheets, referring to the number of pieces of paper that have been glued together to make a sheet of board

Manufacture and recycling



Lamination

Paper and board can be protected further by laminating, which gives a shiny, water-resistant surface. It creates a thick, durable surface, often making the paper or board last longer. The paper or board is placed in a plastic sleeve, which is then heated and pulled through rollers, bonding the two surfaces of the film together and sealing the product.

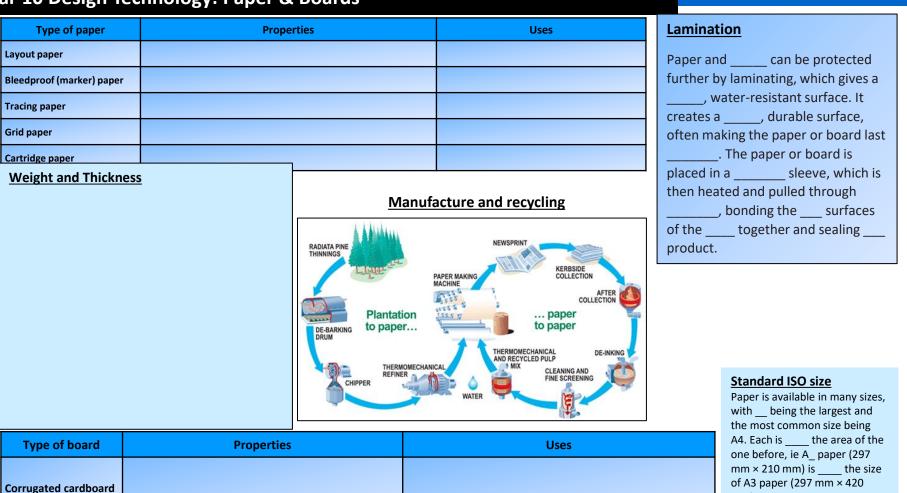
Standard ISO size

Paper is available in many sizes, with A0 being the largest and the most common size being A4. Each is half the area of the one before, ie A4 paper (297 mm × 210 mm) is half the size of A3 paper (297 mm × 420 mm).

A0	Α	1
	A2	A3
		A4 A5
-		

Type of board	Properties	Uses
Corrugated cardboard	Strong, lightweight	Packaging protection in transportation of products and used to package some hot food such as a pizza due to its insulating properties
Duplex board	Cheaper than white board, available with different finishes (metallic, holographic etc.)	Food packaging, eg biscuit boxes or containers
Solid white board	Top quality, range of thicknesses, excellent to print on	Hardback books
Foil-lined board	Expensive, good quality, aluminium foil lining, excellent barrier against moisture	Pre-packed food packages, cosmetic cartons
Inkjet board	Expensive, printable, photo quality	Posters, photography, art reproductions
Foam-core board (foam board)	Strong, lightweight, paper face, foam core	Model making, mounting photograph

Year 10 Design Technology: Paper & Boards



Type of board	Properties	Uses	A4. Each one befo
Corrugated cardboard			off A3 pap mm).
Duplex board			
Solid white board			
Foil-lined board			
Inkjet board			
Foam-core board (foam board)			L

mm).

Α

A2

A3

A4 A5

Year 10 Design Technology: Polymers

Natural & Synthetic Polymers Polymers can be made from natural and synthetic resources.

- **Synthetic polymers** are made from crude oil by scientists and engineers.
- Natural polymers are made using a variety of materials like silk, wool, cellulose and proteins.

Туре	Property	USE	
Acrylic (PMMA)	has a hard, shiny and flat surface, but will scratch easily. It can be transparent, translucent or opaque.	It is used for illuminated shop signs, bath tubs and shower trays.	
High-impact polystyrene (HIPS)	is tough, easily moulded and durable.	It is used for yoghurt pots, children's toys and fridge liners.	
High-density polythene (HDPE)	is hard, stiff and resistant to chemicals.	It is used for washing up bowls, buckets and crates	
Polypropylene (PP)	is tough, durable, and has good heat and chemical resistance.	It is used for children's toys, DVD/CD cases and medical equipment.	
Polyvinyl chloride (PVC)	is hard, tough, and has good chemical and weather resistance. It has a low cost due to high-volume production	It is used for pipes, gutters and window frames.	
Polyethylene terephthate (PET)	is tough, durable, food-safe and easily moulded.	It is used for drinks bottles and food packaging.	

Туре	Property	USE	
Epoxy resin	is easily moulded because it is in a two-part liquid form. When mixed, the resin sets hard and has good insulating properties.	It is used as an adhesive and for casing electrical components.	
Melamine formaldehyde	is stiff and hardwearing with good resistance to heat and staining.	It is used for kitchen work surfaces and picnic crockery.	
Phenol formaldehyde	is hard and is a good electrical and heat insulator.	It is used for electrical fittings and pan handles.	
Polyester resin	is easily moulded because it is in a two-part liquid form. When mixed, the resin sets hard but is brittle.	It is used to bind together the glass fibres when producing glass reinforced plastic (GRP) boat hulls and car body panels.	
Urea formaldehyde (UF)	is stiff, hard and an excellent electrical insulator.	It is used extensively for electrical fittings.	

Cellulose

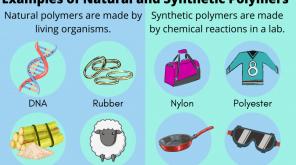
Categorisation of Polymers

Polymers are classified into two groups: thermoforming and thermosetting

Thermoforming polymers can be softened with the use of heat and moulded into shapes.

Thermosetting polymers once moulded into shape, cannot be remoulded with the use of heat.

Examples of Natural and Synthetic Polymers



Wool

Teflon Epoxy

Year 10 Design Technology: Polymers

Natural & Synthetic Polymers Polymers can be made from natural and synthetic resources.

- Synthetic polymers are
- Natural polymers are

Туре	Property	USE
Acrylic (PMMA)		
High-impact polystyrene (HIPS)		
High-density polythene (HDPE)		
Polypropylene (PP)		
Polyvinyl chloride (PVC)		
Polyethylene terephthate (PET)		

Туре	Property	USE
Epoxy resin		
Melamine formaldehyde		
Phenol formaldehyde		
Polyester resin		
Urea formaldehyde (UF)		

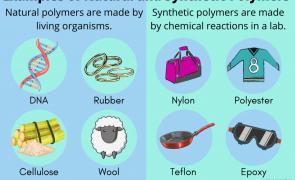
Categorisation	of Polymore	
Lateguiisatiui	UI FUIVIIIEIS	

Polymers are classified into	
groups:	and
thermosetting	

hermo	ро	lymers.
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Thermosetting polymers...

Examples of Natural and Synthetic Polymers



sciencenotes.org

Year 10 Design Technology: Metals

Categorisation

Non-ferrous

- does not contain iron
- is found in the Earth's crust in rock known as ore
- is not magnetic
- will not rust
- is malleable
- needs a protective finish which is also used to improve its aesthetic appeal.

Ferrous

- contains iron
- is found in the Earth's crust in rock known as haematite (iron ore)
- is usually magnetic
- will rust
- needs a protective coating to prevent rusting and improve its aesthetic appeal.

Types of Non Ferrous Types of Ferrous metal metals Aluminium - is lightweight, soft, ductile and **Cast iron** – has a hard surface but a brittle malleable. It is used extensively in the core. It is strong and can be cast into intricate manufacture of aircraft, canned drinks and shapes, such as vices, roadside grids and bike frames. manhole covers. ٠ **Copper** – is ductile, malleable and an Low-carbon steel – has good tensile strength, is malleable but has poor excellent thermal and electrical conductor. It is easily soldered and is resistant to resistance to corrosion. It is used extensively corrosion. It is used extensively in the in the automotive industry and in steel plumbing industry for pipes and fittings. structures (RSJ). It is also used in the manufacture of wire. High-carbon steel – is harder than low-carbon steel, but brittle. It is used Brass - technically an alloy as it is a ٠ mixture of copper and zinc. It is an excellent in the manufacture of tools. conductor of electricity and is used in electrical Mild steel - is malleable and ductile, has low tensile strength but is relatively cheap. fittings. Bronze – an alloy of copper and tin. It has excellent resistance to wear and corrosion and is used in machinery where hard wearing parts are needed

Alloys

An alloy is a mixture of two or more metals that are combined to improve the mechanical or physical property of the original metal.

Alloys are divided into two categories: ferrous and non-ferrous alloys.

Ferrous alloy

 Stainless steel – a mixture of steel, chromium, nickel and magnesium. It is very hard, very resistant to corrosion and can keep a high-quality shiny finish.

Non-ferrous alloy

- Brass a mixture of copper and zinc.
 It is very resistant to corrosion, strong, ductile, malleable and is a very good thermal and electrical conductor. Used to make taps and plumbing fittings.
- Duralumin a mixture of aluminium, copper, magnesium and manganese.
 It is lightweight, soft, ductile and malleable. It is used extensively in the manufacture of aircraft structures and fuel tanks.

Year 10 Design Technology: Metals

Categorisation Non-ferrous Alloys • . Ferrous • **Types of Non Ferrous Types of Ferrous metal** metals Aluminium – Cast iron – ٠ • Low-carbon steel -Copper – High-carbon steel -Brass – ٠

Mild steel –

An alloy is a _____ of two or more metals that are combined to improve the mechanical or _____ property of the _____ metal. Alloys are divided into ____ categories: ferrous and non-ferrous alloys. **Ferrous alloy** Stainless steel -**Non-ferrous alloy**

- Brass –

Duralumin -

Bronze –

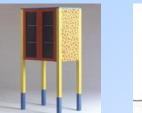
20th Century design movements

Design Movements Timeline 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2007 Arts and Crafts Movement 1850-1915 Art Nouveau 1880-1910 Moderniam 1880-1940 Futurism 1910-1945 Art Deco 1910-1940 Bauhaus 1920-1934 Surrealism 1925-1930 Streamlining 1930-1950 Organic Design 1930-1960 & 1990-Present Scandinavian Modern 1935-Prese ontemporary 1945-1960 Pop Art 1958-1972 Space Age 1960-1969 ostmodernism 1978-Presen nis 1981-1988

Memphis

- A group of Italian designers, led by Ettore Sottsass exhibited an alternative viewpoint to minimalism.
- As a reaction to the clinical lines and lack of decoration which was typical of the Modernist movement
- They introduced highly decorative laminates and produced products which were amusing.
- Whilst the movement was restricted to the early 1980s their post-modernism influence can be seen in many of today's products.







Bauhaus

- Between 1919 and 1933 the German school of art and design called the Bauhaus.
- Producing designs which were truly made for mass production.
- 30yrs later until industry caught up with this thinking and was able to manufacture the designs for products such as furniture and lighting cheaply enough and in large quantities.

Many of the designs we now regard as **design classics** originate from the Bauhaus





Art Deco

- Began in Paris in 1925
- Typically involved the use of geometric shapes and the influences from the Egyptian tomb of Tutankhamen.
- Often regarded as a very glamorous period of design.
- Ceramicist Claris Cliff is a famous designer from that period







20th Century design movements

Design Movements Timeline

1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2007 Arts and Crafts Movement 1850-1915 Art Nouveau 1880-1910 Moderniam 1880-1940

Futurism 1910-1945 Art Deco 1910-1940 Bauhaus 1920-1934 Surrealism 1925-1930 Streamlining 1930-1950 Organic Design 1930-1960 & 1990-Present Scandinavian Modern 1935-Present Contemporary1945-1960 Pop Art 1958-1972 Space Age 1960-1969 Minimalism 1967-1978 Postmodernism 1978-Present Memphis 1981-1988 Deconstructivism 1988-Present

Memphis

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- ٠
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- ٠







Bauhaus



Art Deco

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Air Bus

- Design and manufacture commercial aircraft across Europe.
- Division developing helicopters, military and space travel
- Flagship model aircraft is the A380 and is the worlds largest passenger aircraft.
- Focus on the use of composite materials to reduce weight.
- Use biometric to inspire designs (ie structure of a eagles

wing)

• Constantly developing technology to reduce fuel emissions.



Phillpe Stark

- Phillpe tark has been design products since 1980s
- Aims to improve life for people creating affordable & desirable products for the masses.
- His most well known product is 'juciy salif' a lemon squeezer inspired by a squid.
- He often uses pioneering manufacturing techniques and materails for example the injection moulded chair called 'lous Ghost' that has no visable fixings.





Apple

Sir Jonathan Ive



• An English designer he was the lead designer for Apple from 1992 to 2019.

• Created simple, sleek designs that give Apple products their iconic aesthetic appearance.

• Design have smooth round edges, simple interfaces and user friendly appeal.

• Apple are often criticized for the development of products with planned obsolesce, for example update not working on older models.

Matthew Williamson

- Matthew Williamson is a British fashion and interior designer
- Recognised by his bold and colourful designs. He mixes prints and contrasting colour
- Uses patterns, inspired by travel and nature.
- Design include have embellishment such as beading and

embroidery



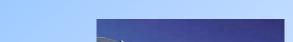
James Dyson

- An inventor and the founder of the Dyson Company employing 7000 people worldwide.
- Best know for the cyclonic bagless vacuum cleaner.
- Dyson company values innovation, efficiency and original design.



Air Bus

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Phillpe Stark

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Matthew Williamson

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James Dyson

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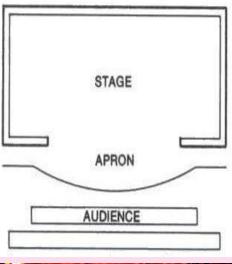
Helping every person achieve things they never thought they could.



Year 10 Drama: Staging Types

Proscenium Arch

Common in large theatres and opera houses. The proscenium refers to the frame around the stage; the area in front of the arch is called the apron. The audience faces one side of the stage directly and may sit at a lower height or on tiered seating.





Advantages:

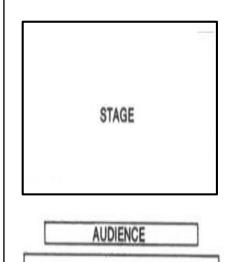
- Stage pictures are easy to create, as the audience look roughly at the same angle.
- Backdrops and large scenery can be used without blocking sightlines.
- There is usually fly space and wings for storing scenery.
- The frame around the stage adds to the effect of a fourth wall; creating a self-contained world.

Disadvantages:

- Some audience members may feel distant from the stage.
- The auditorium could feel formal and rigid.
- Audience interaction may be more difficult.

End On

This is similar to proscenium arch, as the audience faces one side of the stage directly and may sit at a lower height or on tiered seating. However, **it doesn't have the large proscenium or apron**. Our studio is set up as end on.





Advantages:

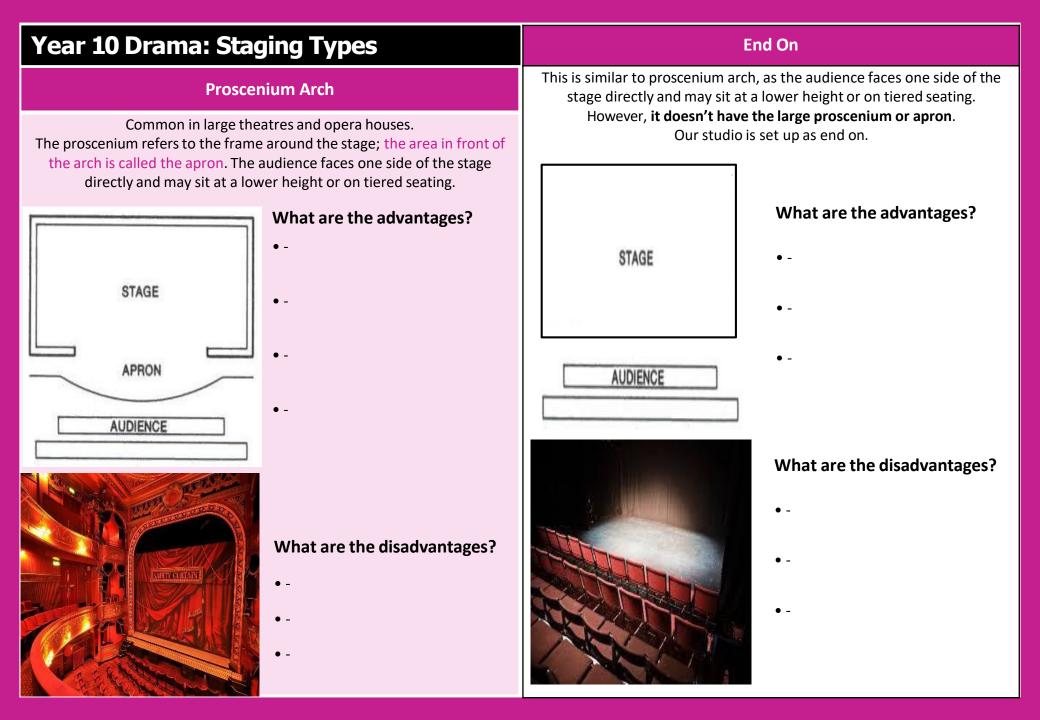
- The audience all have a similar view.
- Stage pictures are easy to create.
- Large backdrops or projections may be used.

Disadvantages:

• Audience members in the back rows may feel distant from the stage.

• It doesn't have the proscenium frame, which can enhance some types of staging.

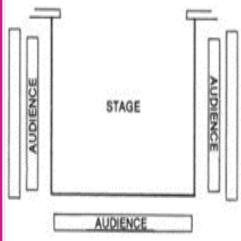
• It may not have wings or a fly area.



Traverse

Thrust

When the stage in front of the proscenium protrudes into the auditorium, so that the audience are sitting on three sides. **This is one of the oldest types of staging**; Greek amphitheatres and Elizabethan theatres like Shakespeare's Globe are both types of thrust stages





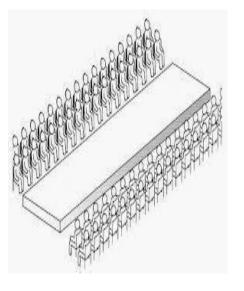
Advantages:

- As there is no audience on one side of the stage, backdrops, flats and large scenery can be used.
- The audience might feel closer to the stage there are 3 front rows.
- Fourth wall can be achieved while having the audience close to the action.

Disadvantages:

- Audience members in the back rows may feel distant from the stage.
- It doesn't have the proscenium frame, which can enhance some types of staging.
- It may not have wings or a fly area.

The acting area is a long central space and the audience sits on two sides facing each other. This type of staging can feel like a catwalk show.





Advantages:

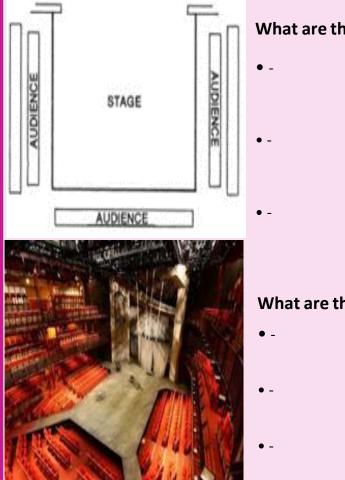
- The audience feel very close to the stage as there are two long front rows.
- Audience members can see the reactions of the other side of the audience.
- The extreme ends of the stage can be used to create extra acting areas.

Disadvantages:

- Big pieces of scenery, backdrops or set can block sightlines
- The acting area is long and thin, which can make some blocking challenging.
- Actors must be aware of making themselves visible to both sides of the audience.

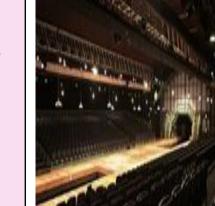
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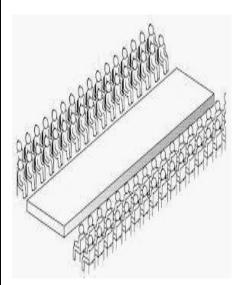


What are the advantages?

- What are the disadvantages?



The acting area is a long central space and the audience sits on two sides facing each other. This type of staging can feel like a catwalk show.



What are the advantages?

What are the disadvantages?

Traverse

Promenade

In the Round

The stage is positioned in the centre of the audience and the audience are seated around all areas of the stage. The stage/audience can either be curved (creating a circle), or more like a square or rectangle. There are usually several 'tunnel-like' entrances, these are called **vomitories**.

AUDIENCE AUDIENCE



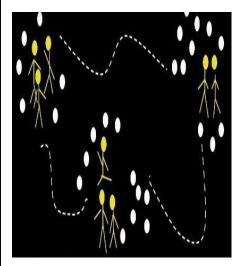
Advantages:

- The audience is close to the stage as there is an extended first row.
- The actors enter and exit through the audience which can make them feel more engaged.
- There is no easily achieved fourth wall separating the audience from the actors – it is easy to interact with them.

Disadvantages:

- Designers cannot use backdrops or flats as they would obscure the view of the audience.
- Stage furniture has to be chosen carefully so that audience sightlines aren't blocked.
- Actors must continually move around so that the audience can see them and critical interactions.

The performance areas are set in various locations in a venue. Promenade means 'to walk' and the audience follows the action on foot, moving from one performance area to another. Promenade staging is often used in site specific performances (a performance in a location that is not a conventional theatre, e.g. a street, a warehouse)





Advantages:

- Interactive style of theatre where the audience feels involved.
- No set changes or need for movement of big bulky items.
- Enables audience to be more engaged as they move from one piece of action to the next.

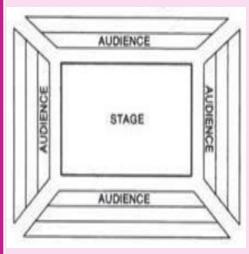
Disadvantages:

- The audience may find moving around the space difficult or might get tired.
- Actors and or crew need to be skilled at moving the audience around and controlling their focus.
- There can be health and safety risks

Promenade

In the Round

The stage is positioned in the centre of the audience and the audience are seated around all areas of the stage. The stage/audience can either be curved (creating a circle), or more like a square or rectangle. There are usually several 'tunnel-like' entrances, these are called **vomitories**.

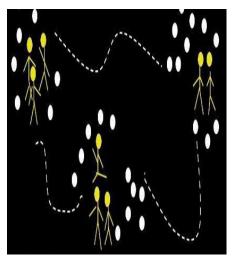


What are the advantages?

What are the disadvantages?

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- •-
- •-

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What are the advantages?

• -

What are the disadvantages?

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Context Information Author: Willy Russell

Brief Biography: Willy Russell was born in 1947 into a working-class family near Liverpool. He left school at the age of 15 without academic qualifications and became a hairdresser. By the age of 20, he felt the need to return to education and after leaving university, he became a teacher in his home city.

Social: There was a large gap between working and middle class in Britain during this time. The Johnstones and Lyons families are class stereotypes. Many working class families struggled financially and to find work. There was also a class divide in education; this is shown when Mickey goes to secondary school and Edward attends a private boarding school.

Margaret Thatcher: The first female Prime Minister in power during that time. She ward responsible for lots of working-class people losing their jobs. During her time in power, unemployment rates were raised higher than ever before. She believed everyone can be successful if they work hard.

Marilyn Monroe: A famous Hollywood movie star from the 1950s who Mrs J is compared to. She is known for being glamorous, but also struggled with depression which led her to commit suicide (by painkillers).

Mickey Johnstone	The lower-class twin. He is honest, sincere and goodhearted. He impregnates Linda, gets laid off, is arrested for Sammy's crime and ends up in prison and addicted to anti-depressants. His rage at Linda & Edward for having an affair drives the play's finale.
Edward Lyons	Is also good-natured but the higher-class twin. His sheltered upbringing makes him innocent but because of class he gets good opportunities e.g. university and a good job. His good-natured manner leads to the play's final scene.
Mrs Johnstone	Biological mother of the twins and a horde of other children. Left by her husband she gets a job as a cleaner. She is the moral centre of the play; is tortured by guilt and regret.
Mrs Lyons	Opposite of Mrs J whom she employs as a cleaner. She adopts Edward as her own child. Is haunted by the original act of a mother giving up her child. The guilt turns into suspicion and paranoia. She announces the affair and contributes to the murder of her adopted son.
Linda	Begins as a tomboyish young girl but both twins fancy her from an early stage. She only has eyes for Mickey as a teenager but later turns to Edward for comfort and support, which turns into an affair. Despite this, she loves both twins and is a sympathetic character.
Narrator	All-knowing and always slightly menacing- takes many roles throughout the play. Narrator constantly reminds the audience of the terrible choice that began this chain of events. Frequent mentions of fate and superstition but the Narrator claims it was class, not fate.
Sammy	When they are younger, Mickey just wants to be like Sammy. Quickly becomes a juvenile delinquent; even attempting to rob a bus as a teenager- he ends up in prison with Mickey.
Mr Lyons	Married to Mrs Lyons- away so Mrs L can adopt Edward. Grows increasingly concerned about his wife's mental health and wellbeing.

Key Quotations:

- ✓ Don't you know what a dictionary is?
- ✓ Y'know the devil's got y' number.
- ✓ A debt is a debt and must be paid.
- ✓ How come you got everything and I got nothin'?
- ✓ A mother, so cruel,/ There's a stone in place of her heart.
- ✓ If either twin learns that he was once a pair, they shall both immediately die.
- ✓ You've got to have an ending, if a start's been made./ No-one gets off without the price being paid.
- ✓ I could have been him.
- ✓ Do we blame superstition for what came to pass/ Or could it be what we, the English, have come to know as class?
- ✓ She's cooing and cuddling as if she were his mother. It's a, it's a thingy, innit?
- ✓ That's what's going to happen if I have anymore trouble from one of yours. I warned you last time.
- ✓ It was more of a prank, really, Mr Lyons. I'd just dock his pocket money if I was you.

Themes:

Superstition: The audience is constantly reminded of this. The narrator asks us if superstition is to blame for boys' fate.

Class: Russell shows us the injustice of the class divide with the Johnstones and Lyons, as well as M and E. Related to education, opportunity and power.

Nature vs. Nurture: Splitting up the twins shows us how the environment can have a huge impact on life chances.

Relationship: The development and change in friendship between M, E, and Linda. The interaction between Mr and Mrs L, mother and son, and Mrs J and society.

Keywords:

Protagonist, Theme, Injustice, Stigmatized, Simile, Metaphor, Juxtaposition, Dramatic, irony, Tension, Foreshadowing, Repetition, Dole, Manipulates, Prejudice, Dialogue, Ominous Vulnerable Working class, Middle class, Upper class, Act, Playwright, Stage directions Contrast, Tragedy, Superstition, Social divide recession



Context Information Author: Willy Russell

Brief Biography:

: There was a large gap between working and middle class in Britain during this time. The Johnstones and Lyons families are class stereotypes. Many working class families struggled financially and to find work. There was also a class divide in education; this is shown when Mickey goes to secondary school and Edward attends a private boarding school.

: The first female Prime Minister in power during that time. She ward responsible for lots of working-class people losing their jobs. During her time in power, unemployment rates were raised higher than ever before. She believed everyone can be successful if they work hard.

Marilyn Monroe:

	The lower-class twin. He is honest, sincere and goodhearted. He impregnates Linda, gets laid off, is arrested for Sammy's crime and ends up in prison and addicted to anti-depressants. His rage at Linda & Edward for having an affair drives the play's finale.	
	Is also good-natured but the higher-class twin. His sheltered upbringing makes him innocent but because of class he gets good opportunities e.g. university and a good job. His good- natured manner leads to the play's final scene.	
Mrs Johnstone		
	Opposite of Mrs J whom she employs as a cleaner. She adopts Edward as her own child. Is haunted by the original act of a mother giving up her child. The guilt turns into suspicion and paranoia. She announces the affair and contributes to the murder of her adopted son.	
	Begins as a tomboyish young girl but both twins fancy her from an early stage. She only has eyes for Mickey as a teenager but later turns to Edward for comfort and support, which turns into an affair. Despite this, she loves both twins and is a sympathetic character.	
	All-knowing and always slightly menacing- takes many roles throughout the play. Narrator constantly reminds the audience of the terrible choice that began this chain of events. Frequent mentions of fate and superstition but the Narrator claims it was class, not fate.	
Sammy		
Mr Lyons		

Key Quotations:

- ✓ Don't you know what a dictionary is?
- ✓ A....
- ✓ How come you got everything and I got nothin'?
- ✓ A mother,
- ✓ If either twin learns that he was once a pair, they shall both immediately die.
- ✓ You've
- ✓ I.....
- ✓ Do we blame superstition for what came to pass/ Or could it be what we, the English, have come to know as class?
- ✓ She's
- ✓ That's
- ✓ It....

Themes:

Superstition:

Class:

Nature vs. Nurture:

Relationship:

Keywords:

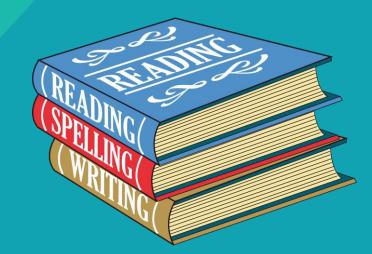


Act 2-18 years old	Act 2- the end
At 18 in the sequence, the narrator warns that soon, both	Mickey continues to take the pills despite Mrs J & Linda's pleas. Linda,
their joy and childhood will end. Edward has developed	desperate, asks Edward, now a city councilman, to find them an
feelings for Linda and is at university whilst Mickey works in	apartment and getting Mickey a job. Mickey is angry about this and a
a factory. Edward self-sacrifices his feelings and encourages	devastated Linda seeks comfort with Edward and begins an affair with
Mickey to ask Linda to be his girlfriend and she accepts. In	him. The affair continues and Mickey stops taking his pills for Linda's
October, Mickey tells his mum that Linda is pregnant and	sake. Mrs Lyons reveals Linda and Edward's affair to Mickey. Enraged,
the two will be getting married. Their wedding coincides	he takes Sammy's gun out of the floorboards and confronts Edward,
with a huge economic downturn resulting in Mickey getting	with a distraught Mrs J and Linda trying to get him to stop. The
paid off. When Edward returns from Christmas, Mickey is	narrator warns the devil has arrived. Mickey finds and confronts
downtrodden and claims 'blood brothers' is childish.	Edward at the town hall about the affair, as well as whether Mickey's
Edward confesses his love to Linda but she tells him she is	daughter is actually his. Edward denies fathering Mickey's child. The
married and pregnant. A desperate Mickey participates in a	police surround the area and Mrs J bursts in and tells the boys they are
burglary with Sammy that goes wrong resulting in Sammy	twins separated at birth. Mickey asks why he couldn't have been
killing a man. They are both sentenced to prison and Mickey	Edward and then accidentally pulls the trigger of the gun, shooting and
becomes depressed and is prescribed antidepressants	immediately killing Edward, the police then shoot Mickey. The play
which he becomes addicted to, even after he's been	ends with the boys led on the stage and the narrator wonders what
released.	really killed the twins: superstition or the class system?

	Plot	
Act 1: before birth	Act 1- 7 years old	Act 2- 14 years old
The play starts with the narrator talking about a	Mickey and Eddie meet for the first time by	Both boys have become in girls but feel awkward.
'story about the Johnstone' and men	chance at the and become ' brothers'	Edward attends boarding Mickey and Linda have
laid on the stage. We go back in time	when they find out they share the same birthday.	romantic feelings for each other but Mickey's of
where we learn Mrs Johnstone's has	When Mrs J realise the have met, she is	confidence is getting in the Sammy attempts to rob a
just her; she is very poor and already has 7	horrified and sends home. Mrs L reacts	by holding the driver at point. Mickey and Eddie
children. She starts a new cleaning Mrs	more and slaps Edward when he	both struggle at school- Mickey insults aand
Lyons' house and finds out she's expecting	swears at her. She even uprooting	Edward refuses to take off the locket. When Mrs L finds out,
twins. She up a deal with Mrs L as she	her entire family in order to escape. Despite their	she's appalled but is more upset when she sees the content
can't afford to keep so Mrs L	mothers' disapproval, the continue to see	of the The narrator returns to remind the audience
Mrs J to give her one of the babies as her	each other and play lots of children's games with	that the devil will come. Mickey and meet, by
husband is currently away on business and she	their friend, They play various and	circumstance again- Mickey takes Edward back to his but
can't have a of her own. The babies are	end up getting caught by the police who threatens	they are not that Mrs L is following them. Once the
born and Mrs J begrudgingly hands one of the	Mrs J but flatters Mr L. Mrs L decides they should	leave the house, Mrs L attacks Mrs J with a knife and
babies over for Mrs _ to later fire her. The	move, before leaves Mrs J gives a	curses her, calling her a The boys meet with Linda and
states that one day the will	locket with a picture of herself and The	spend the summer together- an idyllic follows as
punish the two women.	Johnstones also out they are being relocated.	the trio age from 14 to

Act 2- 18 years old	Act 2- the end
At 18 in the sequence, the narrator warns that soon, both	Mickey continues to take the pills despite Mrs J & Linda's pleas. Linda,
their joy and will end. Edward has developed	desperate, asks, now a city councilman, to find them an
feelings for Linda and is at university whilst Mickey works in	apartment and getting Mickey a job. Mickey is angry about this and a
a factory. Edward self-sacrifices his and	devastated Linda seeks comfort with Edward and begins an affair with
encourages Mickey to ask Linda to be his girlfriend and she	The affair continues and Mickey stops taking his for Linda's
accepts. In, Mickey tells his mum that Linda is	sake. Mrs Lyons reveals Linda and Edward's affair to Mickey. Enraged,
pregnant and the two will be getting married. Their	he takes Sammy's out of the floorboards and confronts Edward,
wedding coincides with a economic	with a Mrs J and Linda trying to get him to stop. The
resulting in Mickey getting paid off. When Edward returns	narrator warns the devil has arrived. Mickey finds and confronts
from, Mickey is downtrodden and claims 'blood	Edward at the town hall about the affair, as well as whether Mickey's
brothers' is Edward confesses his love to Linda	is actually his. Edward fathering Mickey's child. The
but she tells him she is and pregnant. A	police surround the area and Mrs J in and tells the boys they
desperate Mickey participates in a burglary with Sammy	are twins separated at Mickey asks why he couldn't have
that goes wrong resulting in Sammy a man. They	been Edward and then accidentally pulls the of the gun,
are both sentenced to prison and Mickey becomes	and immediately killing Edward, the then shoot
and is prescribed antidepressants which he	Mickey. The ends with the boys on the stage and the narrator
becomes addicted to, even after he's been	wonders what really killed the twins: superstition or the system?

English



Helping every person achieve things they never thought they could.



Year 10 English: 'A Christmas Carol' by Charles Dickens

1. Charles Dickens wrote the novella in the Victorian era, where society believed that if you were poor it was because you were idle (lazy). This was a misconception.





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0

2. Working class people actually worked very hard, for long hours, little pay and in unsafe conditions. They were exploited by Capitalist factory owners, who prioritised profit over their welfare. Children were also exploited as child labourers. As most middle and upper class business owners had the same attitudes, working class people were trapped in poverty with no opportunities to escape, through training or education.

The government has Laissez Faire attitudes towards poverty, meaning they knew it was a problem, but did not see it as their responsibility to fix it. It suited them to believe the poor did not deserve help, as it justified their decision to ignore them. The Poor Law (1834) introduced workhouses as a way to help poor people, but they were designed to humiliate and punish the poor.



4. Dickens alludes to the words of the economist Thomas Malthus, who claimed that war, famine and disease has positive impacts on the country's wealth, as it 'decreased the surplus population'. By this he meant there would be fewer working class people requiring resources. He claimed that with a growing population, **poverty was inevitable** as there would never be enough resources to support everyone. Dickens disagreed. He argued there are enough resources - they just need to be shared more fairly.

5. Victorian Britain was a God fearing society. Dickens believed that many middle/upper class people were hypocritical as they ignored the Christian values of generosity and charity. He also used Scrooge's transformation to highlight that we are all capable of **redemption** if we accept our sins and vow to change.

Writing about Literature

Point

Answer the question

Evidence

Embed a quote, or pattern of quotes that juxtapose or reinforce each other

Analyse

Explain the inferences behind the quote in detail using as/so/because/which

Zoom

Explain the connotations of a powerful word or technique has and the effect of this

Effect

Explain what the writer's intention is/ what they are trying to teach the reader

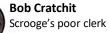
Link to Context

Explain how these ideas link to the real world

Characters



Ebenezer Scrooge Miserly money lender





Fred Scrooge Scrooge's nephew

Tiny Tim Bob's disabled son



The Ghost of **Christmas Past**

The Ghost of **Christmas Present**

The Ghost of **Christmas Yet to Come**

Belle Scrooge's ex fiancé

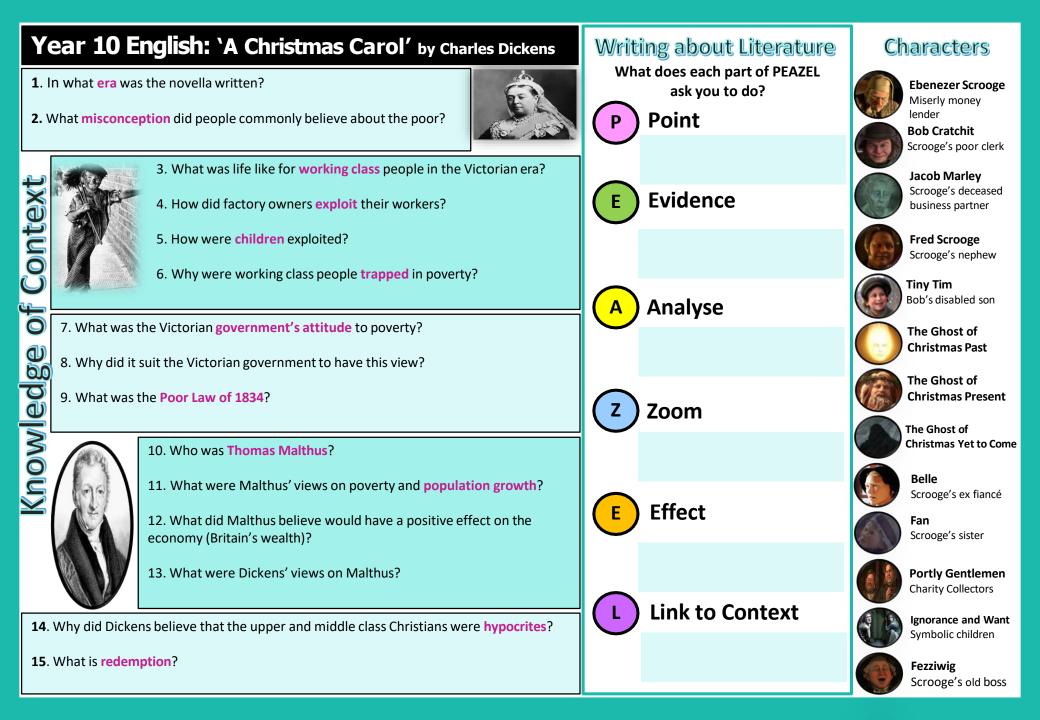
Fan Scrooge's sister

Portly Gentlemen **Charity Collectors**



Ignorance and Want Symbolic children





		Ka	Quatations	
Year 10 English:	A Christmas Carol'	by Charles Dickens	ey Quotations	
"Secret and self contained and solitary as an oyster"	<i>"If they had rather die they had better do it, and decrease the surplus population"</i>	"Are there no prisons? Are the () workhouses still in operation?"	"Dismal little cell"	"The fog came pouring in through every chink and every keyhole"
Description of Scrooge Stave 1	Scrooge, Stave 1	Scrooge, Stave 1	Description of Bob Cratchit's working conditions	Description of the weather, Stave 1
"I wear the chains I forged in life. I made them link by link and yard by yard"	"Mankind was my business!"	"Would you so soon put out the light I give?"	"A solitary child, neglected by his friends"	"Yo ho my boys!"
Marley, Stave 1	Marley, Stave 1	Ghost of Christmas Past, Stave 2	Description of Scrooge as a child, Stave 2	Fezziwig, Stave 2
"Gain engrosses you" "Another idol has displaced me…a golden one"	<i>"Bore a little crutch and his limbs were supported by an iron frame"</i>	<i>"To Mr Scrooge! The founder of the feast!"</i>	"Yellow, meagre, ragged, scowling, wolfish"	"Reeked of crime and filth and misery"
Belle, Stave 2	Description of Tiny Tim Stave 3	Bob Cratchit, Stave 3	Description of Ignorance and Want, Stave 3	Description of London slums
"Overrun by grass and weeds"	<i>"Oh, tell me I may sponge away the writing on this stone!"</i>	"No fog. No Mist. Clear, bright, jovial light. Sweet, fresh air"	<i>"I'm as light as a feather, as happy and an angel, as merry as a schoolboy"</i>	"God bless us. Everyone!"
Description of Scrooge's grave, Stave 4	Scrooge Stave 4	Description of the weather, Stave 5	Scrooge, Stave 5	Tiny Tim, Stave 5

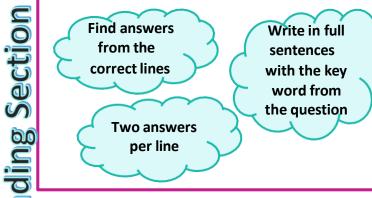
Year 10 English: 'A Christmas Carol' by Charles Dickens Complete the key quotations below:				
"Secret and	"If they had rather	"Are there no	"Dismal	"The fog
Description of Scrooge Stave 1			Description of Bob Cratchit's working conditions	Description of the weather, Stave 1
"I wear the	Scrooge, Stave 1 "Mankind	Scrooge, Stave 1 "Would you so	"A solitary	"Yo ho
Marley, Stave 1	Marley, Stave 1	Ghost of Christmas Past, Stave 2	Description of Scrooge as a child, Stave 2	Fezziwig, Stave 2
"Gain…	"Bore a little Description of	"To Mr	<i>"Yellow</i> Description of Ignorance and Want, Stave 3	"Reeked of
Belle, Stave 2	Tiny Tim Stave 3	Bob Cratchit, Stave 3		Description of London slums
<i>"Overrun</i> Description of Scrooge's	"Oh, tell me…	"No fog Description of	"I'm as light	"God bless
grave, Stave 4	Scrooge Stave 4	the weather, Stave 5	Scrooge, Stave 5	Tiny Tim, Stave 5

Year 10 English: English Language Paper 1

Question 1

List four things you learn about...

- 4 marks
- 5 mins (as part of your reading time)



Question 2

How does the writer use language to ...?

Effect

Explain in detail the

meanings created

the reader's

response

(as/so/because/which)

- 8 marks
- 10-12 mins
- **3 x ZE paragraphs**

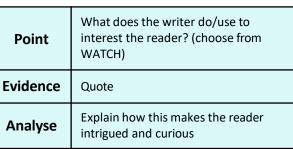
Zoom Pick a powerful word or language

technique Identify the connotations created

Ouestion 3

How does the writer structure the text to interest the reader?

- 8 marks 10-12 mins
 - 2 PEA paragraphs
 - **1 PEA about the opening**
 - **1 PEA about the ending**





Withholding Information –

What does the writer not tell us to make us curious?

Atmosphere – What



atmosphere is created and why is this intriguing?

Topics/Themes– Which topics

and themes do we focus on? Why does this hold our attention?



Η

Characters-Why are we engaged by the character?

Hints- What do we expect to happen next? What is foreshadowed?

Ouestion 4

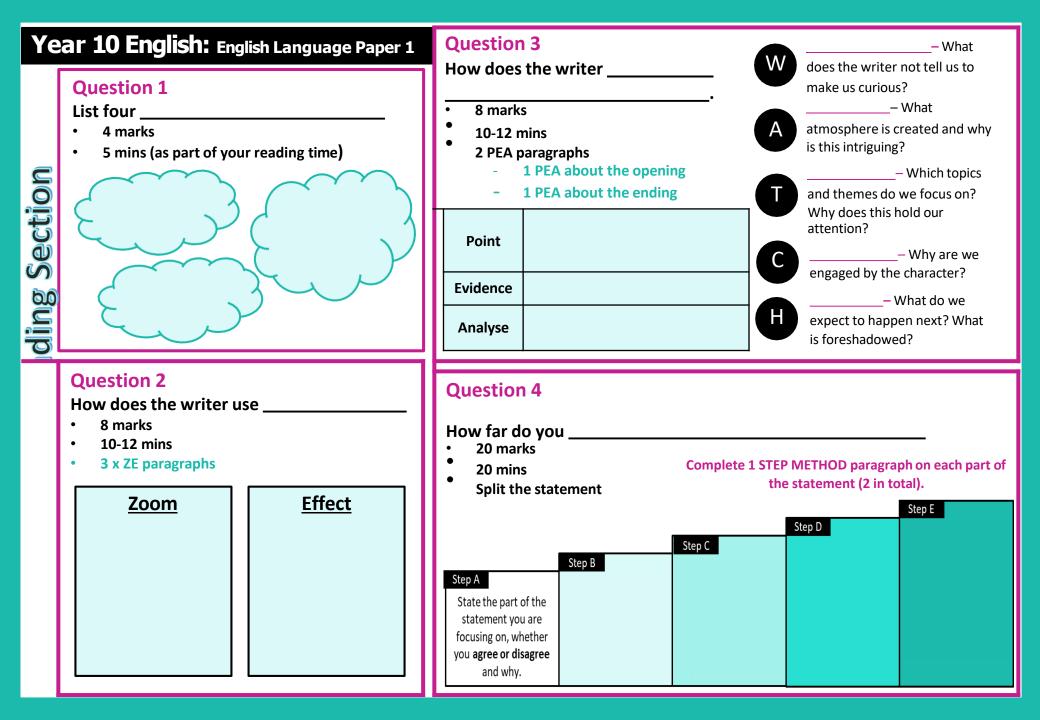
How far do you agree of disagree (with the statement)?

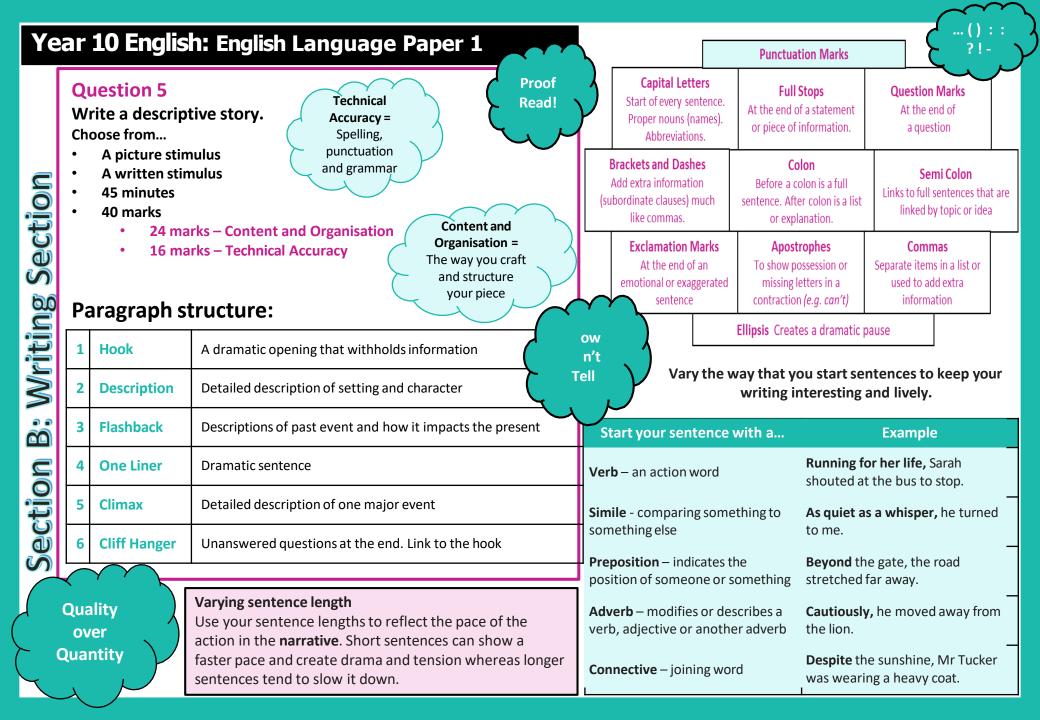
- 20 marks
- 20 mins

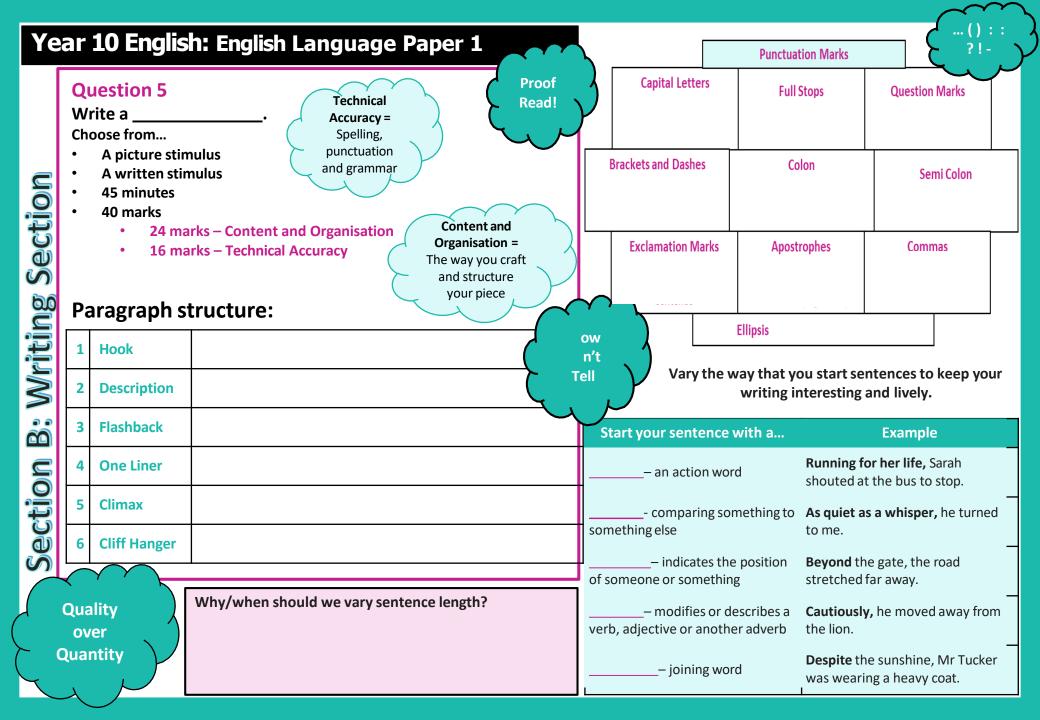
Solit the statement

Complete 1 STEP METHOD paragraph on each part of the statement (2 in total).

ement			
			Step E
		Step D	
	Step C	Zoom in on 2+	
Step B	Analyse the	methods or powerful	Summarise which you
	inferences behind the	words.	agree or disagree.
Embed a quote (or	quotes.	Identify connotations	
pattern of quotes) to	Explain what they	and explain the	Start with the word,
prove that your	prove about the	effects.	Overall
judgement is accurate.	statement.	As/so/because/which	
	As/so/because/which		
	Step B Embed a quote (or pattern of quotes) to prove that your	Step CStep BAnalyse theInferences behind theEmbed a quote (orpattern of quotes) toprove that yourprove that yourjudgement is accurate.Step C	Step DStep CZoom in on 2+Step BAnalyse the inferences behind the quotes.Words.Embed a quote (or pattern of quotes) to prove that yourExplain what they prove about the statement.Identify connotations and explain the effects.







1. Macbeth was written in 1606 the **Jacobean era**, under the reign of **James 1**. Shakespeare deigned the play to please the king, setting it in **Medieval Scotland** (as James 1 was Scottish) in the 1000s and explored the theme of the **supernatural**, as this was a fascination of the king.



2. A common belief in the Jacobean era was that everything had its place in the universe, which had been set out by God. This order was called **The Great Chain of Being** that included everything from God and the monarch at the top to plants and rocks at the bottom. If the order was disrupted, the universe **would descend into chaos** to correct the

3. Alongside this was the belief in **The Divine Right of Kings**. This was the belief that the monarch was chosen by God to be their representative on Earth. Therefore, their word was God's word. If you displeased the monarch, you would displease God and be punished. James 1 often spoke about this belief, to keep his God-fearing people under control.



4. James 1 spent much of his reign feeling insecure as a protestant king. In 1605, a group of Catholic rebels attempted to assassinate the king by exploding the Houses of Parliament, as they wished England to be ruled by a protestant monarch. This was know as **The Gunpowder Plot**. Even though the plot failed, James was left feeling vulnerable. A year later, Shakespeare wrote Macbeth to warn his audience that anyone who commits **regicide** will be punished in life and after death.

5. Many critics argue that the play is very closely linked to **The Original Sin** - this is one of the first stories of The Bible. In the Garden of Eden, the devil (in the form of a serpent) tempts Eve to persuade Adam to eat the forbidden fruit - the first sin of mankind. Christians believe that as we all descend from Adam and Eve, we have all **inherited the capacity to sin**. No person is fully good or fully evil and we should all use our free will to choose righteousness. This message occurs throughout the play.

Writing about Literature



Answer the question



Evidence

Embed a quote, or pattern of quotes that juxtapose or reinforce each other

A Analyse

Explain the inferences behind the quote in detail using so/because/which Z Zoom

Explain the connotations of a powerful word or technique has and the effect of

Effect

Explain what the writer's intention is/ what they are trying to teach the reader



Link to Context

Explain how these ideas link to the real world

<u>Characters</u>

Macbeth Thane and later king Lady Macbeth Macbeth's Wife Duncan King at the start of the play Malcolm Duncan's son and Dônalbain Duncan's youngest son Banquo Macbeth's friend Fleance Banquo's son The Weird Sisters Three Witches Macduff Thane of Fife Lady Macduff Macduff's wife Ross A Scottish Thane Hecate Queen of the witches

Macdonald

Traitor



Who was Ki When was t	he play written? ng at the time? he play set? akespeare design the play to interest the King?		Writing about Literature P Point	Characters Macbeth Lady Macbeth
	What was The Great Chain of Being? What was at the top of the chain? What was at the bottom of the chain? What would happen in the chain was disrupted?	_	E Evidence	Duncan Malcolm
0	The Divine Right of Kings? ames 1 talk about this belief a lot?		A Analyse	Donalbain Banquo Fleance
	What happened in The Gunpowder Plot? How did this leave James 1 feeling?		Z Zoom	The Weird Sisters
What is th	How does the play reflect this? e story of The Original Sin?		E Effect	Lady Macduff Ross
	hristians believe about Good and Evil? s reflected in the play Macbeth?	2	Link to Context	Hecate Macdonald

"Fair is foul and foul is fair, hover through fog and filthy air" The Witches	"So foul and fair a day I have not seen" Macbeth's first line	"O valiant cousin! Worthy gentlemen" Duncan about Macbeth	"Unseamed him from knave to chaps and placed his head upon our battlements" Soldier about Macbeth killing Macdonald	"Whose horrid image doth unfix my hair and make my seated heart knock against my ribs" Macbeth when he heard the witches' prophecies
"I do fear thy nature is too full of the milk of human kindness" Lady Macbeth about Macbeth	"Come you spirits () unsex me here () fill me with direst cruelty" Lady Macbeth before Macbeth returns home	"Take my milk for gall" "Make thick my blood" Lady Macbeth to the spirits before Macbeth returns home	"I would have plucked my nipple from its boneless gums and dashed it's brains out, had I so have sworn to you" Lady Macbeth manipulating Macbeth	"I have no spur to prick the sides of my intent, only vaulting ambition" Macbeth to himself
"Look like the innocent flower but be the serpent under it" Lady Macbeth to the Macbeth	"Will all Great Neptune's Oceans wash this blood clean from my hands" Macbeth after regicide	"I fear thou has played most foully for it" Banquo, after Macbeth is King	"False face must hide what the false heart doth know" Macbeth to himself	"Fly good Fleance! Fly!" Banquo when murderers attack him
"Never shake thy gory locks at me" Macbeth to Banquo's ghost	"All the perfumes of Arabia will not sweeten this little hand" Lady Macbeth sleepwalking	"Til Birnham Wood move to Dunsinane I shall not taint with fear" Macbeth before his death	"Turn hellhound. Turn" Macduff to Macbeth before he kills him	"The dead butcher and his fiendlike queen" Malcom as king, about Macbeth

"Fair is	"So foul	"O valiant	"Unseamed him	"Whose horrid image
The Witches	Macbeth's first line	Duncan about Macbeth	Soldier about Macbeth killing Macdonald	Macbeth when he heard the witches' prophecies
"I do fear thy nature	"Come you …	"Take my "Make thick	"I would have plucked	"I have no spur
Lady Macbeth about Macbeth		Lade March the the entities		
	Lady Macbeth before Macbeth returns home	Lady Macbeth to the spirits before Macbeth returns home	Lady Macbeth manipulating Macbeth	Macbeth to himself
"Look like the	"Will all Great	"I fear thou	"False face must hide	"Fly good
				119 5000
Lady Machath to the Machath				
Lady Macbeth to the Macbeth	Macbeth after regicide	Banquo, after Macbeth is King	Macbeth to himself	Banquo when murderers attack him
		Banquo, after Macbeth is King	Macbeth to himself	Banquo when murderers attack him
Lady Macbeth to the Macbeth "Never shake	Macbeth after regicide "All the perfumes …	Banquo, after Macbeth is		Banquo when murderers
		Banquo, after Macbeth is King	Macbeth to himself	Banquo when murderers attack him
		Banquo, after Macbeth is King	Macbeth to himself	Banquo when murderers attack him

Ozymandias by Percy Shelley

"Ozymandias" tells the story of a broken statue that once represented a powerful king. Time and nature have destroyed the statue, showing the fleeting nature of human accomplishments. The poem teaches us that even the mightiest rulers and empires will eventually fade away, reminding us of the importance of humility. The poem is written in the form of a sonnet (traditional love poem) to symbolise the self love of the pharaoh and the ego of mankind.

Key Quotes

Quotes

Key

"My name is Ozymandias, King of Kings, Look upon my works you mighty and and the h

" "the hand that mocked them and the heart that fed"

"the decay of that colossal wreck"

Shelley was a Romantic poet who had a deep appreciation for nature and criticised the government, monarchy and absolute power.

London by William Blake



"London" by William Blake is a poem that explores the negative aspects of city life during the Industrial Revolution. It describes the author's observations of poverty, despair, and the loss of innocence among the people he encounters. The poem criticises the government and the monarchy's Laissez Faire attitudes that contribute to their suffering and emphasises the need for compassion and social change.

Blake includes an allusion to the French Revolution, where the people of France revolted and beheaded the monarchy, to glamourise the idea of a revolution in Britain.

"Mind-forged manacles I hear"

"Soldiers sigh runs in blood down palace walls" "Where the chartered Thames does flow"

Blake was a Romantic poet who did not trust the government or the monarchy and wished to draw attention to the suffering of the poor (particularly children) in his work.

Comparing Poetry Point Answer the question Evidence

Embed a quote, or pattern of quotes that juxtapose or reinforce each other

Analyse

Explain the inferences behind the quote in detail using as/so/ because/which

Zoom

Explain the connotations of a powerful word or technique has and the effect of this

Effect

Explain what the writer's intention is/ what they are trying to teach the reader

Link to Context

Explain how these ideas link to the real world

C

Ζ

Compare to second poem in detail

Explain similar or different meanings, messages and methods

 Ozymandias by Percy Shelley 1. What is the focus of the poem? 2. What destroys the statue? 3. What does the poem teach us? 4. What form is the poem written in? 5. What does this form symbolise? 	Comparing Poetry P Point E Evidence
Image: Set of the set of	A Analyse
London by William Blake	Z Zoom
 What does the poem focus on? What does the poet see as he walks around the city? What does the poem criticise? 	E Effect
4. What allusion does Blake include?5. What does he include this allusion?	Link to Context
Soldiers sigh "Where the" "Where the" What did Blake want to change about society?	C Compare to second poem in detail
	C Compare to second poem in detail

Extract from The Prelude by William Wordsworth

In "The Prelude" by William Wordsworth, the speaker reflects on a childhood experience of being overwhelmed by the power of nature. He remembers a moment when he rows a boat on a lake, and suddenly a majestic mountain emerges from behind a curtain of mist, leaving him in awe. The moment frightens and humbles him and he dreams about it for a long time after.



dreams"

The poem is written in one long stanza with enjambment throughout, to emphasise the lack of control the speaker

Quote

"went heaving through the water like a swan"

"huge peak. Black and huge "huge and mighty forms as if with voluntary power (...) were a trouble to my instinct."

Wordsworth was a Romantic poet who had a deep appreciation for nature's everlasting power and often used nature to escape from conflict in his family

<u>ast Duchess by Robert Brownin</u>



Quotes

Key

"My Last Duchess" by Robert Browning is a poem in which a wealthy Duke speaks about his former wife, who he had killed because of her alleged flirtatiousness. The Duke reveals his jealousy and possessiveness, as well as his desire for control and power. It offers a chilling insight into the mind of a man who sees women as objects to be possessed and controlled.

Browning writes the poem as a dramatic monologue to represent the Duke's ego, status and control, as he is the only character talking without interruption. We only hear his perspective on his relationship.

"(None puts back the curtains I have drawn for you but I)"

"White mule she rode around the terrace"

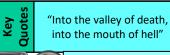
"Notice Neptune taming a sea horse which Claus of Innsbruck cast in bronze for me!"

Browning was a Romantic poet of the Victorian era, which was a patriarchal time period that placed a high importance on the social status of the bourgeoisie.

The Charge of the Light Brigade by Alfred Lord Tennyson

"The Charge of the Light Brigade" recounts a heroic but tragic event of The Battle of Balaclava in the Crimean War. It describes the courage and loyalty of a brigade of British cavalry soldiers as they obey a misunderstood order to charge into enemy lines, despite being outnumbered and facing certain death. The poem honours their bravery and self-sacrifice, but raises questions about how far army leaders can be trusted. Tennyson uses biblical allusions to 'the valley of death' to imply that God was with these heroic men.





"There's not to reason

why. There's but to do and die"

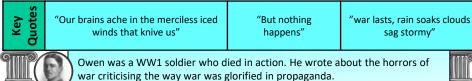
"The noble 600"

At this time, most poetry presented war as heroic, glorious and an exciting adventure; writing such a critical poem was unusual for this time period.

Exposure by Wilfred Ov



"Exposure" by Wilfred Owen is a powerful war poem that captures the harsh reality of soldiers in World War I, that was a contrast to the glory of war promised by Government propaganda. It vividly describes the freezing conditions, fear, and despair they face. Through haunting imagery and vivid descriptions, Owen exposes the brutality and futility of war, urging us to remember its devastating consequences. Owen personifies the wind to emphasise its power and how the soldiers were just as vulnerable to the destructive forces of nature as the German armv.



Extract from The Prelude by William Wordsworth

1. What does the speaker reflect on in the

poem?

2. What happens on the speakers' journey across the lake?



4. How is the poem structured?

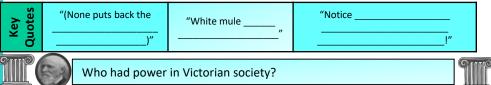
 "went heaving _____"
 "huge peak _____"
 "huge and mighty _____"

What was Wordsworth inspired by?

My Last Duchess by Robert Browning



- 1. What is the poem about?
- 2. What does the poem reveal about the Duke?
- 3. How does the Duke view women?
- 4. Give 2 reasons why Browning wrote the poem as a dramatic monologue.

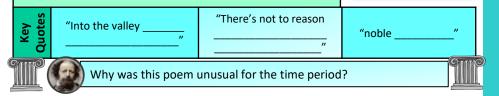


The Charge of the Light Brigade by Alfred Lord Tennyson

- 1. What battle is the poem about?
- 2. Why were the soldiers in this battle so

heroic?

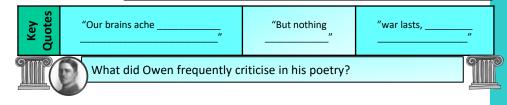
3. What questions does the poem raise?



Exposure by Wilfred Owen



- 1. What does the poem focus un?
- 2. What is described in the poem?
- **3.** What does Owen want the reader to remember from the poem?
- 4. Why does Owen personify the wind?



Storm on the Island by Seamus Heaney

"Storm on the Island" by Seamus Heaney is a poem that explores the power of nature and its impact on human beings. Set on a remote island, the poem describes the fear and vulnerability experienced during a storm. Heaney emphasises the resilience of people and the need to unite in the face of adversity. The poem is an extended metaphor, that symbolises 'The Troubles' in Northern Ireland. This is created by the semantic field of war, that is used throughout the



"spits like a tamed cat turned savage"

Key

Quotes

Key

"We are bombarded "s by empty air" cor

"sea is company, exploding comfortably down the cliffs"

The Irish Troubles was a conflict in Northern Ireland (1960s-1990s) between Irish Nationalists (who wanted an independent Ireland) and Unionists (who wanted to remain part of the United Kingdom). The conflict involved bombings, shootings, riots and officially ended with the signing of the Good Friday Agreement in 1998.

Bayonet Charge by Ted Hughes



"Bayonet Charge" by Ted Hughes portrays the chaos and horror of war. It follows a soldier who impulsively charges into battle, driven by fear and survival instincts. Through vivid descriptions and intense imagery, Hughes exposes the brutality and dehumanising nature of war, questioning its purpose and consequences.

Hughes uses the symbol of a distressed "yellow hare" to symbolise how the solider himself is in turmoil. This could also be a symbol for how war destroys nature as well as mankind.

"suddenly he awoke and was running" "Yellow hare that rolled like a flame and crawled in a threshing circle" "Terror's touchy dynamite"

Many soldiers in WW1 were shocked at the horrific and traumatic conditions of war when they reached the trenches; propaganda had promised them glory and adventure, but the reality of conflict juxtaposed this.



Remains by Simon Armitage

"Remains" by Simon Armitage is a poem that explores the psychological impact of war on an individual. It follows a soldier haunted by guilt after shooting a looter in a conflict, as the forced used to 'tackle' him could be seen as unreasonable. The poem raises questions about the morality of war and the lasting trauma it inflicts on those involved.

Armitage repeats the phrase 'probably armed, possibly not' to

emphasise the uncertainty the soldier feels as he considers



"I traced the inscriptions on

	now	ne took a numan me.		Sector A Company
	Key Quotes	"probably armed, possibly not"	"tosses his guts back into his body"	"The drink and the drugs won't flush him out"
1001		Many coldiers face D	act Traumatic Stracs Disordor	(DTSD) after they have

Many soldiers face Post Traumatic Stress Disorder (PTSD) after they have returned from war.

Poppies by Jane Weir

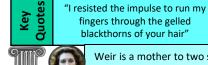


how he took a human life

"Poppies" by Jane Weir explores the emotions of a mother whose son has gone off to war. It delves into her memories of him, the anxiety and fear she experiences, and her longing for his safe return. The poem reflects on the sacrifices and heartache associated with conflict. At the end of the poem it is suggested that he has died, yet we are left uncertain, representing the constant uncertainty felt by families of soldiers in war time.

When the mother removes the 'white cat hairs' from her son's uniform, it symbolises her removing his childhood innocence and the comfort of home.

"The world overflowing



 fingers through the gelled blackthorns of your hair"
 ine wond overnowing like a treasure chest"
 the war memorial and leant against it like a wishbone"

 Weir is a mother to two sons so empathises with the grief felt by mothers of
 method overnowing

Weir is a mother to two sons so empathises with the grief felt by mothers of fallen soldiers. The poppy is a symbol of remembrance in all wars.

Storm on the Island by Seamus Heaney

1. What is the poem about?

for?

- 2. What happens in the poem?
- 3. What does the poet emphasise?
- 4. What is the poet an extended metaphor



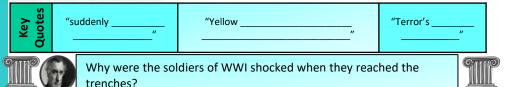


-Bayonet Charge by Ted Hughes



1. What is the poem about?

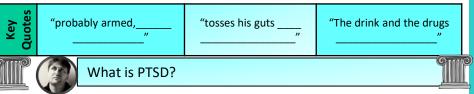
- 2. What does the poem make us realise and question?
- 3. List 2 things the 'yellow' hare' could symbolise.



Remains by Simon Armitage

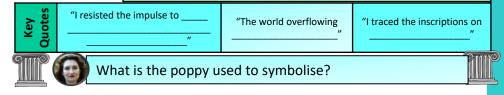
- 1. What is the message of the poem?
- 2. What/who is the poem about?
- 3. What does the poem question?
- 4. What phrase does Armitage repeat?
- 5. Why does Armitage use repetition?

S-1-1-



Poppies by Jane Weir

- 1. Who is the focus of the poem?
- 2. What does the speaker think about in the poem?
- 3. What happens at the end of the poem?
- 4. Why might the poet have chosen this ending?
- 5. What could the 'white cat hairs' symbolise?



War Photographer by Carol Ann Duffy

"War Photographer" by Carol Ann Duffy explores the experiences of a photographer capturing the horrors of war. It highlights the contrast between the photographer's detached professional life and the emotional impact of witnessing suffering. It raises questions about the morality of taking these images, the impact they have in the media and the responsibility of bearing witness.



Duffy lists countries where war occurs from across the world, to symbolise widespread and inescapable conflict.



"Fields which don't explode beneath the feet of children running in nightmare heat"

"Blood stained into foreign dust" "their eyeballs prick with tears"



The media buy the most shocking war photographs to share. This can be seen a spreading awareness but also making money from people's suffering

The Emigree by Carol Rumens



"The Emigree" by Carol Rumens is about a refugee who has left their home country and reflects on their memories of it. The speaker describes their city with vivid imagery and fondness, while also acknowledging the hardships and changes that forced them to leave. The poem explores themes of identity, nostalgia, and the impact of political events on individuals. The speaker personifies her home country to emphasise her

The speaker personifies her home country to emphasise her unbreakable loyalty and connection to it.



Tissue by Imtiaz Dharker

"Tissue" by Imtiaz Dharker reflects on the significance of paper in our lives. It explores how paper, like human connections, can be fragile yet powerful. The poem encourages us to value the small moments and relationships that shape our lives, reminding us of their value.

Dharker uses an ambiguous title that could refer to fragile paper or human flesh. This is to highlight that human life is as delicate as tissue paper.



ets the	"Maps too. The
ugh, this	shines through
lalter	borderlines

bo. The sun"Fine slips from groceryrough theirshops (...) might fly ourerlines"lives like paper kites"

Dharker explores how paper overpowers humans and causes conflict across the world (maps, religious documents, money).

Checking Out Me History by John Agard



"Checking Out Me History" by John Agard explores the importance of learning about neglected or overlooked figures from history, particularly those of non-Western backgrounds. The speaker challenges the traditional curriculum and calls for a more inclusive representation of diverse cultures and achievements. The poem celebrates the strength and resilience of individuals who have been marginalised, encouraging readers to question and reclaim their own histories.

Agard juxtaposes the 'nonsense' of nursery rhymes with the inspirational stories of non-western figures to question the National Curriculum.

Key	"Dem tell me what dem	"Blind me to my own	"Florence Nightingale"
Quotes	want to tell me"	identity"	"Mary Seacole"
	Agard criticises the 'Euroce education he received as a	ntric' view of history and wh child in Britain.	ite supremacy in the

War Photographer by Carol Ann Duffy

- 1. What is the poem about?
- 1. What does the poem raise questions about?
- 3. Why does Duffy list countries affected by war?





"F	Fields which don't explode	"Blood	"their eyeballs"
E	How can publicising images of v negative?	var be seen as positiv	e as well as 🅤

The Emigree by Carol Rumens

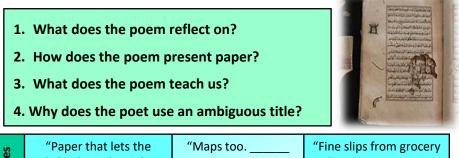


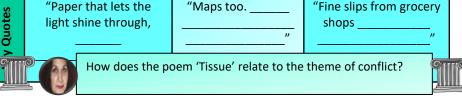
1. What is the poem about?

- 2. What does the speaker discuss in the poem?
- 3. What themes are explored in the poem?
- 4. Why does the speaker personify their home

Key Quotes	"It may be at war,"	"I am branded by "	"I have no passport.	
	How are refugees ofte	n judged?	1	ľ

Tissue by Imtiaz Dharker

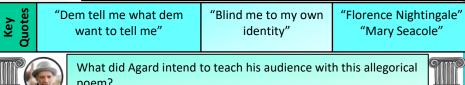




<u>Checking Out Me History by John Agard</u>



- 1. What is the poem about?
- 2. What does the speaker want to change about what is taught at school?
- 3. What does the poem celebrate?
- 4. How does the poet use juxtaposition?





What did Agard intend to teach his audience with this allegorical poem?

Kamikaze by Beatrice Garland

"Kamikaze" by Beatrice Garland tells the story of a Japanese pilot who contemplates a suicide mission during World War II. It explores the conflict between personal identity and societal pressures. The poem raises questions about the value of individuality and the consequences of blindly following orders, as the pilot is ostracised by his family and community for deciding to return from the mission.



Garland uses lots of natural imagery to explore the impact of war on nature but also to question whether war and conflict is a natural way to behave.

Key Quotes	"Shaven head full of powerful incantations"	"one-way journey into history"	"He must have wondered which had been the better way to die"	
---------------	---	-----------------------------------	--	--



In WWII, Japanese people were socially conditioned to glorify Kamikaze pilots. If they returned from the suicide mission they would bring shame upon themselves and their families.

Poetic Form	Explanation	Examples
Sonnet	A poem of 14 lines, traditionally a love poem	Ozymandias
Narrative Poem	Tell a story to present an individual's experience	The Prelude, Kamikaze, Poppies
Dramatic Monologue	A single character speaks directly to an audience.	My Last Duchess
Free Verse Poem	Poems that do not follow any specific rhyme or rhythm patterns	Tissue, War Photographer

Poetic Methods

Metaphor: comparing two things without using "like" or "as," creating vivid and imaginative descriptions. Imagery: using descriptive language to create sensory experiences, painting a vivid picture in the reader's mind. Enjambment: when a sentence or phrase continues onto the next line without a pause or punctuation, creating a flow and adding emphasis.

Semantic Field: a group of words related to a specific theme or topic, creating a focused and consistent image.

Caesura: a pause or break in the middle of a line of poetry, often marked by punctuation.

Ambiguity: using language or descriptions that can be interpreted in more than one way, allowing for different meaning.

Symbolism: using objects, images, or actions to represent deeper meanings or ideas.

Allusion: making references to well-known people, events, or stories from literature, history, or mythology.

Repetition: repeating words, phrases, or lines for emphasis. **Onomatopoeia**: using words that imitate or mimic sounds, adding a sense of realism or creating a particular mood.

Kamikaze by Beatrice Garland

- 1. What story is told in the poem?
- 2. What conflict is explored?
- 3. What questions does the poem raise?
- 4. Why does the poet use lots of natural imagery in the poem?





In WW2, how did Japanese people view Kamikaze pilots?



Poetic Form	Explanation	Examples
Sonnet		
Narrative Poem		
Dramatic Monologue		
Free Verse Poem		

Complete the definitions of each method A metaphor is... Imagery is... Enjambment is... A <u>semantic field</u> is... Ambiguity is... Symbolism is... An allusion is...____ Repetition is... Onomatopoeia is...

Poetic Methods

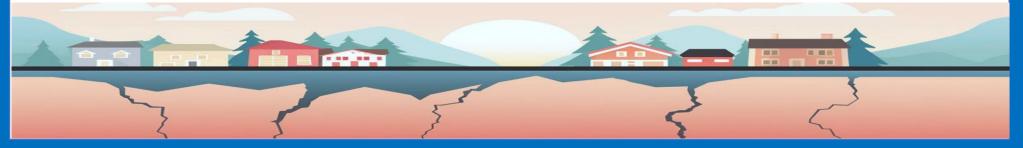
Geography

Helping every person achieve things they never thought they could.



Year 10 Geography: Natural Hazards - Tectonic hazards				12. Plate Margins	
Key Vocabulary		Where plate edges meet a plate margin is formed:			
1	Earthquake	A sudden or violent movement within the Earth's crust followed by a series of shocks			
2	Immediate responses	The reaction of people as the disaster happens and in the immediate aftermath	• Conserved Conserve	servative : plates move past other	
3	Long-term responses	Later reactions that occur in the weeks, months and years after the event		tructive: plates move towards other and one is subducted	
4	Monitoring	Recording physical changes to help forecast when and where a natural hazard might strike	• Constructive : plates move away from each other		
5	Planning	Actions taken to respond to, and recover from, natural disasters	Plate Tectonic Theory		
6	Prediction	Attempts to forecast when and where a natural hazard will strike	13	Inner core, outer core, mantle and crust	
7	Primary effects	The initial impact of a natural event on people and property		Crust pieces are called	
8	Protection	Actions taken before a hazard strikes to reduce its impact	14	tectonic plates	
9	Secondary effects	The after-effects that occur as indirect impacts of a natural event	15	Convection currents cause magma to move in	
10	Subduction	A process occurring at destructive plate margins where a heavier oceanic plate is forced under a continental plate		circular movements	
11	Tectonic hazard	A natural hazard caused by movement of tectonic plates	16	Convection currents cause tectonic plates to move	

Year 10 Geography: Natural Hazards - Tectonic hazards 12. Plate Margins				
Key Vocabulary			Where plate edges meet a plate margin is formed:	
1	Earthquake		Conservative:	
2	Immediate responses		• Destructive:	
3	Long-term responses			
4	Monitoring		Constructive:	
5	Planning		Plate Tectonic Theory	
6	Prediction		13	
7	Primary effects			
8	Protection		14	
9	Secondary effects		15	
10	Subduction			
11	Tectonic hazard		16	



Year 10 Geography: Natural Hazards - Tectonic hazards

Contrasting earthquake case studies:

	Primary Effects		Secondary Effects		Immediate Response			Long-Term Response		
Nepal 2015 (LIC)	17	 9000 deaths 7,000 schools destroyed Water supplies cut off 	19	 3 million homeless International airport congested 	21	 UK and India sent search and Rescue Half a million tents given 	23	 Over 7000 schools rebuilt Stricter controls on building quality 		
New Zealand 2016 (HIC)	18	 5 deaths 60 people needed emergency housing 	20	 The earthquake triggered a tsunami 5m in height. 100,000 landslides were triggered. 	22	 A tsunami warning was issued 100s of people were housed in emergency shelters 	24	 Roads and railways were repaired and reopened within 2 years Earthquake proof water pipes were installed. 		

 Management of Tectonic Hazards:

 Planning
 Hazard maps showing areas at risk

26	Prediction	Measuring sulphur from volcano Seismometers measure vibrations		
27	Protection	Earth embankments divert lava Earthquake resistant buildings		

Living with Risk

28 Geothermal energy to power homes and industry29 Dramatic scenery attracts tourists

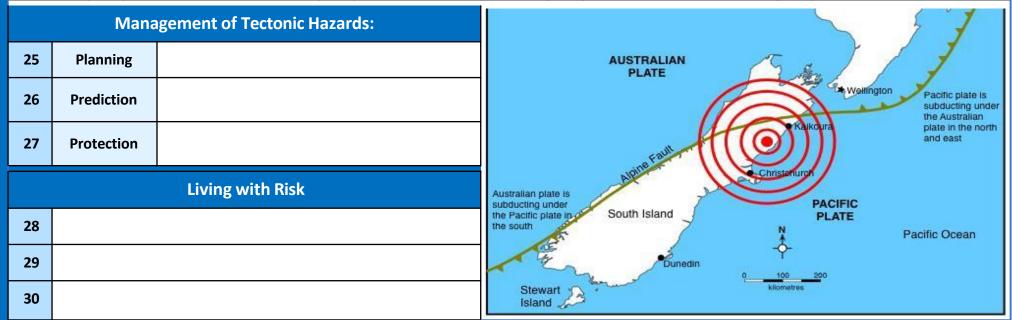
25

30 Lava and ash deposits provide valuable nutrients for soil



Year 10 Geography: Natural Hazards - Tectonic hazards

	Contrasting earthquake case studies:									
		Primary Effects	Secondary Effects		Immediate Response			Long-Term Response		
Nepal 2015 (LIC)	17		19		21		23			
New Zealand 2016 (HIC)	18		20		22		24			



Year 10 Geography: Urban Issues and Challenges

Key Vocabulary



1	Economic opportunities	Opportunities to improve standard of living			
2	Megacity	A city over 10 million people	10		
3	Multiplier effect	 → Factories are built → Jobs are provided in factories → Increase in taxes → Taxes reinvested in local infrastructure 	11		
4	Sanitation	Provision of clean water and disposal of sewage and waste	12		
5	Squatter settlement	An area of illegal and informal housing that is poor quality			
			13		
6	Favela	A squatter settlement in Brazil			
7	Urbanisation	An increase in the proportion of people moving to urban areas	14		
			14		
8	Push factor	Something that pushes someone away from an area			
0	Fusitiactor	(e.g. lack of access to water)	15		
		Something that pulls people to an area			
9	Pull Factor	Something that pulls people to an area (e.g. well-paid jobs)			
			16		

The world is becoming more urban

LO	Causes	 Natural increase Migration → rural to urban Pull factors → Employment, 				
11	Trends	Urban area populations in 2020: HIC's: 1 billion LIC's: 3.7 billion				
	Rio de Ja	neiro - Location and growth:				
12	Location	Continent : South America Oceans : Atlantic Ocean to east Countries : Brazil, Paraguay				
13	Growth	 International migrants National migration Natural increase 				
	Rio de Ja	neiro: Importance of the city				
L4	Local	TourismDiverse population				
L5	Regional	The former capitalMajor port				
16	Global	 Exporter of coffee and sugar 2012 Olympics and 2014 FIFA World Cup 				

Yea	ar 10 Geograp	hy: Urban Issues and Challenges						
		Key Vocabulary						
1	Economic opportunities			The wo	rld is becoming more urban			
2	Megacity		10	Causes				
3	Multiplier effect		11	Trends				
4	Sanitation		12	Rio de Ja Location	neiro - Location and growth:			
5	Squatter settlement							
6	Favela		13	Growth				
				Rio de Ja	neiro: Importance of the city			
7	Urbanisation		14	Local				
8	Push factor		15	Regional				
9	Pull Factor		16	Global				

	10 Geography unities from urban gro	: Urban Issues and Challenges	Challenges	Solutions		
Opport	unities from urban gro	105 hospitals	Squatter settlements	Favela Bairro Project		
		 1000 primary schools, 400 	Poor access to healthcare	Home visits with health kits		
17		secondary schools	Poor attendance in education	'School grants'		
		 95% have access to mains water supply 	Poor access to clean water	7 new water treatment plants		
		99% have access to the power grid	Unreliable electricity	60km of new power lines		
18	Economic	Employment at the port, industrial sites and manufacturing.	Air pollution	Toll roads and metro system		
Improvi	ng quality of life:		Water pollution from industry	12 new sewage works		
19	Problems in the favelas	 Houses built on steep hillsides High crime rates Poor sanitation 		1		
20	Favela Bairro Project	 Removal of hillside houses Pacifying Police Unit Weekly waste collections 				
21	Problems with the Favela Bairro Project	 Overpopulation Pacifying Police Unit is corrupt \$1billion budget is not enough 				

FUE

	10 Geography	v: Urban Issues and Challenges	Challenges	Solutions
			Squatter settlements	
			Poor access to healthcare	
17	Social		Poor attendance in education	
			Poor access to clean water	
			Unreliable electricity	
18	Economic		Air pollution	
Improvi	ng quality of life:		Water pollution from industry	
19	Problems in the favelas			1
20	Favela Bairro Project			
21	Problems with the Favela Bairro Project			

(3)

Year 10 Geography: Physical Landscapes in the UK - Coasts

Key Vocabulary						Management strategies:					
1	Erosion		15	Weathering	s ₿¥		26				
2	Attrition		16	Mass Movement	النقون		27	Hard engineering			
3	Abrasion		Erosi	onal land	forms		28				
4	Hydraulic Power		17	Headland			29	Soft engineering			
5	Solution						25				
6	Weathering		18	Bays			30				
7	Massmovement		19	Cave							
8	Swash		20	Arch		Н	lolder	ness:			
9	Backwash		21	Stack			31	Mappleton –			
10	Constructive		22	Stump			32				
11	Destructive		Depo	sitional la	andforms:			Advantages:			
12	Transportation		25	Beach							
13	Deposition		24	Spit				Disadvantages:			
14	Longshore drift		25	Sand Dune			33				

Management strategies:

Year 10 Geography: Resource Management

	Key Vocabulary			n the UK:	Water in the UK:			
1		Application of business skills to agriculture	11		Used to be seasonal/locally sourced → Now globally sourced all year		23	Changing demand
2	Carbon footprint	Measurement of the greenhouse gases we produce			 → More disposable income → Increased demand for greater choice 		24	Water
3	Energy mix	Range of energy sources used in a region	12	Changing demand	 Positive impacts: Jobs in LICs Higher tax income 			quality and pollution managem
4	Export	Send (goods or services) to another country for sale	13		 Negative impacts: Less land for locals High water use Exposure to chemicals 		25	ent
5	Food miles	The distance covered supplying food to consumers	14		Organic Produce		26	Matching supply
6	Import	Bring (goods or services) into a country from abroad for sale	15	Larger carbon footprint			27	and demand
7	Mal nourishment	Lack of proper nutrition caused by not eating enough of the nutrients and mineral	16 17	Agri-business	Push now for Buying local; Having an allotment Main aim is profit Impact on the environment Use of pesticides & fertilizers		28	Maintain supply
8	Organic produce	Food produced without using fertilisers and nutrients	Energy	/ in the UK:	Use of pesticides & fertilizers		29	
		nutrents	18	74.0	2015 → 31% from coal		Expl	oitation of
9	Resource	The control and monitoring of resources so that they do not	19	The changing energy mix	1970 → 91% was from coal and oil Investing in renewable energy (solar)		30	Nuclear sit → current
9	Management	become depleted or exhausted	20	Decreasing	Decreasing reserves of fossil fuels		31	Economic i Jobs; Set uj
10	Under nourishment	Having insufficient food for good health	21 22	Domestic supply of oil, coal and gas	EU regulations on emissions → decrease in fossil fuel use 12% less used in homes since 1970 60% less in industry		32	Environme Ecosystem disposal; I Radiation le

vater	in the UK:			
23	Changing demand	Increasing wealth Improved hygiene Increasing industrial and domestic use Increasing population		
24	Water quality and	 Water quality is managed by: Legislation Education campaigns Wastewater treatment Infrastructure 		
25	pollution managem ent	Key pollutants: Fertilisers and pesticides Heavy metals from industry Acid rain		
26	Matching supply	Highest population is in the South East = water deficit Highest rainfall is in the North West = water surplus		
27	and demand	80% of Southern England relies on groundwater 50% are affected by water quality		
28	Maintain	Kielder Water Scheme Moves water from Northumberland to the NE		
29	supply	Positive and negative impacts → loss of homes →reliable supply for industry		

of resources

30	Nuclear sites being decommissioned → current plants will close by 2023
31	Economic issues: Jobs; Set up costs; Research,;Reliability
32	Environmental costs: Ecosystems damaged; Waste disposal; Emissions and pollution; Radiation leaks

Year 10 Geogra	hy: Resource	Management
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Key Vocabulary		Food in the UK:		Wate	Water in the UK:			
1	Agribusiness		11			23	Changing demand	
2	Carbon footprint			Changing	<u>هــــــــــــــــــــــــــــــــــــ</u>	24	Water quality	
3	Energy mix		12	demand		25	and pollution managem ent	
4	Export		13		\$	26		
5	Food miles		14		<u>ې:</u> ۲		Matching supply and	
6	Import		15	Larger carbon footprint		27	demand	
7	Mal nourishment		16	Agri-business		28	Maintain supply	
8	Organic produce		Energy	y in the UK:		29		
			18	The		Ex	ploitation of	resources
	Resource		19	changing energy mix		3	0	
9	Management		20	Decreasing		3	1	
10	Under nourishment		21 22	Domestic supply of oil, coal and gas		3	52	

Year 10 Geography: Resource Management- Water

	Key vocabulary			
1	Aquifer	Rock which can contain water		
2	Desalinisation	Removal of salt from sea water		
3	Irrigation	Artificial watering of the land		
4	Over abstraction	When water is being used more quickly than it is being replaced		
5	Porous	Allows water to pass through it		
6	Waterborne diseases	Diseases caused by contaminated water		
7	Water conflict	Disputes between different regions about the use of water		
8	Water deficit	Where water demand is greater than supply		
9	Water insecurity	Not having enough clean water for the population		
11	Water security	Reliable availability and quality and quantity of water		
12	Water stress	Demand exceeds the available amount during a certain time		
13	Water surplus	Supply is greater than demand		

Factors Affecting Water Availability:

14	Climate	Tropical; temperate; mountains
15	Geology	Porous rocks = aquifer forms
16	Pollution	Industrial waste
17	Over abstraction	High demand exceeds replacement
18	infrastructure	Water lost from leaking pipes
19	Poverty	Prevents access to safe water

20		Chemicals & waste lead to disease e.g. cholera
21	Waterborne diseases and pollution	11% of world's population is water insecure
22		2.6 billion lack access to sanitation
23	Food production	Reliant on water 🕸
24	Industrial output	Limited water → no industry → failing economy

Managing Water Supply:

2

25	Grey water	Wastewater from homes is recycled and put to good use
26	Groundwater management	Regulation of water levels, pollution and groundwater
27	Water conservation	The preservation , control and prevention of pollution
28	Water transfer schemes	Systems of canals and pipes → transport water from one river basin to another
29	Diverting supply and increasing storage	Diverting supply: Expensive; Environmental impacts; Encourage wastage
30		5 0,000 large dams worldwide
31		Desalination: Expensive; Becoming more common; UAE, Kuwait and Saudi Arabia use it

China Water Transfer Scheme:

32	12 trillion gallons per year 1000 km 3 routes; Yangtze to Yellow River basin US\$62 billion	Cost
33	Reliable supply in the north for 500 million people	÷
34	Increased availability of water for drinking, industry and irrigation	÷
35	Displaced 350,000 people Loss of productive farmland in south	Θ
36	Water export may leave south dry	Θ

Sustainable Future:

37	Water conservation	Push taps, mend leaks, drip agriculture
38	Groundwater management	Decrease pumping Decrease use of fertiliser and pesticides
39	Recycling	Use reclaimed water 忍 treated sewage water
40	Grey water	Toilets & irrigation Expensive system

Hitosa; Ethiopia - 1990s Gravity pipes take water from Mount Bada 41 140km pipelines, 100 public water points Half funding from Water Aid \oplus 42 (\pm) Reliable supply for 65,000 people 43 \oplus 44 Cattle fattening business Θ 45 Pipeline needs replacing \rightarrow 30yr Θ Hygiene around taps neglected=disease 46 Θ Encouraged migration to the area 47

Hitosa Sustainable Water Scheme:

Year 10 Geography: Resource Management- Water

	Key	vocabulary
1	Aquifer	
2	Desalinisation	
3	Irrigation	
4	Over abstraction	
5	Porous	
6	Waterborne diseases	
7	Water conflict	
8	Water deficit	
9	Water insecurity	
11	Water security	
12	Water stress	
13	Water surplus	

Factors Affecting Water Availability:

14	Climate	
15	Geology	
16	Pollution	
17	Over abstraction	
18	infrastructure	
19	Poverty	

			(
20	Waterborne		
21	diseases and pollution		
22			
23	Food production	章章	
24	Industrial output		L

Managing Water Supply:

25	Grey water	
26	Groundwater management	
27	Water conservation	
28	Water transfer schemes	
29	Diverting supply and increasing storage	
30		
31		

China Water Transfer Scheme:

32	
33	(eq)
34	÷
35	Θ
36	Θ

Sustainable Future:

37	Water conservation	
38	Groundwater management	
39	Recycling	රිව
40	Grey water	

Hitosa Sustainable Water Scheme:

41	
42	(eq)
43	(\neq)
44	(+
45	Θ
46	Θ
47	Θ





Helping every person achieve things they never thought they could.



Торіс	Que	stion	Answer
	1	Which Dynasty ruled in this period?	Tudor
	2	Who were seen to be England's main rivals?	Spain, France (the papacy?)
	3	How had Henry VIII caused a rivalry with the Papacy?	Broken with the Catholic Church/Papacy to divorce first wife. Set up Protestant Church of England.
	4	Which of Elizabeth's siblings had reigned before her?	Edward. Mary.
Elizabeth and her Government	5	Why was Elizabeth seen by some as an 'unrightful heir?'	She was born to Henry's second wife Anne Boleyn whilst he was still married.
	6	Who was Elizabeth's Catholic cousin who some claimed had a stronger claim to the throne?	Mary Queen of Scots.
and her	7	Why did Elizabeth grow up as an independent, strong character?	Her mother was executed by her father. She was sent away from Court. Well educated.
oeth a	8	Why did Elizabeth grow up to be cautious and brave?	She was accused of treason by her brother and sister.
Elizak	9	Why does Elizabeth keep Mary Queen of Scots under house arrest when she arrives in England?	Because she is a potential catholic threat to Elizabeth's crown
	10	What was the royal court?	Made up of 500 nobles advisors and servants who revolve around the Queen. Wherever she went, the court followed. It was the centre of political power.
	11	Who were the most influential part of Elizabeth's court?	The Privy Council
	12	Name three members of Elizabeth's Privy Council	Francis Walsingham, William Cecil, Robert Dudley

Year	10 His	tory: Elizabethan England	
Торіс	Ques	tion	Answer Answer
	1 Which Dynasty ruled in this period?		
	2	Who were seen to be England's main rivals?	
	3	How had Henry VIII caused a rivalry with the Papacy?	
	4	Which of Elizabeth's siblings had reigned before her?	
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	10	What was the royal court?	
	11	Who were the most influential part of Elizabeth's court?	
	12	Name three members of Elizabeth's Privy Council	



Торіс	Ques	tion	Answer
	13	How did Elizabeth use patronage?	She would hand out jobs and titles to encourage loyalty
	14	What was a royal progress?	Elizabeth would tour the country, visiting loyal subjects and keeping an eye on others.
	15	What was Elizabeth's thinking behind divide and rule?	She would put rivals on the privy council to encourage them to compete & work harder. At least one would support her.
ment	16	Why was Elizabeth put under pressure to marry?	Produce an heir, stop Mary QoS becoming Queen, form a powerful alliance
Govern	17	Name 2 of Elizabeth's suitors	King Phillip of Spain, Robert Dudley, Francis, Duke of Anjou
Elizabeth and her Government	18	Why did Elizabeth refuse to marry?	Loss of authority to a man, giving birth was risky, past experiences of family and marriage had been bad, being single could be used to her advantage.
Elizabe	19	What did Elizabeth use parliament for?	Raising taxes, making laws.
	20	How did Elizabeth manage parliament?	She issued statements about authority, arrested MPs who went too far, dismissed parliament when she wished.
	21	What issues did Elizabeth and parliament conflict over	Religion, freedom of speech, marriage & succession, monopolies.
	22	How did the Earl of Essex initially upset Elizabeth?	They argued during a meeting, she hit him & he nearly drew his sword.

Year 10	History:	Elizabethan
England		



Торіс	Quest	tion	Answer
	13	How did Elizabeth use patronage?	
	14	What was a royal progress?	
	15	What was Elizabeth's thinking behind divide and rule?	
ment	16	Why was Elizabeth put under pressure to marry?	
Elizabeth and her Government	17	Name 2 of Elizabeth's suitors	
	18	Why did Elizabeth refuse to marry?	
	19	What did Elizabeth use parliament for?	
	20	How did Elizabeth manage parliament?	
	21	What issues did Elizabeth and parliament conflict over	
	22	How did the Earl of Essex initially upset Elizabeth?	

Year	119 Your Piece of			
Торіс	Ques	tion	Answer	ctistory
	23	How did Essex make things worse regarding Ireland?	He made peace without permission, returned hom entered Elizabeth's chambers & caught her undres	•
and ment	24	How did Essex rebel?	Took 4 privy councillors hostage, marched to London with 200 supporters	
Elizabeth and her Government	25	How was the Essex rebellion stopped?	Essex was labelled a traitor and most of his followers fled.	
ш	26	What were the consequences of the Essex rebellion?	Essex was executed, most of his supporters were fined, Elizabeth showed she wouldn't tolerate challenges to her authority.	
	27	Name two Elizabethan sailors	Walter Raleigh, Francis Drake, John Hawkins	
Times	28	What made exploration possible?	Better defences to explore hostile territory, better astrolabe, better ships that were faster	navigation e.g. the
Life in Elizabethan Times	29	What was the impact of Elizabethan voyages?	England became involved in the slave trade, Englar raiding Spanish ships & ports as well as trade in the power grew, England's colonies began to grow e.g.	e East, England's naval
e in Eliz	30	Who were the gentry?	A new social class, often wealthy landowners with Richer than peasants, but not born with titles.	important positions.
Γi	31	How did homes change in the Great rebuilding?	They showed off wealth & taste rather than defend expensive glass. They used symmetry and replace chamber. They would be built with the intention of visit.	d halls with a great

Торіс	Ques	tion	Answer	History
ment	23	How did Essex make things worse regarding Ireland?		
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Ë	31	How did homes change in the Great rebuilding?		

. Your Piece of

Year 10 History: Elizabethan England	Торіс	Ques	tion	Answer		
	Sa	32	Who were the Lord Chamberlain's men?	A theatre troupe or company who were funded by a patron.		
				33	Why would people fund a theatre troupe?	To impress the Queen, who loved theatre.
		34	Describe an Elizabethan theatre such as the Globe	The pit is where ordinary people stood in the open weather, the galleries had covered seats for the rich, the Lord's rooms were most expensive and sat behind the stage for all to see. Ticket price depended on where you were and an opportunity to show how rich you were		
	lan Tim	35	Why was theatre so popular?	It was affordable, new & exciting, carried political messages, entertaining.		
	Life in Elizabethan Times	36	Why did some oppose theatre?	Large gatherings could spread disease, Puritans saw it as sinful and a distraction from prayer, theatres were dangerous with drunkenness and crime.		
	Life in	37	Why was poverty an problem in Elizabethan England?	Henry VIII had closed monasteries responsible for helping the poor. Bad harvests led to increases in food prices. Population increases led to rent increases. A flu outbreak killed 200,000 people.		
		38	Who were the undeserving poor?	Untrustworthy beggars who weren't interested in working e.g. Counterfeit cranks, clapper dudgeons, Tom O' Bedlams.		
		39	How did people try to deal with poverty initially?	Stocks, whippings, holes burnt in ears, hangings.		
		40	What did the poor Law do?	Taxed the wealthy to pay for the care of the poor. Fit & healthy paupers given work. Those who refused whipped or sent to house of correction.		

Year 10 History: Elizabethan England	Торіс	Ques	tion	Answer
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		40	What did the poor Law do?	

Торіс	Ques	tion	Answer	
	41	Who were the Puritans?	Extreme protestants, unwilling to compromise their faith.	
	42	Who were the Jesuits?	Missionaries sent to England to help restore Catholicism.	
B	43	How did Elizabeth demonstrate her 'Middle way'?	The Act of supremacy, which made her Governor, rather than head of the church. The Act of uniformity, which created an English prayer book, allowed Catholics to worship in private, allowed candles and colourful robes, made attendance at Anglican churches compulsory.	
ind Abroa	44	What was the Northern rebellion?	Plan to kill Elizabeth & marry Duke of Norfolk to Mary QoS. Earls of Westmoreland & Northumberland took control of Durham Cathedral & had a catholic mass. Marched south with 4600 men, but fled. Northumberland executed.	
lome a	45	What was the Papal bull?	Message from the Pope excommunicating the Queen, encouraging rebellion.	
Trouble at Home and Abroad	46	Describe two catholic plots to kill Elizabeth and replace her with Mary QoS	Ridolfi plot (Marry Mary QoS to Norfolk, Catholics to invade). Throckmorton plot (Kill Elizabeth, replace with Mary QoS. French invade). Babington plot (Kill Elizabeth, replace with Mary QoS. Mary agrees)	
F	47	What was the impact of Mary QoS's execution?	Catholics lose their alternative monarch. Mary became a martyr. Outrage was caused in France and Spain.	
	48	What led to conflict with Spain?	Elizabeth turned Phillip down, Spain saw it as their duty to return Catholicism to England. Spain was keen to follow the Papal Bull. English sailors had raided Spanish ships & ports with license from Elizabeth.	
	49	How did the Spanish plan to invade England?	Sail 151 ships, 7000 sailors and 34,000 soldiers to the Netherlands & collect more men. Sail in a crescent formation. Invade England with support from English Catholics.	

Торіс	Ques	tion	Answer
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	42	Who were the Jesuits?	
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	48	What led to conflict with Spain?	
	49	How did the Spanish plan to invade England?	

Year 10 History: America- opportunity for all

Торіс	Question		Answer	
	1	What are the signs of an economic boom?	Successful businesses, rising wages, and low unemployment	
ш	2	How did WWI contribute to the economic boom?	Other countries damaged, increased demand for US goods, Money loaned to allies with interest	
Why was there an economic boom in the 1920s	3	How did Republican Policies contribute to the boom in the 1920s?	Laissez-Faire/Low taxes on business so they re-invest, low taxes on people so they spend. Tariffs on imports so people buy American goods.	
i economi the 1920s	4	What was hire purchase? How did it contribute to the boom?	Buy now, pay later. Meant more people could afford to buy consumer goods, which increased demand.	
here an	5	What is the cycle of prosperity?	A successful economy. More demand leading to increased production, higher employment, more disposable income, more spending.	
y was t	6	Why was mass production so important to the economy in the 1920s?	Helped to produce consumer goods quickly and cheaply so more people could buy them	
ЧМ	7	How did the stock market contribute to the USA's economic boom?	Normal people could buy shares in businesses and made money as their value increased.	
	8	What type of dance was danced to Jazz?	The Charleston	
iety nment	9	What year was the first 'talkie' film, called the 'Jazz Singer'?	1927	
1920s Society and Entertainment	10	Name one famous actress made a celebrity by the 'star system'	Clara Bow	
	11	Why were more people able to watch spectator sports such as baseball in the 1920s?	More disposable income, more car ownership	

Year 10	Year 10 History: America- opportunity for all						
Торіс	Ques	tion	Answer				
	1 What are the signs of an economic boom?						
nin	2	How did WWI contribute to the economic boom?					
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Year 10 History: Americaopportunity for all



Торіс	Ques	tion	Answer
Racial tension in 1920s	12	What were the Jim Crow Laws?	Laws which enforced segregation of whites and blacks in public places in the South
	Members of the KKK were white supremacists. What does this mean?		They believed that the white race was superior/better and wanted to stop African Americans from getting the rights they deserved.
l tensio	14	How many members of the KKK were there at its peak in 1925?	6 million
Racial	15	African Americans had the right to vote in the 1920s, but there were three things which discriminated against them from using it. What were they?	Intimidation Literacy (reading and writing test, which many AAs couldn't). Poll tax (had to pay money to vote, which many AAs couldn't afford).
	16	Russia became communist in 1917. Describe three aspects of what communism is	One party runs the whole country, business owned and run by the state (government), the lives of individuals tightly controlled
a	17	Why were so many Americans scared of communism?	The were worried it would ruin their way of life.
Red Scare	18	Describe America's capitalist society	Governments are elected in free and fair elections, businesses are owned by individuals who enjoy the profit, individual freedom in very important
	19	What were the Palmer Raids in 1919?	A series of raids led by the Mitchell Palmer to capture, arrest and 'send home' suspected communists from the United States. 6000 suspects were arrested

Year 10 History: Americaopportunity for all



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	19	What were the Palmer Raids in 1919?	

Year 10 History: America- opportunity for all

Торіс	Ques	tion	Answer	
Roosevelt's election	20	What did Franklyn D Roosevelt offer the American people?	A new deal	
	21	How did Roosevelt campaign for the presidency?	He toured the country, sometimes making 15 speeches a day	
Roosev	22	How had Roosevelt helped the depression before becoming president?	He spent \$20 million as Governor of New York to help unemployment.	
	23	What were the 'three Rs' of the New Deal?	Relief, recovery, reform.	
deal	24	How did the New Deal try to kickstart the American economy	Spending would lead to a cycle of recovery.	
New deal	25	How did the New Deal discriminate against women?	The average wage for a women in 1937 was \$525 compared to \$1000 for men	
	26	Why is the TVA an example of permanent change for the better?	Thousands of jobs were created, the land became fertile and quality of life greatly improved.	
erity	27	What did American Express create in 1958?	A worldwide credit card network that allowed people to purchase items and pay off instalments every month.	
1950s prosperity	28	How did America's fear of communism help the economy in the 1950s?	The government massively increased military spending	
1950s	29	How did the 4 million babies born each year during the 1950s help the economy?	Each infant was thought to be worth \$800 to the producers of baby and child products.	

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Vear 1	0 Histo	ry: America- opportunity for all	
Topic	Ques		Answer
ection	20	What did Franklyn D Roosevelt offer the American people?	
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Life Chances



Helping every person achieve things they never thought they could.



Year 10 Life Chances: CEIAG (careers)

Technology is one of the biggest **influences** on the changing opportunities in the world of work.

- Artificial intelligence (AI) is the development of machines that can mimic human behaviours such as learning, reasoning and selfcorrection.
- **Robots** can help humans do physical tasks. Not all robots are • physical robots. Robotic process automation (RPA) is software that can be configured to do specific tasks that humans do on computers.
- Automation are tasks done by machines instead of humans to increase efficiency and reduce mistakes.

800,000 jobs have been lost but nearly 3.5 million new ones have been created due to technology.

Technology has boosted employment in knowledge-intensive sectors such as medicine, accounting and professional services.

Career or Job?

What is a job?

Your job is the role you have at your place of work. Firefighter, airline pilot, teacher, politician – these are all jobs. In a nutshell, a job is about the here and now.

A job can be something you do just to earn money. But it can also be part of something much bigger. This is called a "career".

What is a career?

A career is about more than just earning a wage. It is to do with your long-term aims and ambitions, and what you want to achieve in your life. In a career, each job you have helps you achieve this goal. This is called your career path.

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Your Journey Through Education						
Institution	Age	Year Group	Qualification	Level	Status	
Primary School	4-11 years	Reception – Year 6	SATs (In year 6)	N/A	Compulsory	
Secondary School	11-16 years	Year 7 – Year 11	GCSEs (taken in year 11)	Level 2	Compulsory	
Further Education (College/Sixth Form)	16+	Year 12 – Year 13	A Levels / T Levels / BTECs / Apprenticeships	Level 3	Compulsory	
Higher Education (University/College)	18+	Undergraduate	Degree / Foundation degree / Degree apprenticeships	Level 4 - 6	Optional	

Year 10 Life Chances: CEIAG (careers)				Career or Job?		
Technology is one of the biggest influences on the changing opportunities in the world of work.				What is a job?		
Artificial intelligence	(AI) is					
• Robots can						
				What is a car	eer?	
Automation are	Automation are					
800,000	800,000 jobs have been lost but nearly due to technology.					
	Technology has boosted employment in knowledge-intensive sectors such as,, and					A.S
Your Jour	ney Throu	gh Education.	••			
Institution	Age	Year Group		Qualification	Level	Status
	4-11 years	Reception – Year 6			N/A	
	11-16 years	Year 7 – Year 11			Level 2	
	16+	Year 12 – Year 13			Level 3	
	18+	Undergraduate			Level 4 - 6	

Year 10 Life Chances: CEIAG (careers)

Understanding what university life is like

Level 4	 1st Year Honours Degree Certificate of Higher Education 	 BTEC Professional Qualifications Foundation Degree Year 1 HNCs 	 1st Year Degree Apprenticeship Higher Apprenticeship NVQ Level 4
Level 3	 A and AS Levels International Baccalaureate Open University Access Modules 	T LevelsVocational Level 3	 Advanced Apprenticeship NVQ Level 3
Level 2	 GCSE Grades 4-9 Maths /English/ Functional Skills Course 	 Transitional Year (to get ready for T Levels) Vocational Qualifications (BTEC etc.) 	 Intermediate Apprenticeship NVQ Level 2



How do students learn at university?

Lectures

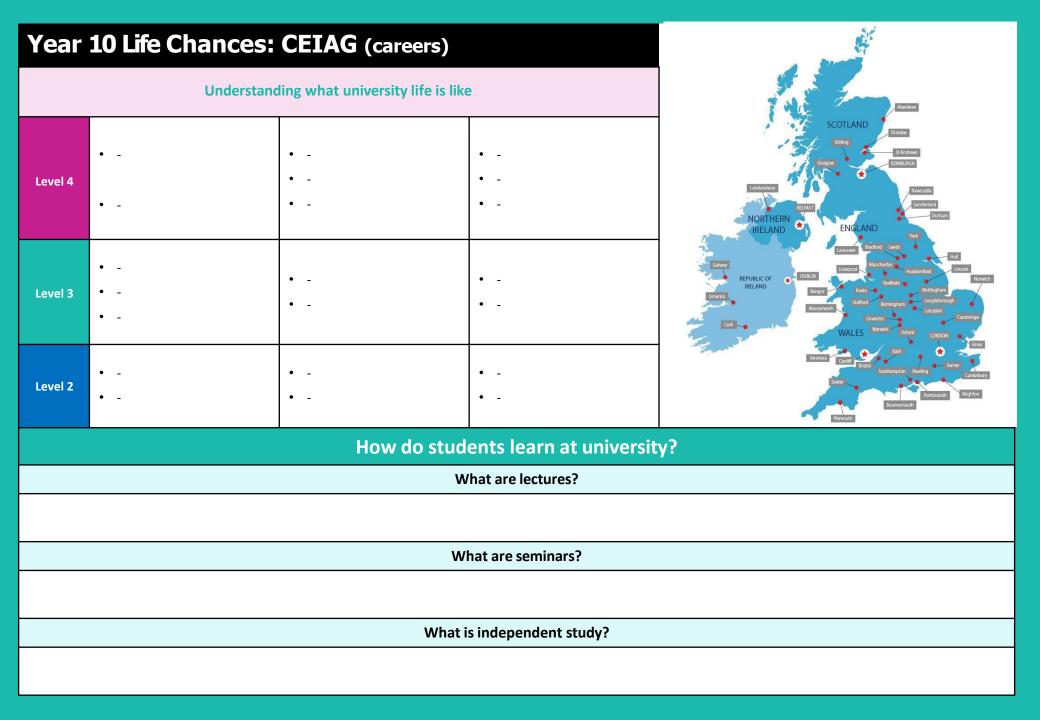
University students are taught in lectures. A lecture is a formal educational talk given by a subject specialist to a group of students who listen and take notes. Lectures can be attended by hundreds of students at once.

Seminars

A seminar is another form of teaching at university. Small groups give presentations and hold discussions, often based around the lectures they have attended. It is a more informal way of teaching and acts as an opportunity for students to share their ideas.

Independent Study

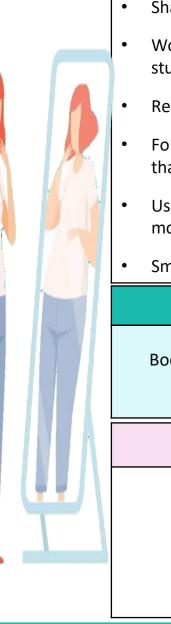
There are many different types of teaching methods used in universities, lectures and seminars are just the most common. You will also be expected to do a lot of independent study during your degree.



Year 10 Life Chances: Wellbeing

Useful Emotional Wellbeing Strategies

- Relaxation techniques, e.g. mindfulness and deep breathing
- Following interests and hobbies that provide an enjoyable distraction
- Getting plenty of good quality sleep
- Keeping active, e.g. running, swimming, walking, playing sport
- Spending time with friends and family
- Doing dedicated exercises intended to promote relaxation, e.g. yoga
- Getting outside into nature
- Online mindfulness, stress and anxiety apps
- Asking for support from teachers, family, friends, online support when things get a bit much.



Unhealthy Coping Strategies

- Sharing emotional and personal details on social media
- Working excessively on school work to cope with anxiety about studies
- Regularly over-exercising to the point of collapse
- Following a restrictive eating plan that involves eating less food than the body needs to maintain a healthy lifestyle
- Using energy drinks to boost energy levels and to enhance mood.
- Smoking to calm the nerves.

What is body image?

Body image is the way we think and feel about the size, shape, weight and overall appearance of our bodies.

The dangers from cosmetic surgery

Blood loss Depression Financial pressures

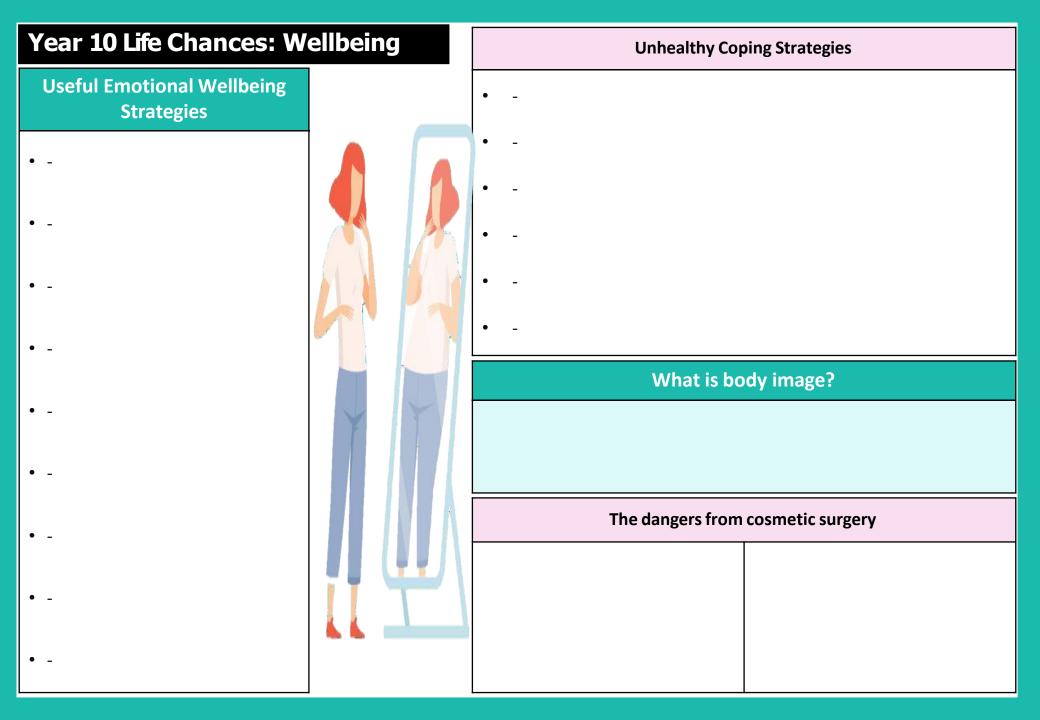
Body dysmorphia

Infection

Scarring

Nerve damage

Disappointment



Year 10 Life Chances: Wellbeing	Drug	Effect 1	Effect 2	
Understanding the laws surrounding drugs.	Depressants (E.G. Alcohol or	Initial feeling of pleasure or confidence before risk of losing consciousness at higher	Lowers cognitive abilities, slows reactions and risks	
Possession means that an individual is caught with a controlled drug for personal use. The person	solvents)	doses.	blackouts.	
does not have to be using it, just to have it in their possession.	Stimulants (E.g. MDMA or cocaine)	Increased energy, pleasure, dilated pupils and increased confidence.	People can experience a clenched jaw and/or racing heart which increases the risk	
Possession with intent to supply means that a person is planning to give controlled drugs to			of a heart attack.	
someone else. This includes selling, sharing or giving for free.	Hallucinogens (E.g. Magic mushrooms or LSD)	Altered perception or hallucinations.	Anxiety and panic, impaired decision making.	
Supply means that a person distributes or gives	mushrooms of LSD)			
someone else controlled drugs. This can be selling, giving for a reward of some form, sharing or giving for free.	Dissociatives (E.g. Ketamine or nitrous oxide)	Disconnected from body, floaty or feeling numb.	Unable to move or protect self. Unpleasant feeling of being detached from own body.	
	Opioids (E.g. Heroin)	Pleasure, a sense of wellbeing and pain-relief.	Sleepiness and loss of consciousness. Risk of injury whilst feeling less pain.	
	Steroids (E.g. Anabolic steroids)	Over repeated doses, increased muscle mass and quicker recovery from exercise.	Linked to paranoia and aggressive behaviours.	
	Cannabinoids (E.g. Cannabis)	Feeling 'chilled out' or giggly.	Linked to paranoia and mood swings, also increased loss of memory.	

Year 10 Life Chances: Wellbeing	Drug	Effect 1	Effect 2
Understanding the laws surrounding drugs. Possession means	Depressants (E.G. Alcohol or solvents)		
	Stimulants (E.g. MDMA or cocaine)		
Possession with intent to supply means	Hallucinogens (E.g. Magic mushrooms or LSD)		
Supply means	Dissociatives (E.g. Ketamine or nitrous oxide)		
	Opioids (E.g. Heroin)		
	Steroids (E.g. Anabolic steroids)		
	Cannabinoids (E.g. Cannabis)		

What is it like to take 'A' Levels (Advanced Levels)?

You will study fewer subjects than you did at GCSE but, as A-levels are advanced qualifications, your will need to develop a much deeper understanding and knowledge of these subjects.
Because you're picking fewer subjects, A-levels are a good opportunity to start specialising and thinking about potential future careers.

- •At A-level, you have a lot less input from teachers and are expected to do more independent study.
- •However, you normally go to more lessons, so you can have more time with your teachers to ask questions and work on projects.

•While A-levels are a great entry ticket to university, there are some subjects that certain unis won't accept, and some they will prefer – so do your research! **T-levels (Technical Levels)** are a new type of technical qualification, designed for after your GCSEs. They've been developed alongside employers to make sure that what you learn meets the needs of industry and prepares you for work. Here's some key information to give you an idea of what to expect:

- •T-levels are two-year courses
- •They are equivalent to three A-levels
- •Your time is split: 80% classroom learning; 20%

industry placement

•Placements are at least 315 hours (approximately 45 days)

•T-levels could help you get into skilled employment, further study or a higher apprenticeship.







Year 10 Life Chances: Post 16 Pathways

What is it like to take 'A' Levels (Advanced Levels)?

You will study fewer subjects than you did at _____ but, as A-levels are ______ qualifications, your will need to develop a much ______ understanding and knowledge of these subjects.
Because you're picking fewer subjects, ______ are a good opportunity to start specialising and thinking about potential future _____.

•At A-level, you have a lot less input from teachers and are expected to do more ______ study.

•However, you normally go to more lessons, so you can have more time with your ______ to ask questions and work on

•While A-levels are a great entry ticket to ______, there are some subjects that certain unis won't accept, and some they will prefer – so do your _____! **T-levels (Technical Levels)** are a new type of technical qualification, designed for after your GCSEs. They've been developed alongside employers to make sure that what you learn meets the needs of industry and prepares you for work. Here's some key information to give you an idea of what to expect:







Apprenticeships

Key points to remember-

- There are many different types and levels of apprenticeships, so do your research.
- Different levels of apprenticeships will have different entry requirements, so make sure you have the grades or qualifications you need.
- When you do an apprenticeship, you are normally required to work as well as study towards a qualification, so it can be quite full-on.
- You can do an apprenticeship in lots of different fields, from media to business, from construction to social care.
- A wide range of businesses offer apprenticeships, from hair salons to digital agencies.
- The web is a good place to start researching the right apprenticeship for you.

Key points to remember-

•Not all are advertised, so it's important to have a good network. Doing work experience and talking to people in local businesses are great ways of finding out about opportunities.

•Much like applying for a job, getting an apprenticeship can be quite competitive.

•As well as your qualifications and previous experience, so-called 'soft skills' are also very important to employers. Example of soft skills include: communication skills, being able to work in a team and independently, the ability to do project work. Basic English and Maths skills are important too.

•As well as giving you on-the-job experience and a wage, an apprenticeship will increase your awareness of the work environment and of the field you work in.

•But be aware that you are aligning yourself to a particular career, which could limit your options later.

•Take the decision to do an apprenticeship seriously: you'll be in a working environment and will be expected to work and behave to certain

APPRENTIC

SKILLS PERFORMANCE

standards.

Apprenticeships

Key points to remember-

- Different levels of apprenticeships will have different _____ requirements, so make sure you have the _____ or _____ you need.
- When you do an apprenticeship, you are normally required to ______as well as _____towards a qualification, so it can be quite full-on.
- You can do an apprenticeship in lots of different _____, from media to business, from construction to _____ care.
- A wide range of businesses offer apprenticeships, from hair salons to _____agencies.
- The web is a good place to start researching the _____ apprenticeship for you.

Key points to remember-

•Not all are advertised, so it's important to have a good ______. Doing ______ experience and talking to people in local businesses are great ways of finding out about ______.

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•As well as your qualifications and previous experience, so-called '_____ skills' are also very important to employers. Example of soft skills include communication _____, being able to work in a _____ and independently, the ability to do project work. Basic ______ and _____ skills are important too.

•As well as giving you on-the-job ______ and a____, an

apprenticeship will increase your awareness of the work environment and of the _____ you work in.

•But be aware that you are ______ yourself to a particular career, which could limit your options later.

•Take the ______ to do an apprenticeship seriously: you'll be in a working environment and will be expected to _____ and behave to certain

standards.





Year 10 Life Chances: Types of sexuality



Gender identity

Many people identify as male or female and see their sex and gender as the same thing. For others their gender identity is different from the sex registered on their birth certificate (male or female).



There are different types of sexuality. Here are some terms used:

Straight: attracted to people of the opposite sex. **Gay**: attracted to people of the same sex. This term is used by both men and women.

Lesbian: attracted to people of the same sex. This term refers specifically to women.

Bisexual: attracted to both men and women. Some people prefer the term pansexual to indicate that they are attracted to different kinds of people, regardless of gender.

Asexual: not sexually attracted to anyone.

- Some people may be registered as male at birth, but not identify as male.
- Some people may be registered as female at birth, but not identify as female.
- Some people's gender identity sits between male and female, whilst others don't feel male or female in any way.

There are a variety of terms that can be used to describe this, such as gender diverse or non-binary (neither male nor female). Views on gender identity are wide ranging and discussion of the topic can often become contentious.



Year 10 Life Chances: Types of sexuality



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Many people identify as male or female and see their sex and _____as the same thing. For others their gender ______is different from the sex registered on their birth ______(male or female).



There are different types of sexuality.	Here are
Straight:	
Gay:	
Lesbian:	
Bisexual:	
Asexual:	

- Some
- Some
- Some.....

There are a variety of terms that can be used to describe this, such as gender _____ or non-____ (neither male nor female). Views on gender identity are wide ______ and discussion of the _____ can often become contentious.







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Yea	ar 10 Math	IS:		Key Fa	ncts
Key	Vocabulary				Rounding to decimal places:Identify how many numbers after the decimal
1	Pythagoras's Theorem	• A relationship between the squares of the sides of a right angled triangle, written as the formula $a^2 + b^2 = h^2$	h a b	10	 point and use the next number to round up or down. E.g. 5.246 to 2 decimal places = 5.26
2	Right-Angled Triangle	• Any triangle where one of its interior angles is 90°	ide dAH	11	 Rounding to significant figures: Identify how many non zero digits are required then round up or down to make all the other numbers zero.
3	Hypotenuse	The longest side of a right- angled triangleOpposite the right angle	Shorter Side asnuatodAH		 E.g. 236.543 to 2 significant figures = 240
4	Shorter Sides	 The remaining sides of the right-angled triangle that are not the hypotenuse 	Shorter Side	12	 Pythagoras' Theorem to find the hypotenuse length: a² + b² = h²
5	Labelling	 Identifying the hypotenuse and the short sides a and b are the shorter sides h is always the hypotenuse 		13	To calculate the length of a short side: • $h^2 - b^2 = a^2$, or • $h^2 - a^2 = b^2$
6	Squared	• Multiplying a number by itself	4 squared = $4^2 = 4 \times 4 = 16$ 8 squared = $8^2 = 8 \times 8 = 64$	14	Pythagorean Triples are where a, b and h are all positive integers: • 3, 4, 5 where $3^2 + 4^2 = 5^2$ • 7, 24, 25 where $7^2 + 24^2 = 25^2$
7	Square Root	• The number that has been multiplied by itself to make a square number	Square root of 36 $\sqrt{7}$ $\sqrt{7}$ $= 36 = 6 \times 6 = 6$		Kev Formula
8	Rearranging Formula	 Changing the subject of a formula so that it equals a different part of a formula 	$a^2 + b^2 = h^2$ can be rearranged to $a^2 = h^2 - b^2$ OR $b^2 = h^2 - a^2$	Pythag Theor	$ u^- + b^ n^- $
9	Substitution	• Replacing a letter with a number in a formula	a = 3, b = 4 $32 + 42 = h2$		

Ye	Year 10 Maths:			acts
Кеу	Vocabulary			What do you know about rounding to decimal places?
1	What is Pythagoras's Theorem?		10	
2	Define a right-angled triangle		11	What is meant by rounding to significant figures?
3	Which side of a right angled triangle is the hypotenuse?			State the formula for calculating the long side of a
4	Which sides of a right angled triangle are short sides?		12	right angled triangle. State the formula for calculating a short side of a
5	How do you label a right angled triangle to be able to use Pythagoras' Theorem		13	right angled triangle that is labeled b.
6	What does it mean to square a number?		14	Describe where a line of symmetry would on an isosceles triangle.
7	What does square root mean?			Key Formula
8	Explain rearranging a formula.		Pythag Theo	goras'
9	What does substitution mean?			

Year 10 Maths: **Key Facts Key Vocabulary** A regular polygon has lines of 25 symmetry equal to Vertically Formed when two straight lines intersect . its number of sides 15 **Opposite Angles** The four angles add up to 360° Vertically opposite 26 16 Polygons A 2D shape with straight sides ٠ angles are equal An angle between one side of a polygon and the . Angles on straight 17 **Interior angle** adjacent side line about a point 27 add to 180° An angle between the extended side of a polygon • 18 **Exterior** angle and the adjacent side Angles around a 28 point add up to 360° 3 sided polygon . Equilateral triangle has 3 equal sides and 3 equal 19 Triangles angles (all 60°) Isosceles triangles has 2 equal sides and 2 equal Interior angle + . 29 Exterior angle = 180° angles 60° 604 sided polygon . For example: Square, Rectangle, Rhombus, 20 Quadrilateral Sum of Interior Parallelogram, Kite, Trapezium and Arrow Head 30 Angles in any triangle add up to 180° 21 Pentagon 5 sided polygon • Sum of Interior Angles in any 22 31 Hexagon 6 sided polygon . quadrilateral add up to 360° 23 Heptagon 7 sided polygon • Sum of Exterior Angles in any 32 24 Octagon 8 sided polygon polygon equals 360° .

Year 1	0 Maths:	Key Facts		
Key Vocat	bulary		A regular 6 sided polygon, has how many lines of symmetry?	
15	What do you know about vertically opposite angles?	25		
16	Name the polygons with the following numbers of sides 4 sided 9 sided	26	What can you say about vertically opposite angles?	
	10 sided	27	What do angles on a straight line about a point sum to?	
17	What is an interior angle?	21		
18	On a polygon where is its exterior angle?	28	What do angles around a point sum to?	
19	Define an equilateral triangle and an isosceles triangle.	29	An interior angle added to an exterior angle is straight line – why?	
20	Name as many quadrilaterals as you can.	30	What do the interior angles of a triangle sum to?	
21	Name the polygon with 5 sides.			
22	Name the polygon with 6 sides.	31	What do the interior angles of a quadrilateral sum to?	
23	Name the polygon with 7 sides.		What do the exterior angles of any	
24	Name the polygon with 8 sides.	32	polygon sum to?	

Yea	ar 10 Math	ns:	Key Facts			
Key	Vocabulary			42	Simplify $4x + 6x$	10 <i>x</i>
33	Algebraic Expressions	 An expression consists of variables, numbers and operations 	$4x + 5y$ $2a$ $y^2 - 5y$	43	Simplify $4x + 3y - 6x + 7y$ Collect like term	4x + 3y - 6x + 7y $= -2x + 10y$
34	Variable	A letter/symbol that stands for an unknown value	x y	44	Simplify 2 \times 3 <i>c</i>	6 <i>c</i>
		Terms make up algebraic expressions	<i>x</i>	45	What does w^4 mean?	$w \times w \times w \times w$
35	Term	 A term can be a number, variable or combination of both 	5 <i>y</i> <i>ab</i> 8	46	Substitute $a =$ 4 into $3a + 7$	Swap a for 4 3 × 4 + 7 = 12 + 7 = 19
36	Indices	 How many times something has been multiplied by itself Also called a power 	y to the power of 5 means: $y^5 = y \times y \times y \times y \times y$	47	Expand $y(y+2)$	$y \times y = y^{2} \text{ and } 2 \times y$ $= 2y$ $y + 2 = y^{2} + 2y$
37	Substitute	 Swapping the variable for a number 	Evaluate $2a + 5b$ when: a = 4, b = 3 $2 \times 4 + 5 \times 3 = 8 + 15 = 23$	48	Expand and simplify $3 \ 2x - 5 + 4(x + 1)$	$ \begin{array}{r} 6x - 15 + 4x + 4 \\ = 10x - 11 \end{array} $
38	Simplifying	 Adding, subtracting, multiplying and dividing terms 	$2 \times 4a = 8a$ $4b + 3b = 7b$	49	Factorise $12y + 20$	HCF of 12 and 20 = 4 12y + 20 = 4(3y + 5)
39	Like Terms	Like terms share the same letters and powers	x and $2x^2$ are not like terms 4a and 5b are not like terms 4y and $4y^2$ are not like terms	50	Expand and simplify $(x+7)(x-3)$	$\begin{array}{ c c c c c } \hline \times & x & +7 \\ \hline x & x^2 & +7x \\ \hline -3 & -3x & -12 \\ \hline \end{array}$
40	Expand	Multiplying out the brackets	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			$ x^{2} + 7x - 3x - 12 \\ x^{2} + 4x - 12 $
41	Factorise	 Putting an expression back into brackets The inverse of expanding 	10x + 15y = 5(2x + 3y)	51	Factorise $x^2 + 7x + 6$	a = 1, b = 7, c = 6 ac = 6 Factors of 6: 1, 2, 3, 6 1 + 6 = 7

Yea	Year 10 Maths:			Key Facts		
Key	Vocabulary		42	Explain how you would simplify $2x + 4x$		
33	What is an algebraic expression ?		43	How would you collect like terms to simplify 2x + 8y + 3x - 2y		
34	What is a variable in algebra?		44	Simplify 3 \times 2 <i>c</i>		
			45	How else could you write $w \times w \times w \times w$?		
35	Give an example of a term in algebra.		46	Explain what substitution means in algebra.		
36	What is an index (indices plural)?		47	Explain how you would expand the bracket $x(x - 4)$.		
37	How do you substitute into expressions?		48	Explain how you would expand and simplify $3 \ 2x - 4 \ + 4(3x + 2)$.		
38	What does simplify		49	What does factorise fully mean in algebra?		
<u> </u>	mean in algebra?			Explain how you would expand and simplify $(x + 5)(x - 4)$.		
39	What are like terms ?		50			
40	Give an example of how to expand a single bracket.					
41	What does factorise mean?		51	What is the method for factorising quadratic expressions such as $x^2 + 7x + 12$		

Ye	Year 10 Maths: Pythagoras' Theorem and Trigonometry							
		Key Skill	Thinking Point	WAGOLL				
	1	Pythagoras' Theorem (finding the length of the hypotenuse)	Pythagoras' Theorem to find the hypotenuse length: $a^2 + b^2 = h^2$	$a^{2} + b^{2} = h^{2}$ $7^{2} + 10^{2} = h^{2}$ $49 + 100 = h^{2}$ $149 = h^{2}$ $\sqrt{149} = h$ $h = 12.2 cm (1 d. p)$ x				
	2	Pythagoras' Theorem (finding the length of a shorter side)	To calculate the length of a short side: • $h^2 - b^2 = a^2$, or • $h^2 - a^2 = b^2$	$ \begin{array}{c} h^2 - b^2 = a^2 \\ 15^2 - 12^2 = b^2 \\ 225 - 144 = b^2 \\ 81 = b^2 \\ \sqrt{81} = b \\ b = 9cm \end{array} $				
	8	Trigonometry (working out a missing length or angle)	$sin heta = rac{opposite}{hypotenuse} \ cos heta = rac{adjacent}{hypotenuse} \ tan heta = rac{opposite}{adjacent}$	$\int_{a} \int_{a} \int_{b} \int_{a} \int_{a} \int_{b} \int_{b} \int_{c} \int_{a} \int_{c} \int_{c$				
	Key vocabulary							
	 Hypotenuse The longest side of a right-angled triangle Opposite the right angle 							

Ye	/ear 10 Maths: Pythagoras' Theorem and Trigonometry							
		Key Skill	Thinking Point	Practice				
	1	Pythagoras' Theorem (finding the length of the hypotenuse)	How do you work out the length of the hypotenuse?	10m 7m	6m	_		
	2	Pythagoras' Theorem (finding the length of a shorter side)	How do you work out the length of one of the short sides?	15 cm	8 cm]4 cm		
	3	Trigonometry (working out a missing length or angle)	What are the three trigonometric ratios you know for right angled triangles?	7cm 36°	R 53° 14cm 5	3cm x 8cm		
	Key vocabulary: Define hypotenuse, then label it on the triangle							

Year 10 Maths: Solving Equations

	Key Skill	Thinking Point	WAGOLL					
1	Solving Linear Equations	You can use function machines or the balancing method.	Solve $\frac{x}{4} - 7 = 5$ $x \implies \div 4 \implies -7 \implies 5$ $48 \bigstar x 4 \bigstar +7 \bigstar 5$	Solve $5x + 4 = 39$ - 4 $5x + 4 = 39$ 5x = 35 5x = 35 x = 7 $5x = 5$	Solve $\frac{3x-8}{4} = 4$ x = 4 x = 4 3x = 16 3x = 24 x = 4 x = 16 x = 24 x = 16 x = 16			
2	Equations with x (or any variable) on both sides	Rearrange the equation so you have all the variables on one side and all the constants on the other.	x = 48 Solve $3x + 12 = 2x + 19$ $x + 12 = 19$ $x = 7$	Solve $x + 14 = 2x + 6$ 14 = x + 6 8 = x x = 8	$\begin{array}{c} \div 3 & x = 8 & 2 & \div 3 \\ Solve 2x + 15 = 5x + 3 \\ 15 = 3x + 3 \\ 12 = 3x \\ 4 = x \\ x = 4 \end{array}$			
	Polouvic higher only							

Below is higher only

3	Solving Quadratic Equations (using the		$4x^2 - 5x - 2 = 0$	
	Quadratic Formula)		a = 4 $b = -5$ $c = -2$	
		$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	$x = \frac{-(-5) \pm \sqrt{(-5)^2 - 4(4)(-2)}}{8}$	
			$x = \frac{5 + \sqrt{57}}{8} \text{or} \frac{5 - \sqrt{57}}{8}$	
			1.568729304 or -0.3187293044	
			1.569 or -0.319 to 3 d.p.	

Year 10 Maths: Solving Equations

	Key Skill	Thinking Point	Practice		
1	Solving Linear Equations	Which two methods can you use to solve linear equations?	Solve $\frac{x}{3} - 7 = 2$	<i>Solve</i> 8 <i>x</i> + 1 = 65	Solve $\frac{7x-8}{4} = 5$
2	Equations with x (or any variable) on both sides	What do you need to do to an equation that has a variable on both sides?	<i>Solve</i> $2x + 13 = 5x + 4$	<i>Solve</i> $x - 8 = 2x - 15$	<i>Solve</i> $3x + 6 = -x + 46$

Below is higher only

3	Solving Quadratic Equations (using the Quadratic Formula)	What is the quadratic formula?	Solve: $6x^2 - 7x - 3 = 0$

Year 10 Maths Higher: Sine and Cosine Rule

	Key Skill	Thinking Point	WAGOLL
1	Sine Rule	Use this to work out a missing angle or side in a triangle when you have information about an angle and the side opposite it, and another angle and the side opposite it. $\boxed{\frac{a}{Sin A} = \frac{b}{Sin B} = \frac{c}{Sin C}}$	$p \operatorname{cm} \mathbf{q}$ $\frac{p \operatorname{cm} \mathbf{q}}{73^{\circ}}$ $\frac{a}{\sin(A)} = \frac{b}{\sin(B)}$ $\frac{p}{\sin(75^{\circ})} = \frac{17}{\sin(73^{\circ})}$ $p = \frac{17}{\sin(73^{\circ})} \times \sin(75^{\circ}) p = 17.2 \operatorname{cm}$
2	Cosine Rule	Can be used to: • Find missing length (if SAS) • Find missing angle (if SSS) $a^2 = b^2 + c^2 - 2bcCosA$	A $a^2 = b^2 + c^2 - 2bc \cos A$ Substitute $x^2 = 12^2 + 11^2 - (2 \times 12 \times 11 \times \cos 22)$ y $x^2 = 20.22346 \dots$ $x = \sqrt{20.22346} \dots$ x = 4.5cm
3	Using Sine to find area	$Area = \frac{1}{2}ab Sin C$	A rea = $\frac{1}{2}ab Sin C$ $B = \frac{1}{2} \times 14 \times 8 \times Sin (38)$ $B = \frac{1}{2} \times 14 \times 8 \times Sin (38)$ $B = \frac{1}{2} \times 14 \times 8 \times Sin (38)$ $C = 34.5 \text{ cm}^2$

Year 10 Maths Higher: Sine and Cosine Rule

	Key Skill	Thinking Point	Practice
1	Sine Rule	What is the sine rule?	Work out the length of k 9 cm 51° 61°
2	Cosine Rule	What is the cosine rule?	Work out the length of x A B cm C 17 cm a x x x x x x x x
3	Using Sine to find area	What is the rule for the area of any triangle?	Work out the area a b c a b c c b c c d

Year <u>10</u>	ear 10 Maths Higher: Algebraic Fractions				
	Key Skill	Thinking Point	WAGOLL		
1	Simplifying	 Divide the numerator and denominator by the highest common factor You may need to factorise into brackets 	Simplify: $\frac{15xy^2}{5x} \qquad \qquad \text{coefficients} \\ 15 \div 5 = 3 \\ = \frac{3xy^2}{x} \qquad \qquad \text{variable} \\ = \frac{3y^2}{1} \qquad \qquad \text{variable} \\ = 3y^2$	Simplify $\frac{x^2 + 5x + 6}{2x + 4}$ = $\frac{-(x + 2)(x + 3)}{2(x + 2)}$ = $\frac{x + 3}{2}$	
2	Adding and Subtracting	Make sure both fractions have the same denominator	$ \begin{array}{rcl} x & \frac{8}{8} \\ x & \frac{8}{8} \\ x & \frac{8}{8} \\ x & \frac{5}{5} + \frac{3x}{8} \\ x & \frac{5}{5} \\ x & \frac{5}{$	$ \begin{array}{rcl} x + 2 \\ 3 + \frac{x + 3}{2} \\ x - \frac{2}{2} \\ \end{array} $ Common denominator $ \begin{array}{r} x - \frac{3}{3} \\ = & \frac{2(x + 2)}{6} + \frac{3(x + 3)}{6} \\ = & \frac{2(x + 2) + 3(x + 3)}{6} \\ = & \frac{2(x + 2) + 3(x + 3)}{6} \\ = & \frac{2x + 4 + 3x + 9}{6} \\ \end{array} $	
3	Multiplying and Dividing	 To multiply, multiply both numerators and multiply both denominators. To divide, use the reciprocal method. 	$\frac{6x}{2y} \times \frac{4y}{5} = \frac{6x \times 4y}{2y \times 5}$ $= \frac{24xy}{10y} \div 2$ $= \frac{12x}{5}$	$\frac{x-2}{x+3} \times \frac{x+1}{x-2} = \frac{(x-2) \times (x+1)}{(x+3) \times (x-2)}$ $= \frac{(x-2)(x+1)}{(x+3)(x-2)}$ $= \frac{x+1}{x+3}$	

Year 10 Maths High	er: Algebraic Fractions
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		Thinking Doint	Practice	
	Key Skill	Thinking Point	Practice	
1	Simplifying	What do you divide the numerator and denominator by to simplify a fraction?	Simplify: $\frac{30xy}{5xy}$	Simplify: $\frac{x^2 + 7x + 6}{3x + 18}$
2	Adding and Subtracting	What do you need to ensure before you can add or subtract fractions?	$\frac{7x}{3} + \frac{4x}{5}$	$\frac{x+9}{4} + \frac{x+1}{2}$
3	Multiplying and Dividing	How do you multiply fractions? How do you divide fractions?	$\frac{xy}{3} \times \frac{x}{y}$	$\frac{x+3}{x-2} \ge \frac{x-1}{x+1}$

Year 10 Maths: Standard fo	Year 10 Maths: Standard form				
Key Vocabulary	Definition				
Standard From	 Writing large and small numbers easily It is in the form A × 10ⁿ where 1 ≤ A < 10 and n is an integer (a whole number) 				
Key Skill	Thinking Point	WAGOLL			
Converting from standard form to an ordinary number positive powers	When a positive power multiply by 10 that many times	Write 2. 4 \times 10 ³ as an ordinary number 2.4 \times 10 ³ Means multiply by 10 three times 2.4 \times 10 \times 10 \times 10 \times 2400			
Converting from standard form to an ordinary number negative powers	• When a negative power divide by 10 that many times	Write 2. $4 \div 10^3$ as an ordinary number 2.4 × 10 ⁻³ Means divide by 10 three times 2.4 ÷ 10 ÷ 10 ÷ 10 = 0.0024			
Converting from an ordinary number to standard form: large numbers	 When a large number, divide by 10 until the number is less than 10 but larger than 1. The number of divisions is the power of 10. 	Write 67300 in standard form $67300 \div 10 \div 10 \div 10 = 6.73$ We have divided by 10 four times so the power will be 4. $= 6.73 \times 10^4$			
Converting from an ordinary number to standard form: small numbers	 When a small number, multiply by 10 until the number is less than 10 but larger than 1. The number of multiplications is the negative power of 10. 	Write 0. 0673 in standard form $0.0673 \times 10 \times 10 = 6.73$ We have multiplied by 10 twice so the power will be - 2. $= 6.73 \times 10^{-2}$			

Year 10 Maths: Standard form				
Key Vocabulary	Definition			
Standard From	 Why do we write numbers in standard form? What do numbers in standard form look like? 			
Key Skill	Thinking Point	Practice		
Converting from standard form to an ordinary number positive powers	When a positive power by 10 that many times	Write 3. $2~ imes~10^4~$ as an ordinary number		
Converting from standard form to an ordinary number negative powers	When a negative power by 10 that many times	Write 3. $2 \div 10^4$ as an ordinary number		
Converting from an ordinary number to standard form: large numbers	 When a large number, by until the number is less than but larger than The number of is the power of 10. 	Write 73600 in standard form		
Converting from an ordinary number to standard form: small numbers	 When a small number, by until the number is less than but larger than The number of is the negative power of 10. 	Write 0.0703 in standard form		

Year 10 Maths: Standar	d form				
Key Skill	Thinking Point	WAGOLL			
Multiplying Standard form	 Multiply ordinary numbers together Add powers together Check answer is written in standard form 	$\begin{array}{c} \mbox{Calculate} \left({\bf 4} \times {\bf 10^2} \right) \times \left({\bf 3} \times {\bf 10^5} \right) \\ \left({4 \times 3} \right) \times \left({10^2 \times 10^5} \right) \\ 12 \times {10^{2 + 5}} \\ 12 \times {10^7} \\ \mbox{Not in standard form as 12 is larger than 10.} \\ 1.2 \times {10^6} \end{array}$			
Dividing Standard Form	 Divide ordinary numbers together Subtract second power from first power Check answer is written in standard for 	$\begin{array}{l} \mbox{Calculate} \left({4 \times 10^2 } \right) \div \left({8 \times 10^5 } \right) \\ \left({4 \div 8} \right) \times \left({10^2 \div 10^5 } \right) \\ 0.5 \times 10^{2 - 5} \\ 0.5 \times 10^{-3} \end{array}$ Not in standard form as 0.5 is smaller than 1. 5 $ \times 10^{-4} \end{array}$			
	Below is Higher Tier ONLY				
Adding and Subtracting Standard Form	 Both numbers need to be written to the same power of 10. Either can be chosen but choosing the larger of the two will mean it is less likely you will need to rewrite in standard form. Once both written as the same of 10 add/subtract the numbers. 	$\begin{array}{c c} \mbox{Calculate} & \mbox{3} \times \mbox{10^5} + \mbox{4} \times \mbox{10^7} \\ & \mbox{0.03} \times \mbox{10^7} + \mbox{4} \times \mbox{10^7} \\ & \mbox{4.03} \times \mbox{10^7} \\ \mbox{Calculate} & \mbox{5} \times \mbox{10^5} - \mbox{2} \times \mbox{10^2} \\ & \mbox{5} \times \mbox{10^5} - \mbox{0.002} \times \mbox{10^5} \\ & \mbox{4.998} \times \mbox{10^5} \\ \end{array}$			

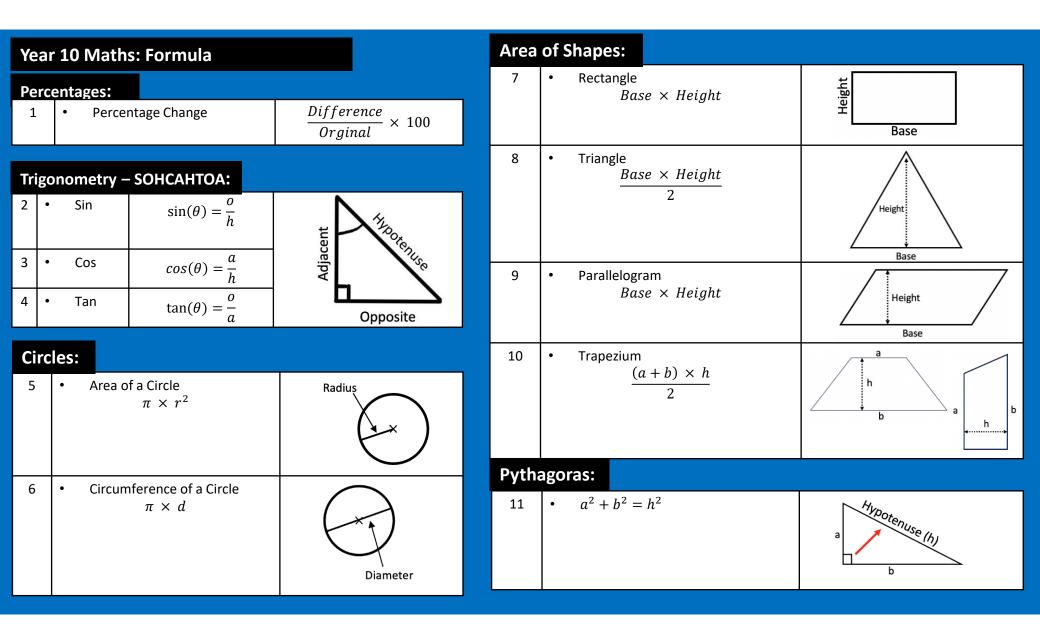
Year 10 Maths: Standa	rd form	
Key Skill	Thinking Point	WAGOLL
Multiplying Standard form	 What do we do with the powers when multiplying in standard form? At the end we must check the number is written in 	Calculate $(5 \times 10^2) \times (7 \times 10^6)$
Dividing Standard Form	 What do we do with the powers when dividing in standard form? At the end we must check the number is written in 	Calculate $(2 \times 10^3) \div (4 \times 10^8)$
	Below is Higher Tier ONLY	
Adding and Subtracting Standard Form	What is the first step?	Calculate $5 \times 10^5 + 2 \times 10^3$
	Why do we use the larger power of 10?	Calculate $7 \times 10^8 - 3 \times 10^5$

Year 10 Maths: Percent	tages	
Key Skill	Thinking Point	WAGOLL
Percentage of an Amount	 50% is the same as ¹/₂, so I can find 50% by dividing by 2 10% is the same as ¹/₁₀, so I can find 10% by dividing by 10 5% is half of 10%, so I can find 5% by halving my 10%. 	Find 65% of 64 50% of 64 = $64 \div 2 = 32$ 10% of 64 = $64 \div 10 = 6.4$ 5% of 64 = $6.4 \div 2 = 3.2$ 65% = $50\% + 10\% + 5\%$ 65% = $32 + 6.4 + 3.2 = 41.6$
Increase/Decrease by a percentage	 Increase, growth, extend, rise, inflate are some often used key words meaning to get bigger. Decrease, devalue, reduce, decline, discount are some often used key words meaning to get smaller 	Sam earns £25000 a year. He received a bonus of 20% last year. Calculate his total income for last year. 10% = £25000 ÷ 10 = £2500 20% = 10% + 10% 20% = £2500 + £2500 = £5000 Total income = £25000 + £5000 = £30000
Single Multipliers	 We can increase or decrease an amount using a calculator, using single multipliers. 	Find the single multiplier to increase by 20% 100% + 20% = 120% $120\% \div 100 = 1.2$ Find the single multiplier to decrease by 20% 100% - 20% = 80% $80\% \div 100 = 0.8$

Year 10 Maths: Percentages						
Key Skill	Thinking Point	WAGOLL				
Percentage of an Amount	 To find 50% what do you divide by? To find 10% what do you divide by? What do you do to find 5%? 	Find 45% of 64 Find 85% of 86				
Increase/Decrease by a percentage	What are the other words that could be used for increase?	a) Increase \$220 by 40% b) Reduce £45 by 20%				
	• What are the other words that could be used for decrease?					
Single Multipliers	When do we use single multipliers?	Find the single multiplier to increase by 30% Find the single multiplier to decrease by 15%				

Year 10 Maths: Percentages							
Key Skill	Thinking Point	WAGOLL					
Using Single Multipliers	 We can increase or decrease an amount using a calculator, using single multipliers. 	Use single multipliers to increase 324 by 20% 100% + 20% = 120% $120\% \div 100 = 1.2$ $324 \times 1.2 = 388.8$ Use single multiplier to decrease 546 by 20% 100% - 20% = 80% $80\% \div 100 = 0.8$ $546 \times 0.8 = 436.8$					
Compound Interest	 Compound interest takes into account the new amount including the interest each year. We use single multipliers to do this in the quickest and most efficient way. The formula is: original amount × single multiplier^{number of years} 	James invests £300 into an account with 2% per annum for 5 years. Single Multiplier 100% + 2% = 102% 102% ÷ 100 = 1.02 300 × 1.02 ⁵ = 331.22424 = £331.22					
Compound Depreciation	 Depreciation means decrease or reduce We use single multipliers to do this in the quickest and most efficient way. The formula is: original amount × single multiplier^{number of years} 	A car is bought for £20, 000. The value of the car depreciates by 3% each year. What is the value of the car 5 years later? Single Multiplier 100% - 3% = 97% $97\% \div 100 = 0.97$ $20000 \times 0.97^5 = 17174.6805 = £17174.68$					

Year 10 Maths: Percentages						
Key Skill	Thinking Point	WAGOLL				
Using Single Multipliers	When do we use single multipliers?	Use single multipliers to increase 540 by 30%				
		Use single multiplier to decrease 540 by 30%				
Compound Interest	What is the formula for compound interest?	James invests £400 into an account with 3% per annum for 7 years.				
Compound Depreciation	What does depreciation mean?	A car is bought for £30, 000. The value of the car depreciates by 4% each year. What is the value of the car 8 years later?				



Year 10 Maths: Formula		Area	Area of Shapes:		
Dercentages		7	What is the formula for the area of a rectangle?		
Percentages: 1 • What is the formula for percentage change?					
Trig	onometry – SOHCAHTOA:	8	What is the formula for the area of a triangle		
2	What is the formula for sin?				
3 •	What is the formula for cos?	9	What is the formula for the area of a parallelogram		
4 •	What is the formula for tan?				
Circ	les:				
5	What is the formula for the area of a circle?	10	What is the formula for the area of a trapezium		
	Pythagoras:				
6	• What is the formula for the circumference of a circle?	11	What is Pythagoras' Theorem?		

Year 10 Maths: Higher Formula These formulae will only be assessed on the Higher tier Mathematics GCSE.				
Quadratic Formula: Using the Formulae				
1 To solve quadratic equations of the form $ax^2 + bx + c =$ 0 where $a \neq 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	7	Use the quadratic formula to solve: $3x^2 + 7x - 5 = 0$ a = 3, b = 7, c = -5	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{-(7) \pm \sqrt{(7)^2 - (4) \times (3) \times (-5)}}{(2) \times (3)}$	
Sine Rule:		Use the sine rule	x = 0.573 or x = -2.907 a c	
2 • To calculate missing sides $\frac{a}{sinA} = \frac{b}{sinB} = \frac{c}{sinC}$	8	to calculate the length BC.	$\frac{\frac{1}{\sin(40)} = \frac{13.2}{\sin(114)}}{\frac{13.2}{\sin(114)}}$ $a = \frac{13.2}{\sin(114)} \times \sin(40) = 9.3m$	
3 • To calculate missing angles $\frac{sinA}{a} = \frac{sinB}{b} = \frac{sinC}{c}$	9	Used the sine rule to	$\frac{\sin A}{a} = \frac{\sin B}{b} \frac{\sin(60)}{17} = \frac{\sin B}{19}$	
Cosine Rule:		17 m	$sinB = \frac{\sin(60)}{17} \times 19$	
4 • To calculate missing sides $a^2 = b^2 + c^2 - 2bc \cos A$		A 600 19 cm C	$B = \sin^{-1}\left(\frac{\sin(60)}{17} \times 19\right) = 75.4^{\circ}$	
5 • To calculate missing angles $cosA = \frac{b^2 + c^2 - a^2}{2bc}$	10	Use the cosine rule to calculate the length CB.	$a^{2} = b^{2} + c^{2} - 2bc \cos A$ $a^{2} = 8^{2} + 15^{2} - 2 \times 8 \times 15 \times \cos(70)$ $a^{2} = 206.915 \dots$	
Area of any			$a = \sqrt{Ans} = 14.4cm$	
Triangle:ate the ear $Area = \frac{1}{2}absinC$ of any triangleThe sine rule, cosine rule and area of any triangle formula can be used C	11	Use the cosine	$cosA = \frac{b^2 + c^2 - a^2}{2bc}$ $cosA = \frac{10^2 + 8^2 - 14^2}{2 \times 10 \times 8}$ $cosA = -0.2$ $A = \cos^{-1}(-0.2) = 101.5^{\circ}$	
in any triangle ABC where a, b and c are lengths of sides: $A \xrightarrow{b} a$	12	Calculate the area of this triangle. $B = \frac{15 \text{ cm}}{15 \text{ cm}} c$	$Area = \frac{1}{2}absinC$ $Area = \frac{1}{2} \times 15 \times 8 \times \sin(70)$ $Area = 56.4cm^{2}$	

Year	Year 10 Maths: Higher Formula These formulae will only be assessed on the Higher tier Mathematics GCSE.			
Quadratic Formula:		Usin	Using the Formulae	
1	What is the quadratic formula?	7	How would you use the quadratic formula to solve: $3x^2 + 7x - 5 = 0$	
Sine	Rule:	8	How would you use the sine rule to calculate a length?	
2	What is the sine rule to calculate missing sides?	0	now would you use the sine rule to calculate a length:	
3	What is the sine rule to calculate missing angles?			
Cosi	ine Rule:	9	How would you use the sine rule to calculate an angle?	
4	What is the cosine rule to calculate missing sides?			
5	What is the cosine rule to calculate missing angles?	10	How would you use the cosine rule to calculate a length?	
	a of any ngle: at ben be used to calculate the area of any			
	thangle?	11	How would you use the cosine rule to calculate an angle?	
of ar	sine rule, cosine rule and area by triangle formula can be used triangle ABC where a b and c	12	How would you use the erec size rule to calculate the erec of a new vicitit	
in any triangle ABC where a, b and c are lengths of sides: $A \xrightarrow{c} B$		12	How would you use the area sine rule to calculate the area of a non-right angled triangle?	

Modern Foreign Languages

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Year 10 Fren	ch: Recap				
To have (Verb)		To live (Verb)		To be (Verb)	
Avoir	To have	Habiter	To live	Être	To be
J'ai	I have	J'habite	l live	Je suis	l am
Tu as	You have	Tu habites	You live	Tu es	You are
ll a	He has	Il habite	He lives	ll est	He is
Elle a	She has	Elle habite	She lives	Elle est	She is
On a	One has (We have)	On habite	One lives (We live)	On est	One is (We are)
Nous avons	We have	Nous habitons	Nous habitons We live		We are
Vous avez	You have (formal/plural)			Vous êtes	You are (formal/plural)
lls ont	They have (Masculine/mixed)			lls sont	They are (Masculine/mixed)
Elles ont	They have (feminine)			Elles sont	They are (feminine)

Year 10 French: Recap		
To have (Verb) Complete below:	To live (Verb) Complete below:	To be (Verb) Complete below:
To have	To live	To be
I have	I live	I am
You have	You live	You are
He has	He lives	He is
She has	She lives	She is
One has (We have)	One lives (We live)	One is (We are)
We have	We live	We are
You have (formal/plural)		You are (formal/plural)
They have (Masculine/mixed)		They are (Masculine/mixed)
They have (feminine)		They are (feminine)

Grammar Explanation

Immediate Future Tense

To use the immediate future tense, take the appropriate form of the verb aller (to go) and add the infinitive verb.

For example:

Je vais + manger = je vais manger = I am going to eat. Nous allons + voyager = nous allons voyager = we are going to travel.

Below are some high frequency infinitives for you to practise with:

Aller = to go

Jouer = to play

Regarder = to watch

Visiter = to visit

Faire = to do

Manger = to eat

Avoir = to have

Être = to be

Prendre = to take



Grammar Explanation

Perfect (past) Tense

When forming the perfect tense, you take the correct form of **avoir** and add the past participle. For most **-er** verbs, you form the past participle by taking the ER off the infinitive verb and adding an é. For example, **manger = mangé**. You then use the appropriate form of **avoir**, such as **j'ai mangé = I** have eaten, **iI a mangé =** he has eaten

Voyager (to travel) = voyagé (travelled)

Manger (to eat) = mangé (eaten)

Loger (to stay - somewhere you have paid for) = logé

Forming the past participle is different for -re verbs and -ir verbs but we will learn these at a later stage.

Some verbs have irregular stems, such as:

Faire (to do) = fait (did). For example, j'ai fait = I did

However, some verbs use **être** instead of **avoir** when forming the perfect tense. One of these verbs is **aller**. For **aller**, you form the stem by taking the **er** off and adding **é**. You then use **être** to form the past tense, for example, **je suis allé** (masculine) or **je suis allée** (feminine).

The verb rester (to stay) also takes être.

Grammar Explanation

How do we use the Immediate Future Tense? For example:

Je vais + manger = _____

= I am going to eat.

Nous allons + voyager = _____ = we are going to travel.

Below are some high frequency infinitives for you to practise with:

• _____= to go

- _____= to play
- _____= to watch
- _____= to visit
- ____= to do

• _____= to eat

- _____= to have
- ____= to be

• _____= to take



Grammar Explanation

How do we form the Perfect (past) Tense?

Voyager (to travel) = _____(travelled)

Manger (to eat) = ____(eaten)

Loger (to stay - somewhere you have paid for) = _____

Forming the past participle is different for -re verbs and -ir verbs but we will learn these at a later stage.

Some verbs have irregular stems, such as:

Faire (to do) = _____(did). For example, _____= I did

However, some verbs use **être** instead of **avoir** when forming the perfect tense. One of these verbs is..

Talk about a past holiday

Forming the perfect tense (passé composé)

The perfect tense is how you say that you have done something in the past. For example, 'I have eaten' or 'I have played'.

To form the perfect tense, usually you use an auxiliary verb. To do this, take the correct form of the verb avoir (to have) and add a past participle (reference to the past).

For example, to say 'I have eaten' you use j'ai for 'I have' and add mangé for eaten. So it is j'ai 'mangé.

Mangé (ate) is the past participle of manger (to eat).

J'ai	I have
Tu as	You have (singular/informal)
ll a	He has
Elle a	She has
On a	One has(we have)
Nous avons	We have
Vous avez	You have(formal/plural)
Ils ont	They have (masculine/mixed)
Elles ont	They have (feminine)

Forming a past participle:

Regular ER verbs	Take the ER ending off, and add é. For example MANGER changes to mangé.	J'ai mangé = I have eaten
Regular IR verbs	Take the IR ending off and add i. For example, FINIR (to finish) changes to fini.	J'ai fini = I have finished
Regular RE verbs	Take the RE ending off and add u. For example RÉPONDRE (to respond) changes to répondu	J'ai répondu = I have responded
Note: there are some verbs that do not follow the above rule. These are called 'irregular verbs'.		

One example is BOIRE (to drink) which changes to bu. J'ai bu = I drank

When forming the perfect tense for some verbs, you need to use **ÊTRE as** the auxiliary verb instead of AVOIR

Examples of verbs that take être are aller (to go), sortir (to go out). RECAP of the auxiliary verb Être = to be

Je suis	lam
Tu es	You are(singular/informal)
Il est	He is
Elle est	She is
On est	One is (we are)
Nous sommes	We are
Vous êtes	You are (formal/plural)
Ils sont	They are (masculine/mixed)
Elles sont	They are (feminine)

Talk about a past holiday

Forming the perfect tense (passé _____

The perfect tense is how you say that you have done something in the past. For example, 'I have eaten' or 'I have played'.

To form the ______ tense, usually you use an auxiliary verb. To do this, take the correct form of the verb avoir (to have) and add a past participle (reference to the past).

For example, to say 'I_____' you use j'ai for 'I have' and add mangé for eaten. So it is j'ai 'mangé.

Mangé (____) is the past participle of manger (______).

Forming a past participle:

Regular ER verbs		
Regular IR verbs		
Regular RE verbs		
Note: there are some verbs that do not follow the above rule. These are called 'irregular verbs'. One example is BOIRE (to drink) which changes to bu. J'ai bu =		

When forming the perfect tense for some verbs, you need to use _____ as the auxiliary _____ instead of AVOIR

Examples of verbs that take être are aller (to go), sortir (to go out). RECAP of the auxiliary verb Être = _____

In French you do not say "I went" instead you say "I am gone". Je suis allé I am gone (e.g. I went)

Il est allé He is gone (e.g. he went)

To make it even trickier, the past participle agrees with the person using it.

Verb	Masculine	Feminine
ALLER (to go)	Je suis allé (I am gone) Ils sont allés (they are gone)	Je suis allée (I am gone) Elles sont allées (they are gone)
SORTIR (to go out)	Je suis sorti (I am went out)	Je suis sortie (I am went out)

Countries:

Allemagne - Germany Angleterre - England Écosse - Scotland Espagne - Spain États-Unis - USA France - France Grèce - Greece Italie - Italy Irlande - Ireland Pays de Galles - Wales



Describe Francophone festivals and traditions

Here are some useful verbs to use when talking about celebrations: fêter / célébrer - to celebrate décorer - to decorate s'habiller - to dress up offrir un cadeau - to give a present recevoir un cadeau - to receive a present As in the UK, Christmas and New Year are big celebrations for many people. Here is some useful vocabulary to get started talking about them: Nouvelle année - New Year le Jour de l'An - New Year's Day Le sapin - Christmas tree la coutume - custom/tradition Les feux d'artifice - fireworks le jour férié - public holiday/bank holiday la fête - party/festival Noël - Christmas la veille de Noël - Christmas Eve le réveillon du nouvel an - New Year's Eve père Noël - Father Christmas la tradition - tradition

Le chant de Noël - Christmas carol

Festivals in France

La Saint-Valentin - Valentines Day Pâques - Easter La fête des Mères - Mothers Day 14 Juillet / la fête nationale française - Bastille Day Le poisson d'avril - April Fool's Day

In French you do not say "I went" instead you say "I am gone". Je suis allé

__(e.g. I went)

Il est allé He is gone (e.g. he went)

To make it even trickier, the past participle agrees with the person using it.

Verb	Masculine	Feminine

Countries:



Describe Francophone festivals and traditions

Here are some useful verbs to use when talking about celebrations:

Festivals in France

Forming the perfect tense of reflexive verbs

Use a reflexive verb to describe an action that you do to yourself, or that 'reflects back' to yourself. They must include a **reflexive pronoun**, which changes depending on who is the subject of the verb. In the perfect tense, **all reflexive verbs take the auxiliary verb être** and the past participle must agree with the subject of the verb. Here is an example of a reflexive verb in the perfect tense:

Here is an example of a reflexive verb in the perfect tense:

se laver	to wash (yourself)
je me suis lavé(e)	I washed (myself)
tu t'es lavé(e)	you washed (yourself)
il/elle/on s'est lavé(e)(s)	he/she/one washed (himself/herself/oneself)
nous nous sommes lavé(e)s	we washed (ourselves)
vous vous êtes lavé(e)(s)	you washed (yourself)
ils/elles se sont lavé(e)s	they washed (themselves)

Remember When using être as an auxiliary verb, the past participle agrees with the subject. Elle est allée à la banque. - She went to the bank. Ils sont allés à la banque. - They went to the bank. **Describe a future visit to a Francophone festival**

Using the verb aller (to go) to describe a future event You can use the verb aller to describe what you are going to do in the future.

To do this, use the correct part of aller plus an infinitive verb.

For example, je vais manger = I am going to eat. This is because **je vais** means I am going and **manger** means to eat.

Another example is je vais aller = I am going to go

Aller (to go) in the present tense		Infinitive
Je vais = I am going Tu vas = You (informal) are going Il va = He is going Elle va =She is going On va = On is (we are) going Nous allons = We are going Vous allez = You plural/polite are going Ils vont = They are going (m) Elles vont = They are going (f)	+	aller - to go Visiter / rendre visite - to visit fêter - to celebrate décorer - to decorate s'habiller - to dress up offrir un cadeau - to give a present recevoir un cadeau - to receive a present

Forming the perfect tense of reflexive verbs

Use a reflexive verb to describe an action that you do to _____, or that 'reflects back' to yourself. They must include a **reflexive** _____, which changes depending on who is the subject of the _____. In the perfect tense, **all reflexive verbs take the** _____**verb être** and the past participle must agree with the subject of the verb.

Here is an example of a _____ verb in the perfect tense:

Here is an example of a reflexive verb in the perfect tense:

se laver	to wash (yourself)

Remember When using être as an auxiliary verb, the past participle agrees with the subject.

Describe a future visit to a Francophone festival
Using the verb aller (to go) to describe a future event
You can use the verb to describe what you are
going to do in the future.
To do this, use the correct part of aller plus an
infinitive verb.
For example, je vais manger = . This is
because je vais means I am going and means
to eat.

Another example is je vais aller =

Aller (to go) in the present tense		Infinitive
	+	

Describe where I live now and the house of my dreams <u>Rooms of the house</u>

Dans ma maison il y a = in my house there is Dans la maison de mes rêves il y aurait = In my dream house there would be

Une cuisine = a kitchen Une a manger = a dining room un grenier = an attic Une salle de jeux = a games room un salon = a living room Une cave = a basement Une chambre = a bedroom Une salle de bain = a bathroom un garage = a garage Un jardin = a garden

RECAP: Adjectival agreement and placement

confortable = cosy Vieux / vieille = old Joli(e) = beautiful/pretty bien éclairé(e) = well lit grand(e) = big petit(e) = small

In French adjectives usually come <u>after the noun</u>. For example: Un canapé **confortable** A **comfortable** sofa However there are some exceptions to the rule. Learn this acronym to help you remember:

Beauty (beau/belle, joli(e))
Age (vieux / vieille)
Grandness (super, grand, superbe)
Size (grand(e), petit(e))
Any adjectives that are BAGS go before the noun.

For example: Une **petite** maison A **little** house

Adjectives also change based on the **gender** of the noun: Masculine: Un canapé **vert** A **green** sofa

Feminine: Une commode verte A green chest of draws

Plural: Les canapé **verts**. The **green** sofas



Describe where I live now and the house of my dreams Rooms of the house

Dans ma maison il y a = in my house there is Dans la maison de mes rêves il y aurait = In my dream house there would be

RECAP: Adjectival agreement and placement

In French adjectives usually come <u>after the noun</u>. For example: Un canapé **confortable** A **comfortable** sofa However there are some exceptions to the rule. Learn this acronym to help you remember:

For example:

A little house

Adjectives also change based on the **gender** of the noun:

A <u>noun</u> refers to a person, a thing or a concept. Unlike in English, all French nouns have a gender. This means that each noun is <u>masculine</u> or <u>feminine</u>, and any <u>article</u> accompanying it has to be masculine or feminine too. In English, these articles are 'the', 'a' (or 'an') and 'some'.

	masculine	feminine	plural
the	le	la	les
a (or an), some	un	une	des

There are some rules that help work out the gender. Masculine nouns often end in:

•-eau, eg le château – castle

- •-isme, eg le racisme racism
- •-ment, eg le médicament medicine

Feminine nouns often end in:

-ade, eg la promenade – walk
-ode, eg la mode – fashion
-ude, eg l'habitude – habit
-ance, eg la confiance – confidence
-ence, eg la licence – degree
-ette, eg la vedette – film star
-sion, eg la télévision – television
-tion, eg la natation – swimming
-ure, eg la nourriture – food



Masculine and feminine nouns

All female family members are feminine and all male family members are masculine. For example:

la tante - aunt
la sœur - sister
le grand-père - grandfather
le frère – brother



•For job titles, the gender depends on whether it is a man or a woman doing the job. Sometimes the word for the job changes depending on the gender. For example:

Masculine	Feminine	English
le directeur	la directrice	headteacher, director
le coiffeur	la coiffeuse	hairdresser
l'infirmier	l'infirmière	nurse

Units of measurement, languages and meals are masculine. For example:

le litre - litre
le français - French
le petit déjeuner - breakfast

A <u>noun</u> refers to a person, a thing or a concept. Unlike in English, all French nouns have a gender. This means that each noun is <u>masculine</u> or <u>feminine</u>, and any <u>article</u> accompanying it has to be masculine or feminine too. In English, these articles are 'the', 'a' (or 'an') and 'some'.

	masculine	feminine	plural
the			
a (or an), some			

There are some rules that help work out the gender. Masculine nouns often end in:

Feminine nouns often end in:



Masculine and feminine nouns

All female family members are feminine and all male family members are masculine. For example:



For job titles, the gender depends on whe doing the job. Sometimes the word for the job cost the gender. For example: an or a woman es depending on

Units of measurement, languages and meals are masculine. For example:

Describe my dream house.

The <u>conditional tense</u> is used to describe what someone would do or what would happen in the future. It can also be used to express ambitions and intentions. For example:

Si c'était possible je voudrais habiter dans une grande maison et il y aurait une piscine.

If it were possible I would live in a big house and there would be a swimming pool.

How to form the conditional tense.

To conjugate verbs in the conditional tense follow these simple steps. 1.Take an infinitive. Your infinitive is the stem.

(Remember infinitives end in er, re or ir.)

2.Add the conditional tense endings. Note: these are the same endings as the imperfect tense

	Stem	Conditional endings	Example	English
je	regarder	-ais	je regarderais	I would watch
tu	manger	-ais	tu mangerais	you would eat
il/elle/on	jouer	-ait	il/elle/on jouerait	he/she/it would play
nous	finir	-ions	nous finirions	we would finish
vous	partir	-iez	vous partiriez	you would leave
ils/elles	vendr	-aient	ils/elles vendraient	they would sell

The same verbs that have **irregular** stems in the simple future have irregular stems in the conditional:

Infinitive	Future stem	Example	English
avoir (to have)	aur-	j'aurais	I would have
être (to be)	ser-	tu serais	you would be
faire (to do)	fer-	il ferait	he would do
aller (to go)	ir-	elle irait	she would go
devoir (to have to)	devr-	nous devrions	we would have to/we should
pouvoir (to be able to)	pour-	vous pourriez	you would be able to/you could
vouloir (to want to)	voudr-	ils voudraient	they would want to
voir (to see)	verr-	elles verraient	they would see

The conditional of vouloir means 'would like'. Je voudrais is a very common phrase and it can be followed by either a <u>noun</u> or another <u>verb</u> (in the infinitive). For example:

•Je voudrais une baguette et deux croissants. – I would like a baguette and two croissants.

•Nous voudrions partir cet après-midi. – We would like to leave this afternoon.

Describe my dream house.

The <u>conditional tense</u> is used to describe what someone would do or what would happen in the future. It can also be used to express ambitions and intentions. For example:

If it were possible I would live in a big house and there would be a swimming pool. How to form the conditional tense.

To conjugate verbs in the conditional tense follow these simple steps. 1.Take an infinitive.

(Remember infinitives end in er, re or ir.)

Stem	Conditional endings	Example	English

The same verbs that have <u>irregular</u> stems in the simple future have irregular stems in the conditional:

Infinitive	Future stem	Example	English

The conditional of vouloir means 'would like'. Je voudrais is a very common phrase and it can be followed by either a <u>noun</u> or another <u>verb</u> (in the infinitive). For example:

I would like a baguette and two croissants.

We would like to leave this afternon

Talk about my town.

You can use both the present tense and the imperfect tense to talk about your town.

Dans ma ville il y a = In my town there is Dans ma ville il y avait = In my town there used to be c'est = it is C'était = it was / used to be

Positives about your town	Negatives about your town	1
c'est un endroit intéressant (it's an interesting place) On peut se promener/balader (you can walk around) il y a beaucoup de magasins à l'intérieur (there are lots of shops inside) ça m'intéresse (it interests me) il y a beaucoup de choses à faire	c'est ennuyeux (it's boring) il n'y a rien à voir (there is nothing to see) Ça ne m'intéresse pas du tout (it doesn't interest me at all) il n'y a pas de bons magasins (there's no good shops) c'est sale (it's dirty) c'est pollué (it's polluted)	
(there are lots of things to do) c'est divertissant (it's entertaining) les gens sont gentils (the people are nice) il y a beaucoup de bars et de restaurants (there are lots of bars and restaurants)	es bondé (it's crowded) c'est bruyant (it's noisy) c'est trop cher (it's too expensive)	

Location	Verb	Place in town
Où j'habite (where I live)	il y a (there is)	un bâtiment célèbre (a famous
Dans ma ville (dans ma ville)		building)
	il y avait (there used	une mosquée (a mosque)
Près de ma ville	to be)	une église (church)
(près de ma ville)		un marché aux puces (a flea market)
		un quartier historique (a historic
Dans les banlieues		neighbourhood)
Dans ma ville (dans ma ville)		un aquarium
		un parc d'attraction (a theme park)
Dans le centre ville		
		une fête foraine (a fun fair)
Dans mon quartier		un club de jeunes (a youth club)
(In my neighbourhood)		un centre sportif (a sports centre)
		une route piétonne (a pedestrian roa
Dans ma rue		un lac (a lake)
(On my street)		une rivière (a river)
		une forêt (a forest)
Près de ma maison		quelques discothèques (some night
(Near to my house)		clubs)
		un pont historique (a historic bridge)
Pas loin de chez moi		une galerie d'art (an art gallery)
(Not far from my house)		
Sur la côte (on the coast)		

Talk about my town.

You can use both the present tense and the imperfect tense to talk about your town.

Dans ma ville il y a = Dans ma ville il y avait =

c'est = C'était =

Positives about your town	Negatives about your town

Location	Verb	Place in town	
			h

Year 10 Spa	anish:	Grammar Explanation							
Tener (To have)		There is a three-step method that will make conjugating regular Spanish verbs very easy for you. In order to conjugate verbs that end with -ar in the preterite tense you:							
Tengo	l have	 Find the infinitive (full verb) 							
Tienes	You have	 Cut off the -ar Add the new ending (é, aste, ó, amos, asteis, aron) 							
Tiene	He/She/It has			English	Spanish subject	ar	Viajar		
Tenemos	We have		n /	subject pronoun	pronoun	ending	(to travel)		
Tenéis	You (plural) have			1	уо	é	viaj é		
Tienen	They have			you	tú	aste	viaj aste		
Ser (T	o be)	Ir (To go) Present tense				he/she we	él/ella nosotros/nosotras	ó amos	viaj ó viaj amos
Soy	l am	Fui	l went	you (plural)	vosotros/vosotras	Asteis	viaj asteis		
Eres	You are	Fuiste	You went	they	ellos/ellas	aron	viaj aron		
Es	He/She/It is	Fue	He/She/It wet			Alex			
Somos	We are	Fuimos	We went	e					
Sois	You (plural) are	Fuisteis	You (plural) went				5		
Son	They are	Fueron	They went		SPAI	N			

Year 10 Spa	anish:	Grammar Explanation					
Tener (T	Tener (To have) I have You have		In order to conjugate • •	verbs that end v Find the infinitiv Cut off the <mark>-ar</mark>	gating regular Spanish ve vith - <mark>ar</mark> in the preterite t e (full verb) ding (é, aste, ó, amos, as	ense you:	sy for you.
	He/She/It has We have			English subject pronoun	Spanish subject pronoun _{Complete below:}	ar ending	Viajar (to travel)
	You (plural) have They have			l you he/she	-	-	-
Ser (T	o be)	ا (To go)	Present tense	we	-	-	-
	l am		l went	you (plural)	-	-	-
	You are		You went	they	-	-	-
	He/She/It is		He/She/It wet			Alex	
	We are		We went	e			
	You (plural) are		You (plural) went		- A		
	They are		They went		SPAI	N	

How to form the immediate future tense:

To say what you are going to do, you can use the near immediate future tense.

This is formed by using the correct part of the verb ir (to go), plus the infinitive of another verb.

Voy a ir al cine I am going to go to the cinema

There is a three-step method that will make conjugating regular Spanish verbs very easy for you.

For **ER** and **IR** verbs you:

- Find the infinitive (full verb)
- Cut off the -er or -ir
- Add the new ending (í, iste, ió, imos, isteis, ieron)

	a jugar al fútbol oing to play footb		English subject pronoun	Spanish subject pronoun	ar ending	Comer (to eat)
Ir (to go)	Preposition	Infinitive	1	уо	í	comí
			you	tú	iste	comiste
Voy (I am going) Vas (you are going) Va (he/she is going) Vamos a (we are going) Van a (we are going)	а	Jugar - to play Ver - to see Hacer - to do Montar - to ride Ser - to be Tener - to have	he/she we you (plural) they	él/ella nosotros/nosotras vosotros/vosotras ellos/ellas	ió imos isteis ieron	comió comimos comisteis comieron

Grammar Explanation

Year 10 Spanis	sh:			藤		*
How do we form t	How do we form the immediate future tense?			Grammar Exp	lanation	
Lamgoi	ng to go to the cin	ema	There is a three • •	e-step method that will mak very easy fo For ER and IR v - -	r you.	gular Spanish verbs
	going to play footb		English subject pronoun	Spanish subject pronoun	ar ending	Comer (to eat)
Ir (to go)	Preposition	Infinitive	1	-	-	-
(I am going) (you are going) (he/she is going) (we are going) (we are going)	а	- to play - to see - to do - to ride - to be - to have	you he/she we you (plural) they	- - - -	- - -	- - - -

Talk about a past holiday RECAP: Ir (to go) in the preterite tense

Remember in Spanish the **ending** of a verb tells you who you are talking about and what the tense is. Examples: ¿Fuiste a España? You went to Spain? Mis primos fueron a Italia My cousins went to Italy

Countries: Alemania - Germany Escocia - Scotland España - Spain Estados Unidos - USA Francia - France Gales - Wales Grecia - Greece Italia - Italy Irlanda - Ireland Inglaterra - England



Remember in Spanish it is the **end of the verb** that tells you the tense and who you are talking about. For example:

We know that 'bailé' is in the preterite past tense and it is the "I" form as it ends in 'é'

Grammar explanation - the preterite tense

The Spanish **preterite tense** is used to describe **completed actions in the past**. For example:

Fui al cine ayer (I went to the cinema yesterday).
Viajamos en tren (We travelled by train).
Mi hermana hizo sus deberes (My sister did her homework).

In order to conjugate verbs in the preterite tense you:

1.Take an infinitive.

(Remember infinitives end in ar, er or ir.)

2.Remove the ar, er or ir to form the stem

For example the stem of hablar would be habl

3.Add correct ending to the stem

	AR verbs	ER / IR verbs
yo (I)	é	í
tú (you)	aste	iste
él/ella (he/she)	ó	ió
nosotros (we)	amos	imos
vosotros (you plural)	astais	isteis
ellos/ellas (they masculine / they feminine)	aron	ieron

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Countries:



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	AR verbs	ER / IR verbs
уо (I)		
tú (you)		
él/ella (he/she)		
nosotros (we)		
vosotros (you plural)		
ellos/ellas (they masculine / they feminine)		

Describe a visit to a Hispanic festival

Here are some useful verbs to use when talking about celebrations: brindar - to toast celebrar - to celebrate decorar - to decorate disfrazarse - to dress up regalar - to give a present recibir un regalo - to receive a present As in the UK, Christmas and New Year are big celebrations for many people. Here is some useful vocabulary to get started talking about them:

el Año Nuevo - New Year el árbol de Navidad - Christmas tree la costumbre - custom/tradition los fuegos artificiales - fireworks el día festivo - public holiday/bank holiday la fiesta - party/festival la Navidad - Christmas la Nochebuena - Christmas Eve la Nochevieja - New Year's Eve Papá Noel - Father Christmas la tradición - tradition

el villancico - Christmas carol

Hispanic festivals

La Tomatina - La Tomatina is a festival that is held in the Valencian town of Buñol, in the east of Spain, in which participants throw tomatoes and get involved in a tomato fight purely for entertainment purposes.

Las Fallas - Las Fallas de Valencia is an annual celebration of the coming of spring, celebrated by burning artistic monuments and setting off fireworks.

Semana Santa (Holy Week) - Holy Week in Spain is the annual tribute of the Passion of Jesus Christ celebrated by Catholic religious brotherhoods (Spanish: hermandad) and fraternities that perform penance processions on the streets of almost every Spanish city and town during the Holy Week – the last week of Lent, immediately before Easter

El Día de los Muertos (The Day of the Dead) - a Mexican holiday where families welcome back the souls of their deceased relatives for a brief reunion that includes food, drink and celebration.





Describe a visit to a Hispanic festival

Here are some useful verbs to use when talking about celebrations:

Hispanic festivals





Describe a future to a Hispanic festival

Using the verb IR (to go) to describe a future event

You can use the verb ir to describe what you are going to do in the future.

To do this, use the correct part of ir plus an infinitive verb.

For example, voy a comer = I am going to eat. This is because voy a means I am going and comer means to eat.

Another example is voy a ir = I am going to go

Ir (to go) in the present tense

Describing location

You can give more details about where you live by using está (is).

For example:

•Vivo en una ciudad pequeña. <u>Está</u> en la costa y <u>está</u> cerca de Aberdeen - I live in a town. *It is* on the coast and *is* near to Aberdeen.

•Vivo en un pueblo en la montaña. <u>Está</u> lejos de la capital - I live in a village in the mountains. *It is* far from the capital.

Use the table below to give more detail about where you live.

		Infinitive	Spanish	English
Ir (to go) in the present tense		linitive	está	it is
			cerca de	near to
Voy a = I am going		ir- to go	lejos de	far from
Vas a = You are going Va a = He/she is going		visitar - to visit brindar - to toast	en la costa	on the coast
Vamos a = We are going		celebrar - to celebrate	en la montaña	in the mountains
Vais = You plural go Van a = They are going	+	decorar - to decorate disfrazarme - to dress up	en el campo	in the countryside
		regalar - to give a present	en el centro	in the centre
		recibir un regalo - to receive a present	en el norte/sur/este/oeste	in the north/south/east/west

Describe a future to a Hispanic festival

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Use the table below to give more detail about where you live.

	Infinitive
+	
	+

Spanish	English

Describe where I live now and the house of my dreams Rooms of the house

En mi casa hay = in my house there is En la casa de mis sueños habría = In my dream house there would be Una cocina = a kitchen Un comedor = a dining room Un desván = an attic Una sala de juegos = a games room Un salón = a living room Un sótano = a basement Un dormitorio = a bedroom Un cuarto de baño = a bathroom Un garaje = a garage Un jardín = a garden



RECAP: Adjectival agreement and placement

acogedor/a = cosy antiguo/a = old bonito/a = beautiful/pretty luminoso/a = well lit grande = big pequeño/a = small In Spanish adjectives usually come <u>after the noun</u>. Adjectives also change based on the **gender** of the noun: Masculine: Un piso pequeño A small flat Feminine: Una casa pequeña A small house

Remember in Spanish all nouns have a gender. A noun is a person, place or thing. All nouns in Spanish have a gender. That means they are either masculine or feminine. Although it might seem strange at first that nouns have a gender in Spanish, there are luckily lots of patterns and clues to help you to remember if a noun is masculine or feminine.

Masculine nouns

Most nouns that end in -o are masculine. For example: el teléfono - telephone el perro - dog

Male family members are always masculine. For example: hermano - brother padre - father

Days of the week and months are also masculine. For example: lunes - Monday diciembre - December

Feminine nouns

Most nouns that end in -a are feminine. For example: la casa - house la pierna - leg Female family members are always feminine. For example: hermana - sister madre - mother

There are also some groups of endings that are always feminine. For example: -ión - estación - station -dad - universidad - university -tad - dificultad - difficulty Another way to tell the gender of a noun is to look at its article. The words "a" and "the" are articles in English.

Describe where I live now and the house of my dreams Rooms of the house



RECAP: Adjectival agreement and placement

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Most nouns that end in -o are masculine. For example:

Male family members are always masculine. For example:

Days of the week and months are also masculine. For example:

Feminine nouns

Most nouns that end in -a are feminine. For example:

There are also some groups of endings that are always feminine. For example:

Another way to tell the gender of a noun is to look at its article. The words "a" and "the" are articles in English.

Articles in Spanish

	A	The	Му
Masculine	Un	El	Mi
Feminine	Una	La	Mi
Masculine Plural	Unos	Los	Mis
Feminine Plural	Unas	Las	Mis

Ser (to be)

Spanish	English
Soy	l am
Eres	You are
Es	He/she/it is
Somos	We are
Sois	You (plural) are
Son	They are

When to use SER or ESTAR

There are two verbs for <u>'to be'</u> in Spanish, ser and estar that you can use to talk about where you live.

Ser is used for permanent qualities, like your name, your place of origin, and your physical appearance.

Estar is used to talk about temporary situations, such as how you're feeling right now or location.

For example:

•Ser

• Mi pueblo <u>es</u> grande - My town *is* big. This is a description.

•Estar

• Mi pueblo <u>está</u> lejos de Mánchester - My town *is* far from Manchester. This is a **location**.

Estar (to be)

Spanish	English
Estoy	l am
Estás	You are
Está	He/she/it is
Estamos	We are
Estáis	You (plural) are
Están	They are



Articles in Spanish

	А	The	Му
Masculine			
Feminine			
Masculine Plural			
Feminine Plural			

Ser (to be)

Spanish	English

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is used to talk about **temporary situations**, such as **how you're feeling** right now or **location**.

For example:

•Ser

•Estar

- - is a **location**.

Estar (to be)

Spanish	English



Describe my dream house.

The <u>conditional tense</u> is used to describe what someone would do or what would happen in the future. It can also be used to express ambitions and intentions. For example:

Si fuera posible viviría en una casa grande y la casa tendría una piscina. If it were possible I would live in a big house and the house would have a swimming pool.

How to form the conditional tense.

To conjugate verbs in the conditional tense follow these simple steps. 1. Take an infinitive.

(Remember infinitives end in ar, er or ir.)

2.Add the conditional tense endings. The endings are the same for -ar, -er and -ir verbs.

	ending	vivir (to live)	meaning
yo (I)	ía	viviría	I would live
tú (you)	ías	vivirías	You would live
él/ella (he/she)	ía	viviría	He/she would live
nosotros (we)	íamos	viviríamos	We would live
vosotros (you plural)	íais	viviríais	You (plural) would live
ellos/ellas (they masculine / they feminine)	ían	vivirían	They would live

Some verbs like tener (to have) are irregular verbs. This means they don't always follow the same pattern as other verbs. To change tener (to have) to the conditional tense you use the irregular stem tendr plus the endings above.

For example -

I would have = tendría



Year 10 Spanish:

Describe my dream house.

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Take an _____.

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ending	vivir (to live)	meaning

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For example -

I would have =



Year 10 Spanish:

Talk about my town.

You can use both the present tense and the imperfect tense to talk about your town.

En mi pueblo hay = In my town there is En mi pueblo había = In my town there used to be Es = it is Era = it used to be

Positives about your town	Negatives about your town	En el centro de la ciudad
es un lugar interesante (it's an interesting place) se puede caminar (you can walk around) hay muchas tiendas adentro (there are lots of shops inside) me interesa (it interests me) hay muchas cosas que hacer (there's lots of things to do) es entretenido (it's entertaining) la gente es simpática (the people are nice) hay muchos bares y restaurantes (there are a lot of bars and restaurants)	es aburrido (it's boring) no hay nada que ver (there's nothing to see) no me interesa nada (it doesn't interest me at all) no hay buenas tiendas (there aren't any good shops) es sucio (it's dirty) es contaminado (it's polluted) es abarrato (it's crowded) es ruidoso (it's crowded) es demasiado caro (it's too expensive)	 (In the city centre) En mi barrio (in my neighbourhood) En mi calle (on my street) Cerca de mi casa (near my house) No muy lejos de mi casa (not far from my house) Por la costa (by the coast)

	Location	Verb	Place in town
	Donde vivo (Where I live)	hay (there is)	un edificio famoso (a famous building)
	En mi pueblo (in my town)	había (there used to be)	una mezquita (a mosque) una iglesia (a church) un mercado de pulgas (flea market)
	Cerca de mi pueblo	,	un barrio histórico (a historic
o be	(near my town)		neighbourhood) un acuario (an aquarium)
	En las afueras (on the outskirts)		un parque de atracciones (a theme park)
	· ·		una feria (funfair)
	En mi ciudad (in my city)		un club juvenil (a youth club) un polideportivo (a sports centre
	En el centro de la ciudad (In the city centre)		un camino peatonal (pedestrian road) un lago (a lake)
nothing			un río (a river)
ı't	En mi barrio (in my neighbourhood)		un bosque (wood) unas discotecas (night clubs)
aren't	En mi calle (on my street)		un puente histórico (historic bridge) una galería de arte (an art gallery)
)	Cerca de mi casa (near my house)		
pensive)	No muy lejos de mi casa (not far from my house)		
	Por la costa (by the coast)		



Year 10 Spanish:

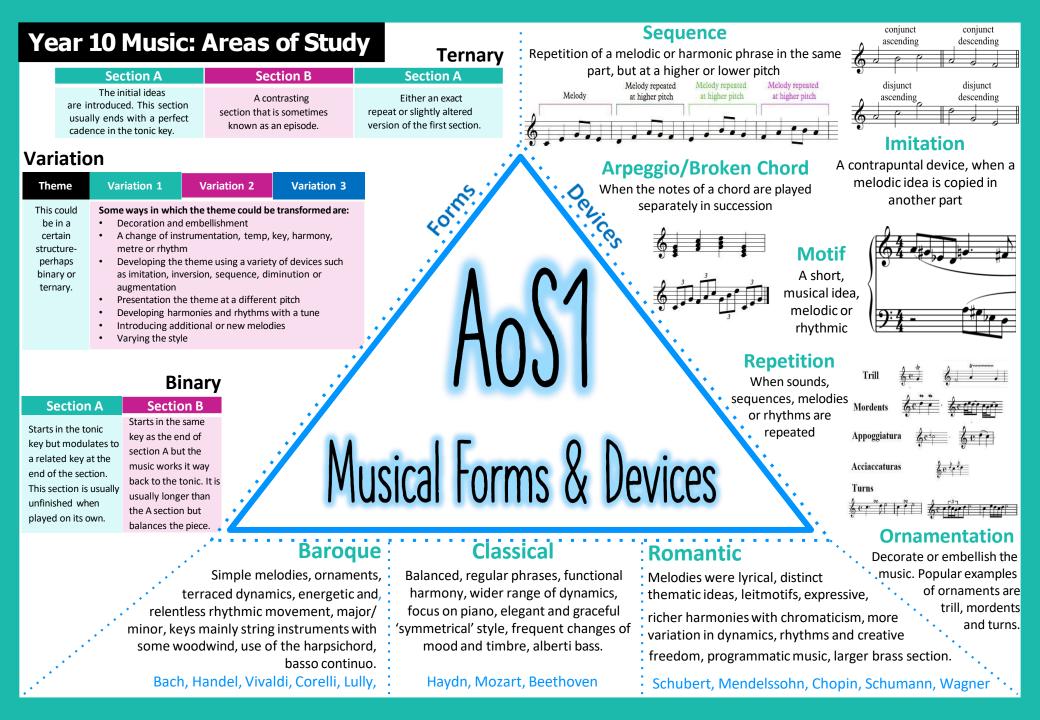
Talk about my town. You can use both the present tense and the imperfect tense to talk about your town.		Location	Verb	Place in town
Positives about your town	Negatives about your town			

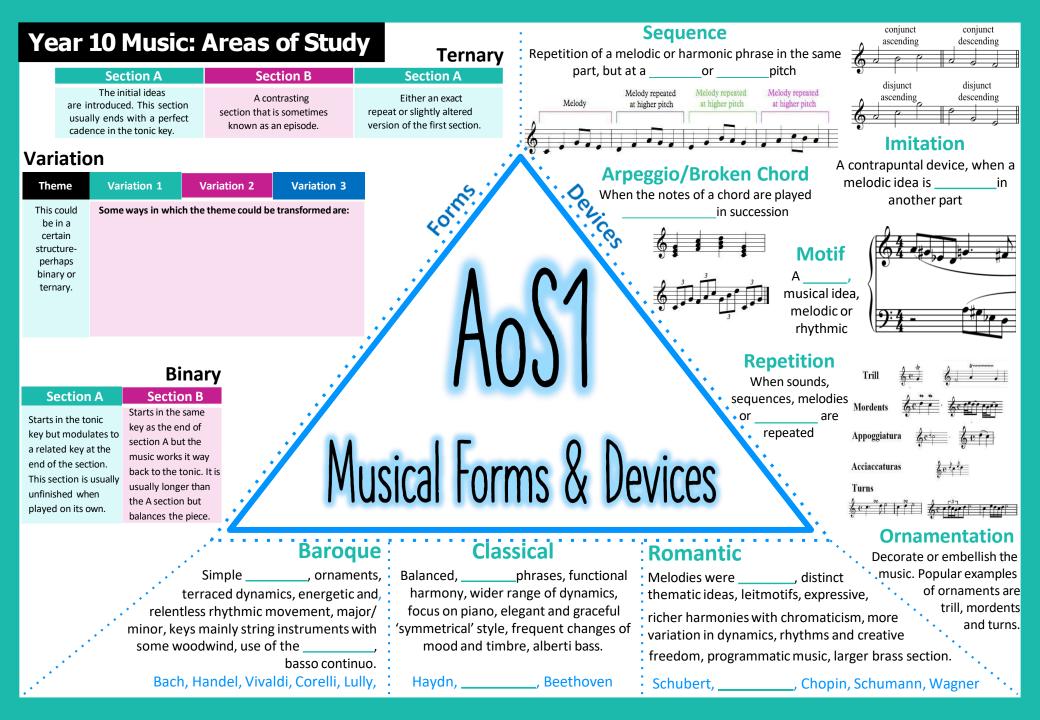


Music and Performing Arts

Helping every person achieve things they never thought they could.







In Jazz & Blues, the drummer keeps a steady beat. The bass player lays down a 'groove' and supports the improvisation sections. The keyboard player comps and improvises the Baroque • chords whilst the other instruments Improvise virtuosic

Basso Continuo Double bass and harpsichord providing harmony



Classical String Quartet 2 Violina, a viola & cello. 4 movements.

Romantic

String Quartets with a piano. Experimentation with different combinations of instruments to improve tone quality and overall sound.





A small group of classical musicians.



Classic

Blues band

Jazz & Blues 12-bar blues

Head arrangement



Modern Jazz band There are various instrumenta ensembles that accompany the singers onstage.

Key features in most jazz bands are: the instruments, use of

improvisation, the pentatonic scale, head arrangement,

melodic riffs, blues notes, use of the blues scale, call

and response and jazz virtuoso with solo sections.

Musicals use various vocal ensembles which •are known as the chorus. This features multiple vocal parts like Soprano, Alto, Tenor and Bass.



Large-scale musicals can use a full orchestra of musicians, but smaller shows may only use a small rock band.



Music for Ensemble

Sonority Individual tone colour or tone quality. The tone colour of different combinations of instruments can result in very different effects. It is its relative loudness and 'feel' compared with other sounds.

Texture					
Monophonic	Single melodic line or parts togethe in unison				
Homophonic	One melody heard with an accompaniment of chords				
Polyphonic	A number of melodies heard at one like imitation and counterpoint				

Ensemble

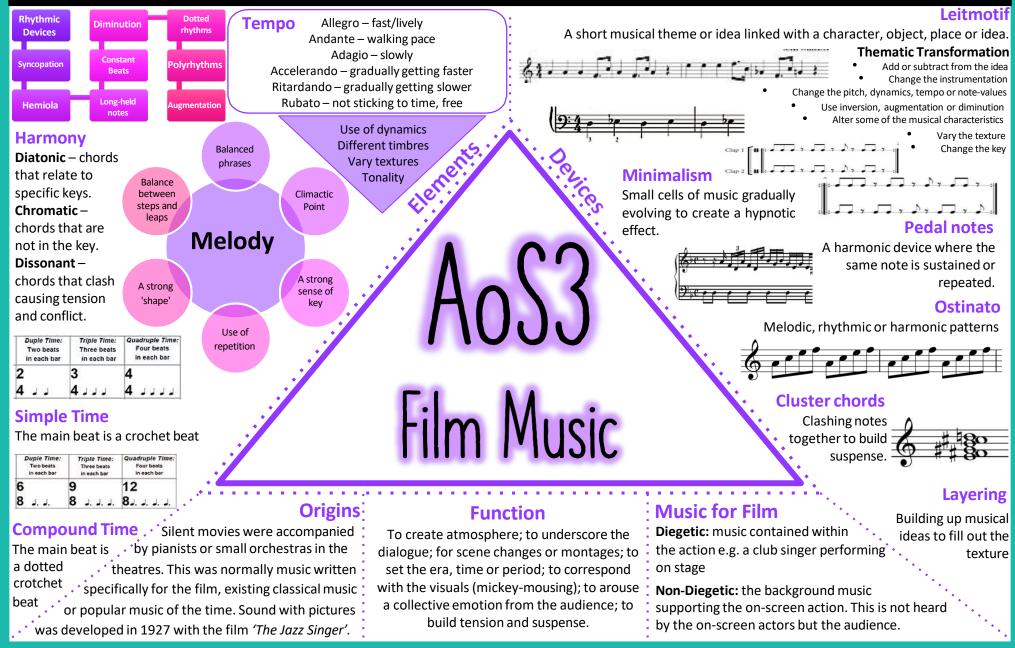
A group of performers, usually between 2 and 8. Examples include: basso continuo, string quartet, jazz and blues trios, a rhythm section and vocal ensembles (duets, trios, backing vocals).

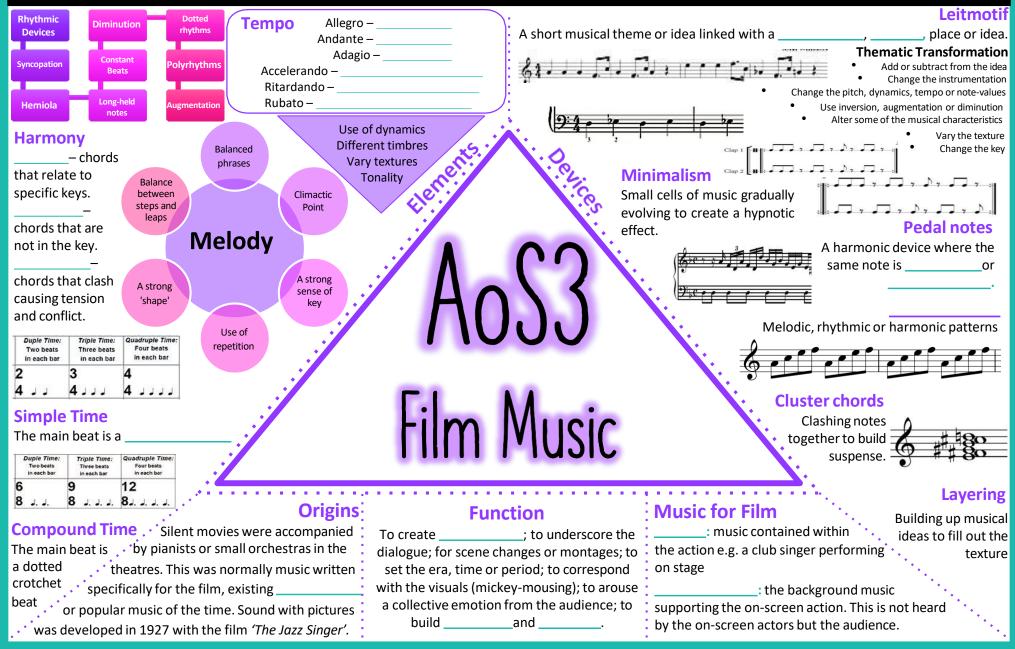
Year 10 Music: Areas of Study complete the missing knowledge

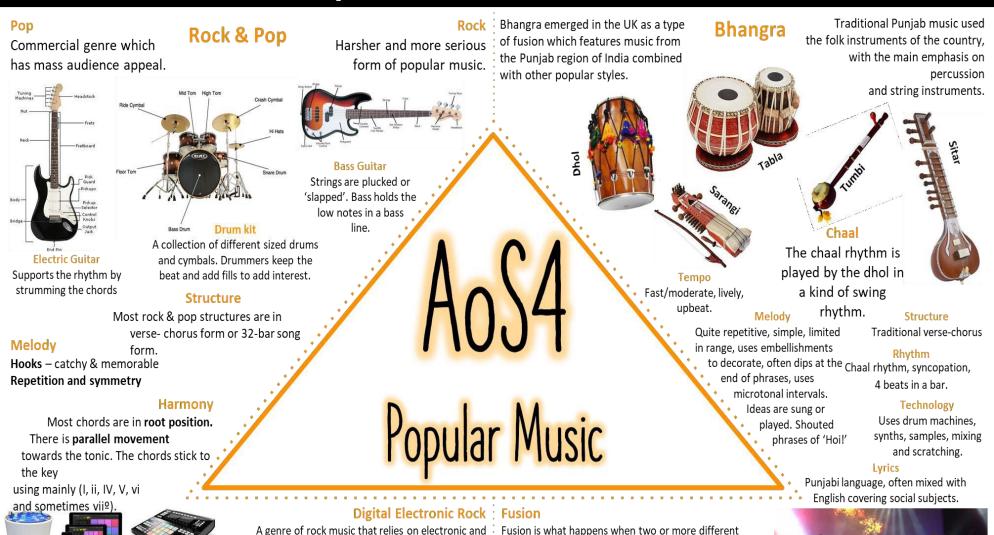


(duets, trios, backing vocals).

Polyphonic



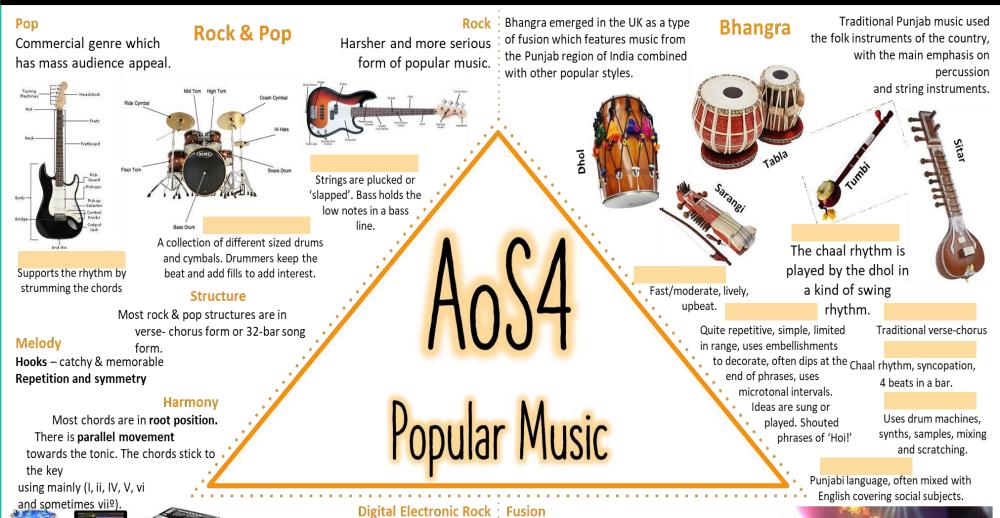




A genre of rock music that relies on electronic and digital instruments: synths, moogs and drum machines. These genres are: House, Techno, Trance, Dubstep, Indietronica. The reproduction of acoustic sounds can also be edited: remixing, panning, delay, reverb, phasing and looping.

Fusion is what happens when two or more different musical styles or genres are blended. Ray Charles combined musical elements of gospel and jazzinfluenced blues. The Pogues combines Celtic music with punk by playing with traditional Irish instruments. Afro Celt Sound System combine African, Celtic and Dance Music through instrumentation and elements.

Year 10 Music: Areas of Study complete the missing words below





digital instruments: synths, moogs and drum machines. These genres are: House, Techno, Trance, Dubstep, Indietronica. The reproduction of acoustic sounds can also be edited: remixing, panning, delay, reverb, phasing and looping.

A genre of rock music that relies on electronic and Fusion is what happens when two or more different musical styles or genres are blended. Ray Charles combined musical elements of gospel and jazzinfluenced blues. The Pogues combines Celtic music with punk by playing with traditional Irish instruments. Afro Celt Sound System combine African, Celtic and Dance Music through instrumentation and elements.



1738-39

The Baroque period

- Complex melodic lines with ornamentation
- Terraced dynamics
- Polyphonic texture
- Harpsichord and strings
- Basso Continuo

Instrumentation

Instrumentation: (Transverse) Flute String Orchestra Harpsichord (Basso Continuo).

Section A begins in **B minor** and ends in **F# minor** Section B: the opposite, beginning in **F# minor** and ending in **B minor**.

Tonality

Dynamics

Mostly *forte* Use of *terraced dynamics*



Melody

The movement is based on two short musical *ideas* (X and Y). The flute part has a two-octave pitch *range*. The movement includes *ornaments* and *compositional devices* typical of the Baroque era:

> *Trills*: Bars 8¹, 10¹, 15², 27², 30¹ and 32¹ *Appoggiaturas*: Bars 33¹ and 40¹ *Sequences*: 6² – 10¹ and bars 28² – 32¹.

Badinerie

1 . . . *

Rhythm

Simple ostinato rhythms, forming the basis of the two short musical ideas (X and Y) Consist almost totally of *quavers* and *semi- quavers*.

The time signature is 2/4 throughout



Temp

0 Allegro

Texture

Homophonic (*melody and accompaniment*). Flute and the cello provide the main musical material 1st violin participates occasionally 2nd violin and viola provide harmony with less busy musical lines.

Structure

11111111111

Binary form (AB), with each section repeated once (AABB)

Section A	Bars 0 ² - 16 ¹	16 bars
Section B	Bars 16 ² - 40 ¹	24 bars

Harmony

Diatonic throughout. Section A modulates from the tonic to the dominant minor and Section B does the opposite. Imperfect and perfect cadences are clearly presented throughout. Chords frequently occur in inversion with occasional use of V7 in third inversion. A Neapolitan sixth chord is used in bar 35. Suspensions also occur in bars 8¹, 10¹ and 32¹.

Year 10 Music: Areas of Study complete the missing words below

1738-39

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- Terraced dynamics
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> *Trills*: Bars 8¹, 10¹, 15², 27², 30¹ and 32¹ *Appoggiaturas*: Bars 33¹ and 40¹ *Sequences*: 6² - 10¹ and bars 28² - 32¹.

Badinerie

Rhythm

Simple ostinato rhythms, forming the basis of the two short musical ideas (X and Y) Consist almost totally of *quavers* and *semi- quavers*.

The time signature is



Temp

Allegro

Texture

Homophonic (*melody and accompaniment*). Flute and the cello provide the main musical material 1st violin participates occasionally 2nd violin and viola provide harmony with less busy musical lines.

Structure

form (AB), with each section repeated once (AABB)

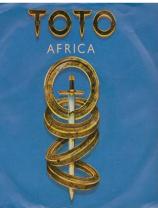
Section A	
Section B	

Bars 0²- 16¹ Bars 16²- 40¹ 16 bars 24 bars

Harmony

throughout. Section A *modulates* from the *tonic* to the *dominant* minor and Section B does the opposite. Imperfect and perfect cadences are clearly presented throughout. Chords frequently occur in *inversion* with occasional use of V7 in third inversion. A sixth chord is used in bar 35. Suspensions also occur in bars 8¹, 10¹ and 32¹.

1981 Toto IV David Paich & Jess Porcaro



Instrumentation

Rock Band: drum kit (keeps the groove) with additional percussion, lead guitar (plays solos and chords), bass guitar (holds the bassline), synthesizers (emphasizes the chords and leads the solo instrumental section), lead singer (sings the lyrics and melody). And male backing vocals (harmonies).

ys solos olds the ohasizes **Harmony** solo The harmony is **diatonic,** the chords used are based on the key of the piece. Power onies). chords and inversions.

Atrica

and accompaniment Melody

Mostly conjunct (moving in step) and includes occasional use of the pentatonic scale. The pitch range of the vocal line is just less than two octaves on the printed score, but it is wider on the recording with the vocal improvisations towards the end of the song.

Rhythm

Ostinato rhythms, consisting almost

totally of quavers, with constant use

of syncopation. The time signature is

2/2 (split common time) throughout.

Tempo

Moderately fast

Texture Homophonic: melody

Dynamics

Mainly mezzo forte, choruses are



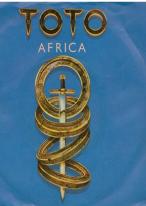
						forte
Intro	Verse 1/2	Chorus 1/2	Link	Instrumental	Chorus 3	Outro
Bars 1-4	Bars 5-39 Bars 14-39	Bars 40-57	58-65	66-82	Bars 40-92	Bars 93-96
B major	B major	A major	B major	B major	A major	B major
Syncopated chordal riff A running into ostinato riff B based on E pentatonic scale.	Mostly syllabic, syncopated rhythms that are conjunct. Final chord is sustained for drum fill.	Vocal texture builds on each line, mostly syllabic with melisma on the final melody.	Same as intro but only repeated once instead of three times.	Chords based on the verse but with instrumental melody based on riff B.	New e. guitar riff, lyrics are repeated with solo vocal improvisation	Same as intro, texture gradually decreases as the music repeats to fade out.

1.00

Year 10 Music: Areas of Study complete the missing words below

1981 **Toto IV**

& Jess Porcaro



Instrumentation

Rock Band: drum kit (keeps the groove) with additional percussion, lead guitar (plays solos and chords), bass guitar (holds the bassline), synthesizers (emphasizes the chords and leads the solo instrumental section), lead singer (sings the lyrics and melody). And male backing vocals (harmonies).

Harmony The harmony is chords used are based on the key of the piece. Power

chords and inversions.

the

Atrica

Texture

: melody and accompaniment

Melody

(moving in step) and includes occasional Mostly use of the pentatonic scale. The pitch range of the vocal line is just less than two octaves on the printed score, but it is wider on the recording with the vocal improvisations towards the end of the song.

Rhythm

totally of quavers, with constant use

of syncopation. The time signature is

2/2 (split common time) throughout.

rhythms, consisting almost

Tempo

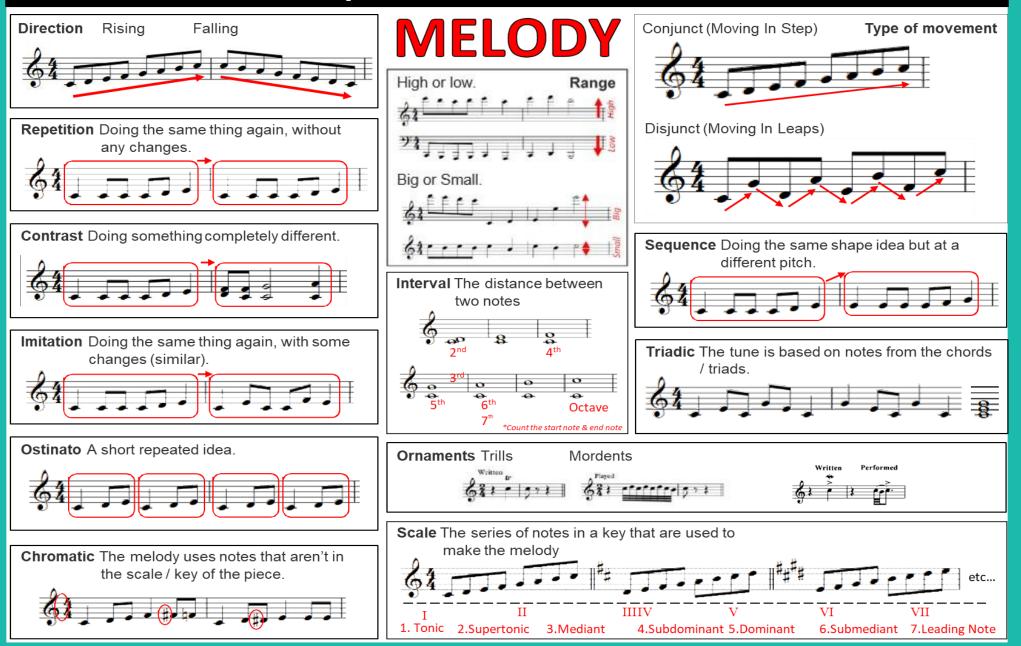
Moderately fast

Dynamics

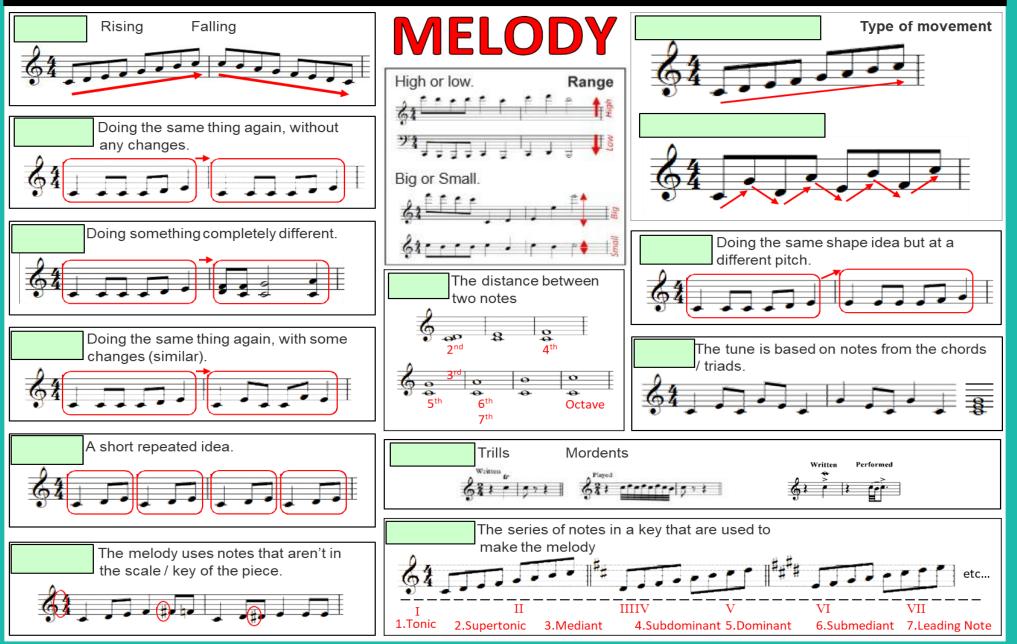
Mainly forte, choruses are



						forte
Intro	Verse 1/2	Chorus 1/2	Link	Instrumental	Chorus 3	Outro
Bars 1-4	Bars 5-39 Bars 14-39	Bars 40-57	58-65	66-82	Bars 40-92	Bars 93-96
Syncopated	Mostly	Vocal texture	Same as intro	Chords based	New e. guitar	Same as
chordal riff A	syllabic,	builds on	but only	on the verse	riff, lyrics are	intro, texture
running into	syncopated	each line,	repeated	but with	repeated with	gradually
ostinato riff B	rhythms that	mostly	once instead	instrumental	solo vocal	decreases as
based on E	are conjunct.	syllabic with	of three	melody based	improvisation	the music
pentatonic	Final chord is	melisma on	times.	on riff B.		repeats to
scale.	sustained for	the final				fade out.
	drum fill.	melody.				



Year 10 Music: Areas of Study complete the missing words



Not Dynamics...

Articulation is the way the performer plays / sings the note, not how loud they do it. That would be Dynamics instead.

ARTICULATION

More Than One...

You can write more than one type of articulation for the same note. For example:



(How the notes are played)

Staccato

Staccato means short and detached /seperated. *You will likely hear a gap between each note.



Shown by writing a dot just above/below the head of the note.

Legato

To play the music smoothly, without breaks between notes.

Slurred

Playing the notes in a legato style, without breaks between notes.



Shown with a slur on the score.

How? Some examples:

String Instruments - Play the notes without changing the direction of the bow.



Brass & Wind Instruments - Only tongue the first note, not the others.

Accented

Give extra emphasis or force to the marked notes.





Shown by writing an accent above/below the head of the note.

Glissando

*You can glissando upwards or downwards

A slide between two notes.

Marked with a glissando on the score.



Some Associated Markings On Vocal Music...

Phrase markings

Slurs drawn onto the score to show – singers what to sing in one breath.

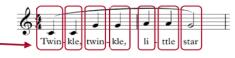


Syllabic

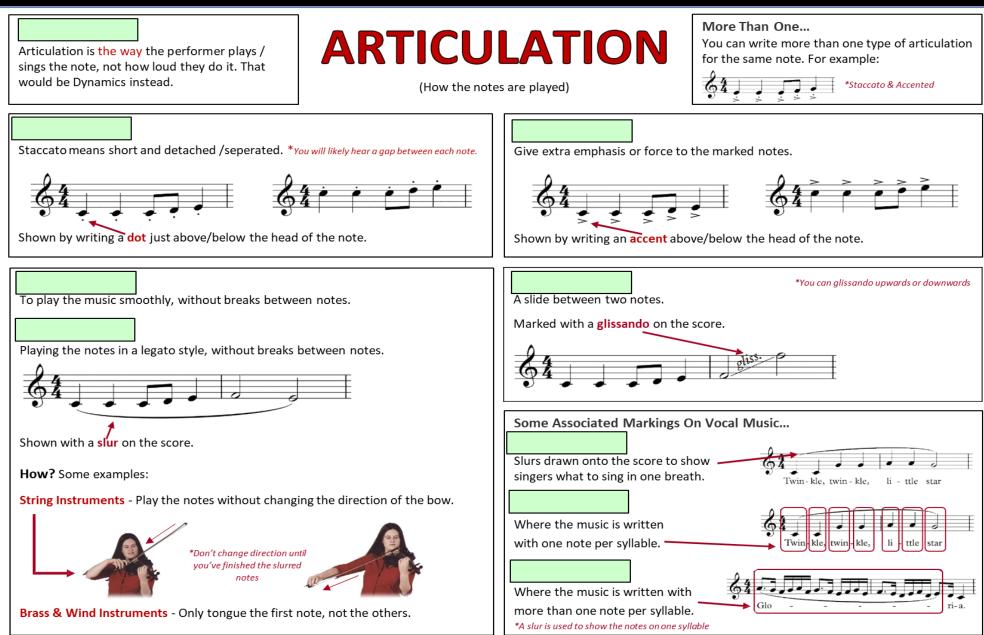
Where the music is written with one note per syllable.

Melismatic

Where the music is written with more than one note per syllable. *A slur is used to show the notes on one syllable







Describing What You Hear

On The Score

the two staves:

Comment on any changes - don't sum up the whole example with one word (unless it doesn't change!)

The music starts... then... the music ends...

Dynamics are marked underneath the music, to show the instrument how loudly it should play:

If it is a piano, the dynamics usually go in-between

For singers, dynamics usually go above the stave, so that they don't get mixed up with the lyrics:

DYNAMICS

(The volume of the music)

Writing Dynamics

Dynamics can create contrast in music.

Dynamics can add expression to the music.

Dynamics can allow the listener to hear the most important lines in the music.

Marking	Italian Term	Meaning	
pp	Pianissimo	Very Quiet	
Ρ	Piano	Quiet	
mp	Mezzo Piano	Moderately Quiet	
mf	Mezzo Forte	Moderately Loud	
f	Forte	Loud	
ff	Fortissimo	Very Loud	
	Crescendo	Getting Louder 🗸 🗸	
	Diminuendo	Getting Quieter	
sfz	Szorzando	Sudden Accent	

Baroque Period:

Twin - kle, Twin - kle,

Dynamics were rarely used (no crescendos and diminuendos). Use of <u>Terraced Dynamics</u>.

Classical Period: Some dynamics, to add contrast.

Romantic Period: Lots of crescendos & diminuendos and a large range of dynamics to add expression.

li - ttle star

Writing Your Own Dynamics

If using crescendos and diminuendos, make sure you say how loud/quiet you want the music to get. This will clearly show what you want.



Describing What You Hear

Comment on any changes - don't sum up the whole example with one word (unless it doesn't change!)

The music starts... then... the music ends...

DYNAMICS

(The volume of the music)

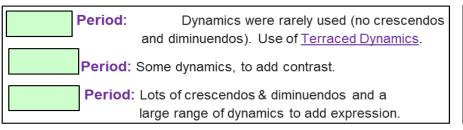
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pp		
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mf		
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ff		
	Crescendo	Getting Louder 🔷
	Diminuendo	Getting Quieter 🗸
	Szorzando	Sudden Accent



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If using crescendos and diminuendos, make sure you say how loud/quiet you want the music to get. This will clearly show what you want.



On The Score Dynamics are marked underneath the music, to show the instrument how loudly it should play:

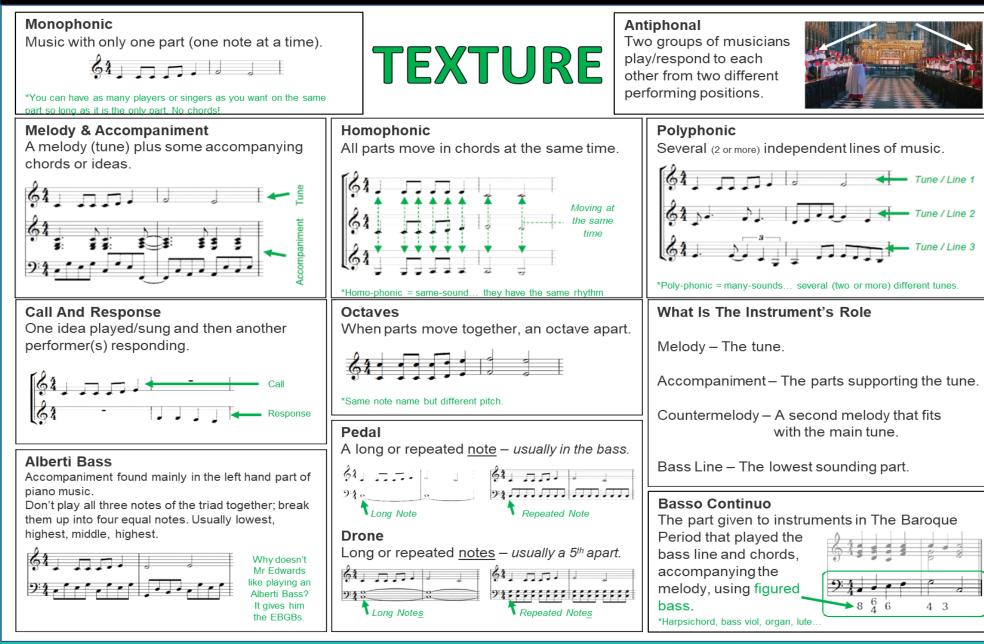


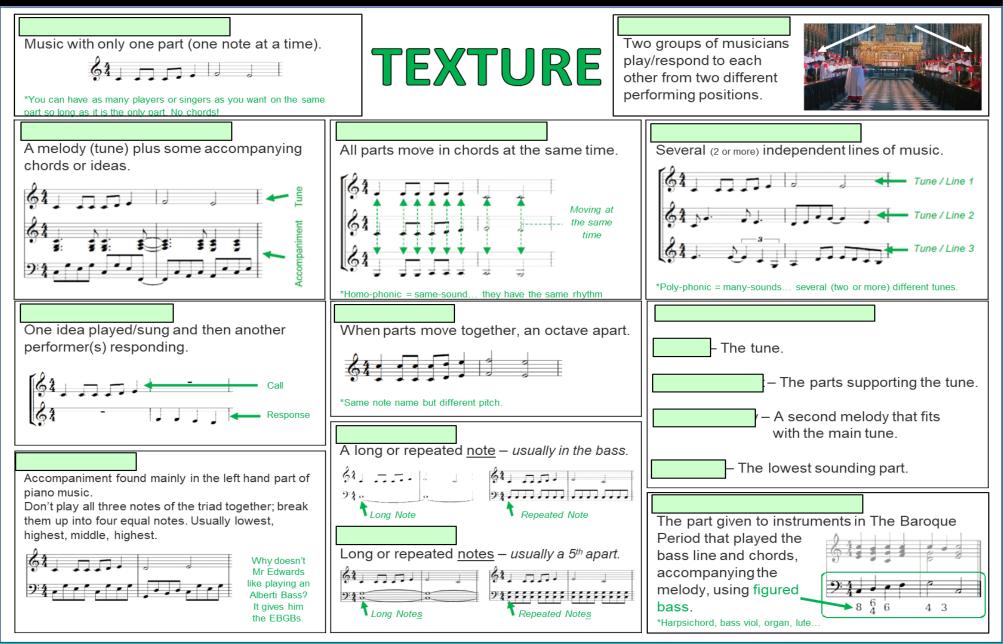
If it is a piano, the dynamics usually go in-between the two staves:

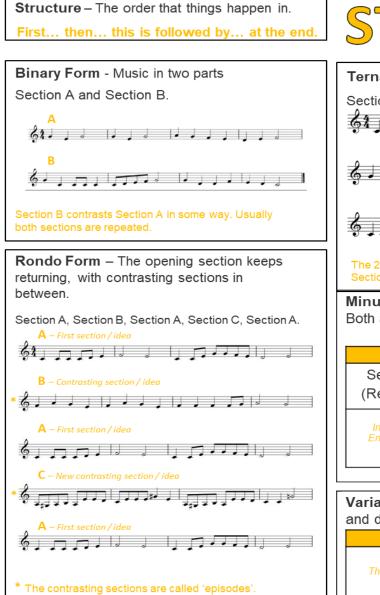


For singers, dynamics usually go above the stave, so that they don't get mixed up with the lyrics:

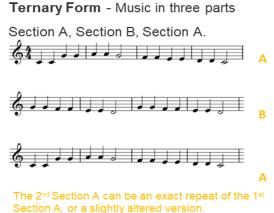








STRUCTURE



Song Form

Intro Verse Chorus Middle 8 Bridge Outro

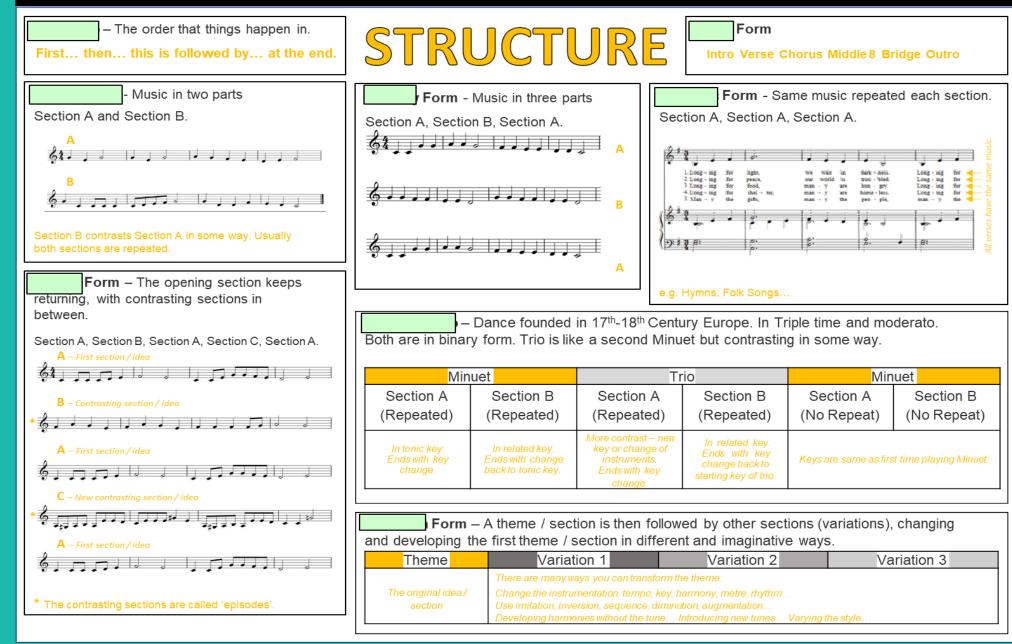


Minuet & Trio – Dance founded in 17th-18th Century Europe. In Triple time and moderato. Both are in binary form. Trio is like a second Minuet but contrasting in some way.

Minuet		Tr	io	Minuet	
Section A (Repeated)	Section B (Repeated)	Section A (Repeated)	Section B (Repeated)	Section A (No Repeat)	Section B (No Repeat)
In tonic key. Ends with key change.	In related key. Ends with change back to tonic key.	More contrast – new key or change of instruments. Ends with key change.	In related key. Ends with key change back to starting key of trio.	Keys are same as first time playing Minu	

Variation Form – A theme / section is then followed by other sections (variations), changing and developing the first theme / section in different and imaginative ways.

Theme	Variation 1	Variation 2	Variation 3		
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				



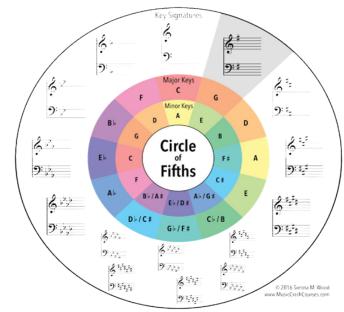
Key Signature

The sharps or flats at the start of a piece of music, showing what key the music is in.

HARMONY & TONALITY

(The chords and keys used in the music)

Major and Minor Key Signatures



*When you write music in a minor key you also need to raise the 7th note (leading note) up one small step - e.g. A minor uses G#s, not Gs.

Identifying The Tonality...

- Tonal In a major or Minor Key
- Atonal There is no sense of key
- Modal Uses 'old-fashioned' scales called modes
- Pentatonic The music only uses 5 notes

Chords

Triad - A chord with three notes (See below)

Power Chord – Only playing the Root and Fifth of a triad (used in Rock music)

Dissonance - Clashing notes played together

Consonance - Notes that fit / sound nice together

Primary Chords - The three most commonly used chords used in music: I, IV, V

Secondary Chords - The other chords: II, III, VI, VII

Chord Sequence - The order the chords in a piece of music follow (containing cadences at the ends of phrases)

Modulation

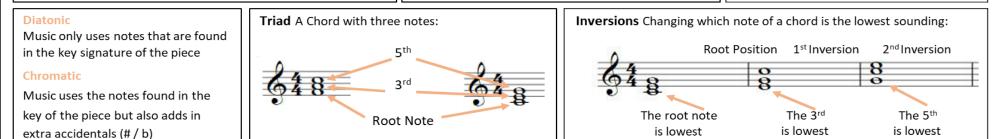
Musical word for key change. Most common changes: to Dominant or relative Major/Minor.

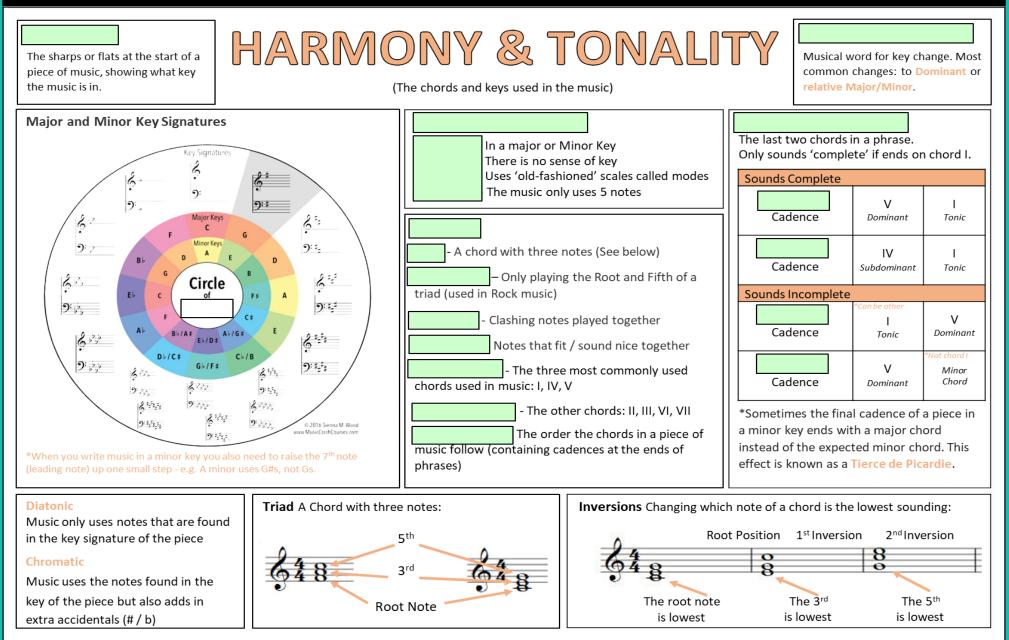
Cadences

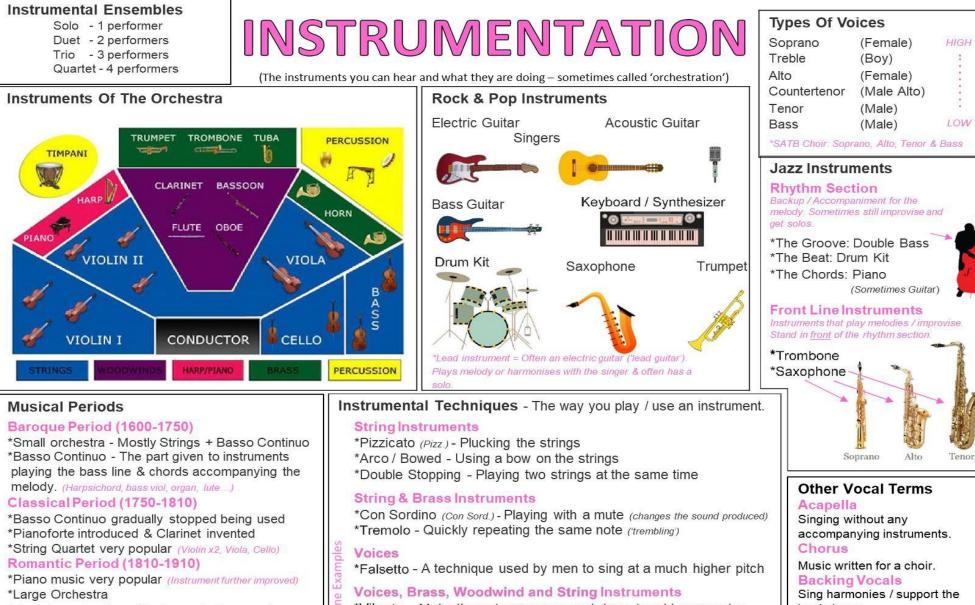
The last two chords in a phrase. Only sounds 'complete' if ends on chord I.

Sounds Complete						
Perfect Cadence	V Dominant	 Tonic				
Plagal Cadence	IV Subdominant	 Tonic				
Sounds Incomplete						
Imperfect Cadence	*Can be other Tonic	V Dominant				
Interrupted Cadence	V Dominant	*Not chord I Minor Chord				
*Sometimes the final cadence of a niece in						

*Sometimes the final cadence of a piece in a minor key ends with a major chord instead of the expected minor chord. This effect is known as a Tierce de Picardie.



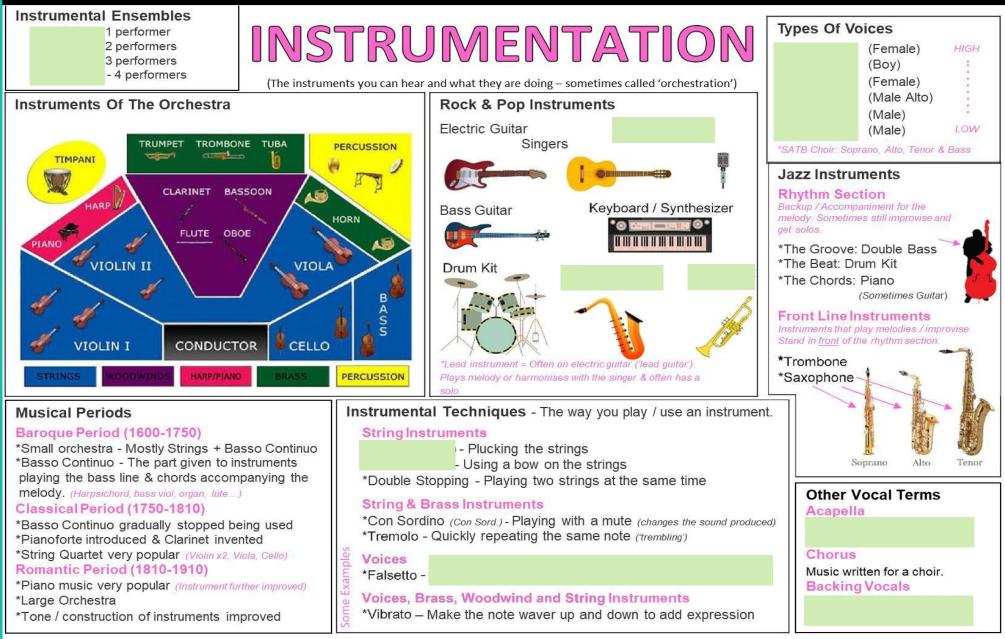




*Tone / construction of instruments improved

*Vibrato - Make the note waver up and down to add expression

lead singer.



Reading Rhythms

You need to be able to read all the different note lengths if you want to pass GCSE music. If you keep forgetting, look over them again!

RHYTHM & TEMPO

(The Patterns Of Note Lengths & Silences)

(The Speed Of The Music)

Working Out The Tempo

Tap your toe to the pulse of the music and think, 'how fast am I tapping'.

*If you tap your whole foot you might put off other pupils.

Durations				Dotted Notes	Tempo Markings	
Beats	Note	Rest	Name	If a dot is added to a note (or rest), add on half of what the	Marking	Meaning
4	•	•	Semibreve	note is already worth:	Allegro / Vivace	Fast or Lively
2			Minim	3 beats *2 (+1)	Allegretto	Quite Fast (Not as fast as Allegro)
	0		20070930.002.002.000 	1 ½ beats *1 (+ 1/2)	Moderato / Andante	Moderate / A Walking Pace
1		ł	Crotchet	34 beat *1/2 (+ 1/4)	Adagio / Lento	Slowly
1/2		• y	Quaver	Pause 0		Carada a lla Cara da lla
1/4		4	Semiquaver	If this symbol is written, stop the pulse of the music & pause on the note.	Accelerando Ritardando / Rallentando rit. rall.	Gradually Speed Up Gradually Slow Down
Syncopation Playing off (or in-between) the beat / pulse On The Beat Playing on one of the beats that			eat / pulse	Triplet Three notes played evenly in the space of two notes:	*60bmp = 60 *120bmp = 120	60 beats per minute (One every second)
you would 'tap your toe' to Off-beat Playing in-between the beats you would 'tap your toe' to			<u> </u>	Swung Rhythms *A main feature of Written rhythms are played differ to give a swing feeling.		Rubato *Translates as 'to steal time' Not sticking strictly to the tempo - to add feeling (Romanitc Period!)

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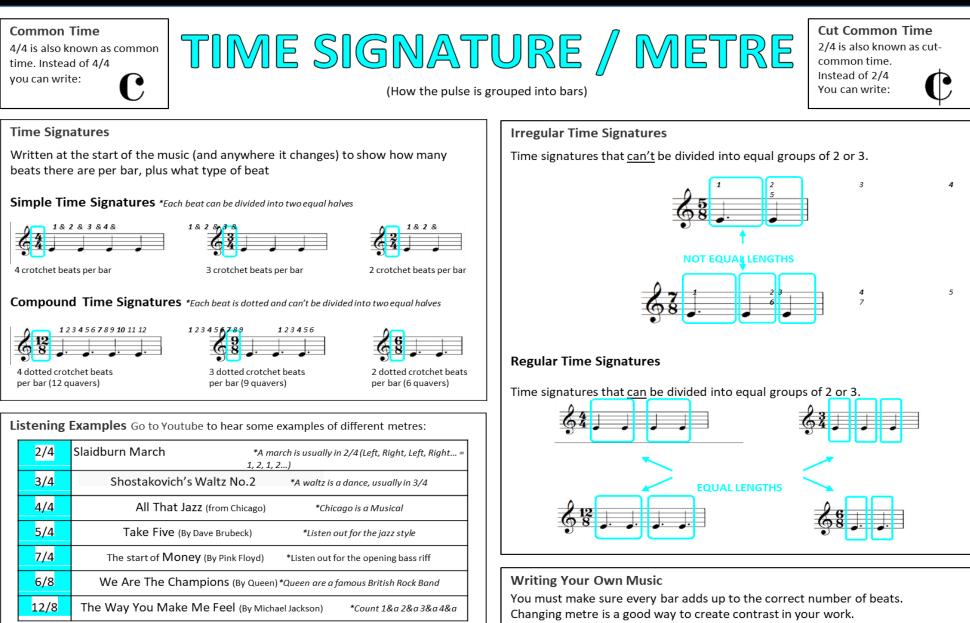
(The Speed Of The Music)

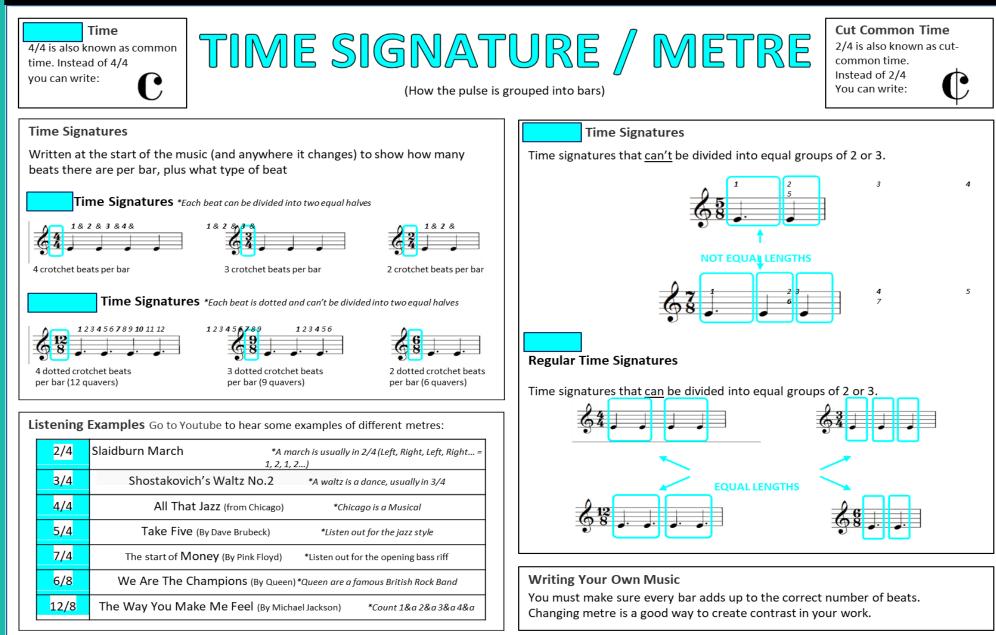
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4	•			note is already worth: 3 beats *2(+1)	Allegro / Vivace	
2			[]		Allegretto	
				1 ½ beats *1 (+ 1/2)	Moderato / Andante	
1		2		34 beat *1/2 (+ 1/4)	Adagio / Lento	
1/2				Pause		Gradually Speed Up
1/4	ð	7		If this symbol is written, stop the pulse of the music & pause on the note.		Gradually Slow Down
Syncopation Playing off (or in-between) the beat / pulse		Triplet Three notes played evenly in the space of two notes:	= 60 *120bmp	60 beats per minute (One every second)		
Playing on one of the beats that you would 'tap your toe' to			= 120	120 beats per minute (Two every second)		
	etween the beats ap your toe' to	· &4 ·	* * * *	Swung Rhythms *A main feature of Written rhythms are played diffe to give a swing feeling.		Rubato *Translates as 'to steal time' Not sticking strictly to the tempo - to add feeling (Romanitc Period!)





Western Classical Music]		Γ	Jazz & Blues	*Swung rhythms	<u>í</u>		
Baroque Period	Classical Period	Romant	c Period		STYLE		*The 12 Bar Blues	*Extended chords: 7 th , 9 th	7	
1600-1750	1750-1810	1810-1910					The 12 bar bides		1	
Bach, Vivaldi, Handel	Mozart, Haydn, Beethoven	Chopin, Schu	Chopin, Schubert, Wagner		Minimalism			*Blue notes – 'bending' some notes		
Ornaments	Balanced, regular phrases	Use of the leitmotif			winimalism			by a semitone		
Terraced Dynamics	Alberti Bass	Music more	expressive		*Started in 20 th Century		*Improvisation - Perform	mers make up music in the performance		
Major & Minor Keys	Wider range of dynamics	Huge range	of dynamics		*Composers - Philip Glass		nero make up music in the performance			
Harpsichord	Pianoforte introduced	Use of chromatic chore			*Based upon Repetition		*Rhythm Section Piano/Guitar	- Drums, Double Bass,		
Small Orchestra	Wider range of mood	Unusual Ke	y Changes		*Uses small motifs that		,	ts - Saxophones, Trumpets, Trombones		
(Mostly Strings)	Orchestra got bigger	Large Orchestra			gradually change		Front Line instruments	s - Saxophones, manipets, monibolies		
Basso Continuo	Elegant/Graceful style	Use of Rubato			*Slow changing harmony		*Walking Bass - The bas	ss plays a steady rhythm & walks up/down		
				the notes of the chord or scale.						
Fusion - Mixing more than one style of music together Pop & Ro			ocł	k Music			*Riff - A repeated pattern. Can help			
				mercial music which appeals to lots of people		make the song memorable.				
For example *Pop - Con				intereal music when appeals to lots of people						
Bhangra - Came to UK in 1980s. Mixing traditional *Rock - Ge			Gen	nerally 'more aggressive' but also includes rock-ballads.			*Examples:			
Indian music & pop music.			ent	nts - (See instruments sheet!)						
Tempo Structure Melody				· · · · · · · · · · · · · · · · · · ·			The M/he limmer llendriv The Dectler			
			Intro		The beginning. Sets the mood & style. Usually just instruments.		The Who Jimmy Hendrix The Beatles	۰ ۱		
Lively and Upbeat	structure Simple. De		Verse	Verse Tells the story. Lyrics change each time but tune stays the same.						
Rhythm	hythm Instruments Technology Chorus		s	The main message of the song. Same words and tune each time.		Pink Floyd The Sex Pistols The Clash				
Inc	Indian instruments B		Bridge	е _	A section that links two other sections.					
Syncopation. (e.g. Dhol, Tabla, Sitar) Drum machines. 4 beats per bar. Synths. Scratching.		Middle				8 bars long.	AC/DC David Bowie Queen			
& Pop Instruments)	Extra bit of music to finish off the song.						

Film Music

- *Genre Action, Adventure, Horror, Romance, War, Sci-fi, Western...
- *Composers John Williams, James Horner, Jerry Goldsmith
- *Think, how do the musical features represent what is happening on-screen? e.g.
- Car Chase: Fast tempo, loud dynamics, sudden changes in melody direction... WWII Film: Military instruments, fanfare, monophonic to represent isolation... Large Theme Park Scene: Big Orchestra, Loud Dynamics, Fast/exciting rhythms... Horror Scene: Dissonant chords and use of repeated pattern to build tension...
- *Leitmotif A short musical idea linked to a specific character / thing

Musical Theatre

- *A theatrical story told through music, singing, acting and dance
- *Types: Jukebox, Film-to-stage, Sung-through (no speaking), Disney...
- *Composers Andrew Lloyd Webber, Leonard Bernstein, Stephen Sondheim...
- *Overture The music played before the musical begins, usually featuring the musical's main themes.
- *Solo Song for one character *Duet Song for two characters
- *Chorus Song for usually the whole 'company' to sing
- *Recitative A song which does not have a memorable tune (more speech-like), often used to fill in the story if the show is all sung.

Year 10 Music: MAD T-SHIRTS complete the missing knowledge

Western Classical Music			7		Γ	Jazz & Blues	*		1 A 18		
						STYLE		*The 12 Bar Blues	*Extend	led chords: 7 th , 9 th	th //8 7
1600-1750	1750-18	10	1810	-1910							
Bach, Vivaldi, Hano	lel Mozart, Haydn, E	Beethoven	Chopin, Schu	bert, Wagner	Ιr	N 41 1 1			*Blue no	otes – 'bending' s	some notes
Ornaments	Balanced, regula	ar phrases	Use of the	eleitmotif		Minimalism			-	by a semit	one
Terraced Dynam	ics Alberti B	ass	Music more	expressive		*Started in 20 th Century		* Perform	— ners make un	music in the per	formance
Major & Minor K	eys Wider range of	dynamics	Huge range	of dynamics		*Composers - Philip Glass			-		Ionnance
Harpsichord	Pianoforte int	roduced	Use of chro	matic chords		*Based upon		*Rhythm Section	- Drur	ns, Double Bass,	
Small Orchestr	a Wider range d	of mood	Unusual Ke	Unusual Key Changes		*Uses small motifs that		Piano/Guitar *Front Line Instruments	- Sayonhone	s Trumpets Tron	nhones
(Mostly Strings) Orchestra go	t bigger	Large O	rchestra		gradually change			-	•	
Basso Continue	Elegant/Grace	eful style	Use of Rubato			*Slow				dy rhythm & walk	ks up/down
						the notes of the chord or scale.					
Fusion - Mixing more than one style of music together Pop & Ro			lock	(Music			*Riff -				
For example				*Pop - Co	omr	nmercial music which appeals to lots of people					
- Came	to UK in 1980s. Mi	king tradit	ional	*Rock - G	Gen	nerally 'more aggressive' but also includes rock-ballads.					
	n music & pop musi	0				ents - (See instruments sheet!)			*Examples:		
Tempo	Structure	Melo	vdv	motrum	ient						
rempo	Verse / Chorus	Quite rep		Intro)	The beginning. Sets the mood & style. Us	sua	lly just instruments.	The Who	Jimmy Hendrix	The Beatles
Lively and Upbeat	structure	Simple. De		Verse	erse Tells the story. Lyrics change each time but tune stays the same.			TI 6 D' I I			
Rhythm	Instruments	Techno	ology	Choru	IS The main message of the song. Same words and tune each time.		Ρίηκ Γιογά	The Sex Pistols	The Clash		
Syncopation.	Indian instruments	Drum ma		Bridge		A section that links two other sections.				David Davia	0
4 beats per bar. (e.g. Dhol, Tabla, Sitar) & Pop Instruments Synths. Scratching.		Middle	A contrasting section of new ideas – usually 8 bars long.			AC/DC	David Bowie	Queen			
Outro			D	Extra bit of music to finish off the song.							

Film Music

- *Genre Action, Adventure, Horror, Romance, War, Sci-fi, Western...
- *Composers John Williams, James Horner, Jerry Goldsmith
- *Think, how do the musical features represent what is happening on-screen? e.g.
- Car Chase: Fast tempo, loud dynamics, sudden changes in melody direction... WWII Film: Military instruments, fanfare, monophonic to represent isolation... Large Theme Park Scene: Big Orchestra, Loud Dynamics, Fast/exciting rhythms... Horror Scene: Dissonant chords and use of repeated pattern to build tension...

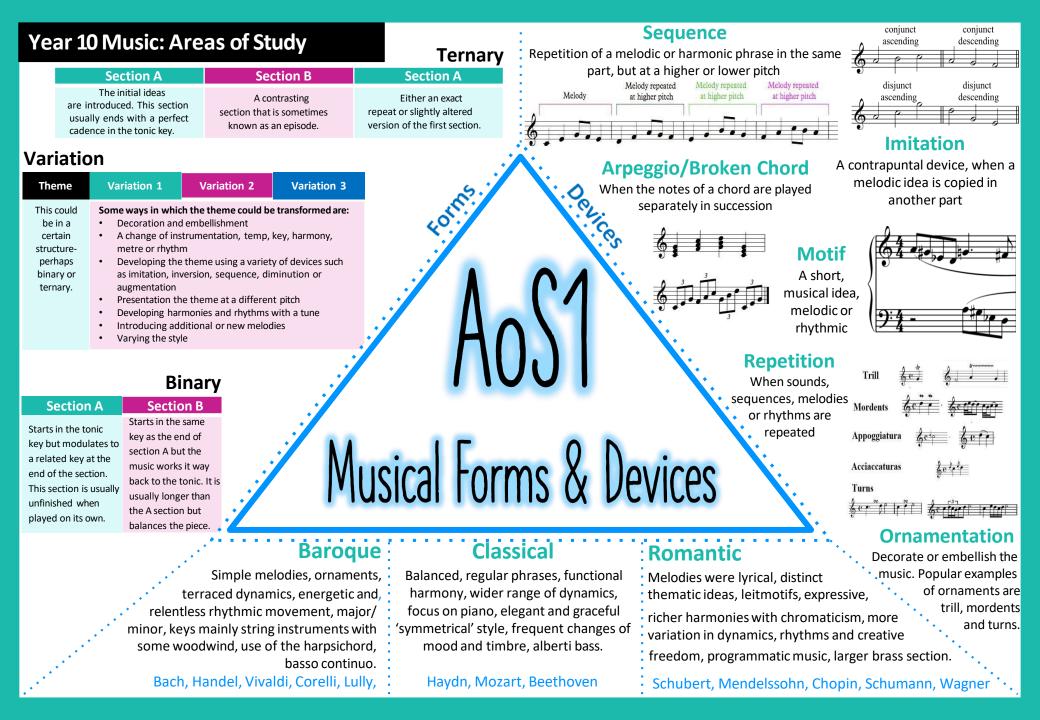
Musical Theatre

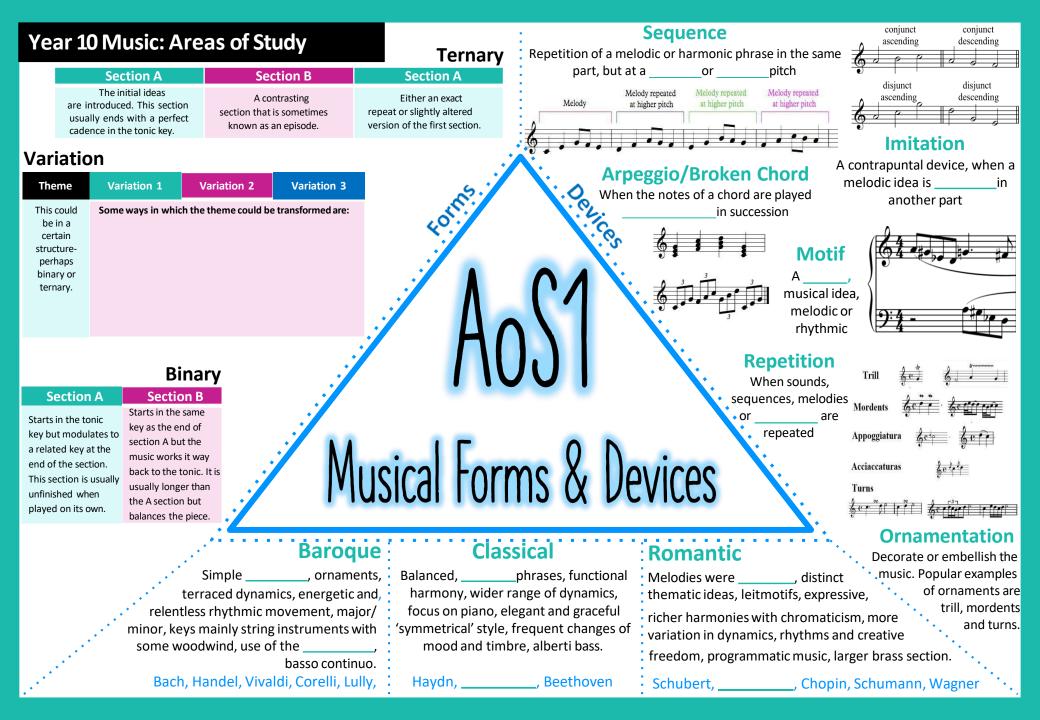
- *A the atrical story told through music, singing, acting and dance
- *Types: Jukebox, Film-to-stage, Sung-through (no speaking), Disney...
- *Composers Andrew Lloyd Webber, Leonard Bernstein, Stephen Sondheim...

*Overture -

- *Solo Song for one character *Duet Song for two characters
- *Chorus Song for usually the whole 'company' to sing
- *Recitative A song which does not have a memorable tune (more speech-like), often used to fill in the story if the show is all sung.

*Leitmotif -





In Jazz & Blues, the drummer keeps a steady beat. The bass Key features in most jazz bands are: the instruments, use of **Jazz & Blues** player lays down a 'groove' and supports the improvisation improvisation, the pentatonic scale, head arrangement, sections. The keyboard player comps and improvises the melodic riffs, blues notes, use of the blues scale, call 12-bar blues Baroque • chords whilst the other instruments Improvise virtuosic and response and jazz virtuoso with solo sections. solos. Basso Continuo Head arrangement Double bass and harpsichord providing harmony Classical Classic Modern String Quartet **Blues band** Jazz band 2 Violina, a viola & There are various cello. 4 movements. instrumenta ensembles that Romantic accompany the String Quartets with a piano. singers onstage. Experimentation with different combinations of instruments to improve tone quality and overall sound.

Mo

Hor

Po





A small group of classical musicians.



Music for Ensemble

Sonority Individual tone colour or tone quality. The tone colour of different combinations of instruments can result in very different effects. It is its relative loudness and 'feel' compared with other sounds.

Texture						
nophonic	Single melodic line or parts together in unison					
mophonic	One melody heard with an accompaniment of chords					
lyphonic	A number of melodies heard at one, like imitation and counterpoint					

Ensemble

A group of performers, usually between 2 and 8. Examples include: basso continuo, string quartet, jazz and blues trios, a rhythm section and vocal ensembles (duets, trios, backing vocals).

Musicals use various vocal ensembles which •are known as the chorus. This features multiple vocal parts like Soprano, Alto, Tenor and Bass.



Large-scale musicals can use a full orchestra of musicians, but smaller shows may only use a small rock band.



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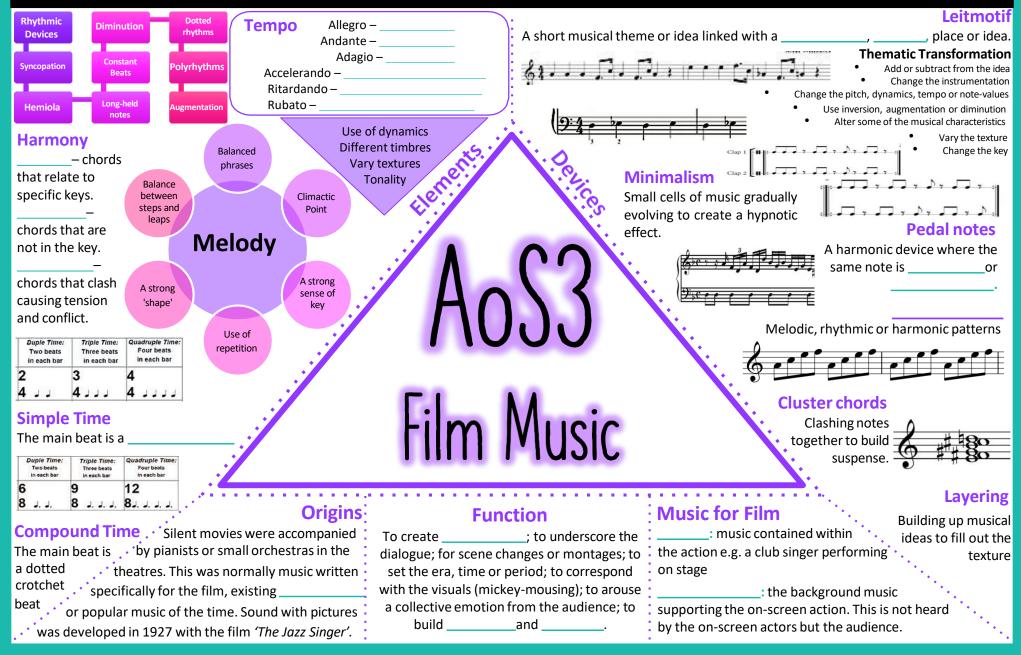


rhythm section and vocal ensembles

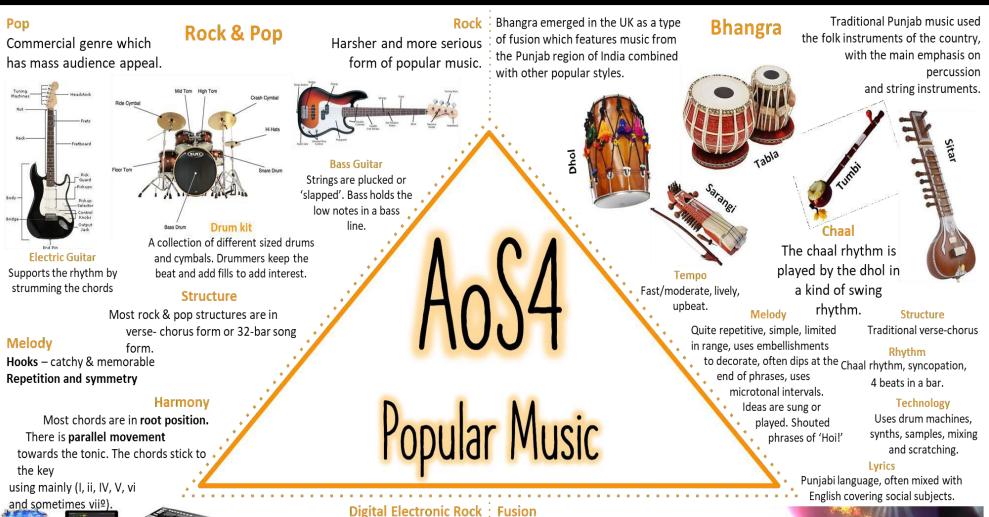
(duets, trios, backing vocals).

Polyphonic

Leitmotif Rhythmic Dotted Tempo Allegro – fast/lively Diminution rhythms **Devices** A short musical theme or idea linked with a character, object, place or idea. Andante – walking pace **Thematic Transformation** Adagio – slowly Constant Syncopation olyrhythms Add or subtract from the idea Accelerando – gradually getting faster Beats Change the instrumentation Ritardando – gradually getting slower Change the pitch, dynamics, tempo or note-values Long-held Rubato - not sticking to time, free Hemiola ugmentatior Use inversion, augmentation or diminution notes Alter some of the musical characteristics Use of dynamics Vary the texture Harmony Different timbres Balanced Change the key Diatonic – chords Vary textures phrases **Minimalism** Clap 2 that relate to Tonality Balance specific keys. Small cells of music gradually between Climactic steps and Point Chromatic – evolving to create a hypnotic leaps **Pedal notes** chords that are effect. Melody not in the key. A harmonic device where the Dissonant same note is sustained or A strong chords that clash repeated. A strong sense of causing tension 'shape' key **Ostinato** and conflict. Melodic, rhythmic or harmonic patterns Use of Duple Time: Triple Time: Quadruple Time repetition Two beats Three beats Four beats in each bar in each bar in each bar 2 3 4 . 4.1 Film Music **Cluster chords Simple Time Clashing notes** The main beat is a crochet beat together to build suspense. Duple Time: Triple Time Duadruple Time Two beats Three heats Four beats in each ba in each bar in each bar 6 12 Layering 8 8 J. J. J. 8J. J. J. **Origins**¹ ¹ Music for Film **Function** Building up musical Compound Time . · Silent movies were accompanied Diegetic: music contained within To create atmosphere; to underscore the ideas to fill out the The main beat is ... by pianists or small orchestras in the the action e.g. a club singer performing dialogue; for scene changes or montages; to texture a dotted • theatres. This was normally music written set the era, time or period; to correspond on stage crotchet with the visuals (mickey-mousing); to arouse specifically for the film, existing classical music Non-Diegetic: the background music beat a collective emotion from the audience; to supporting the on-screen action. This is not heard or popular music of the time. Sound with pictures build tension and suspense. by the on-screen actors but the audience. • was developed in 1927 with the film 'The Jazz Singer'.



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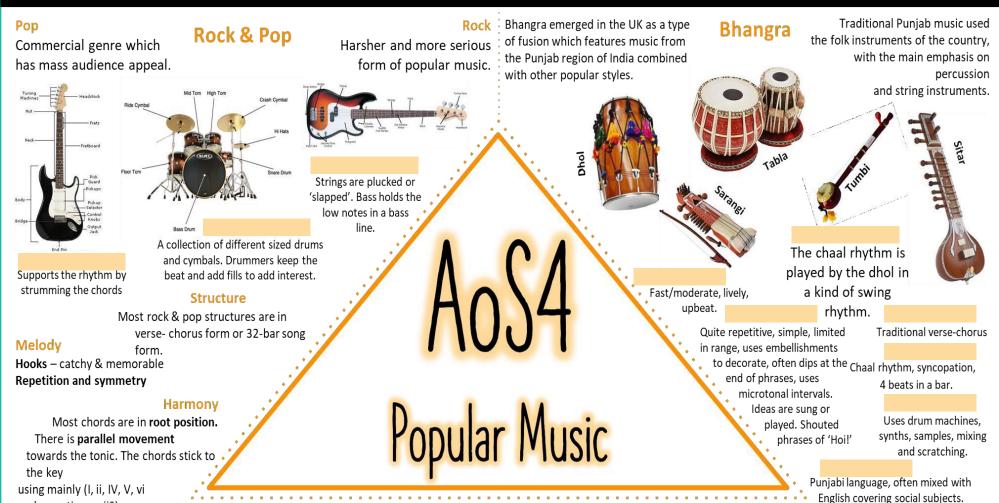
digital instruments: synths, moogs and drum machines.

These genres are: House, Techno, Trance, Dubstep, Indietronica. The reproduction of acoustic sounds can also be edited: remixing, panning, delay, reverb, phasing and looping.

A genre of rock music that relies on electronic and Fusion is what happens when two or more different musical styles or genres are blended. Ray Charles combined musical elements of gospel and jazzinfluenced blues. The Pogues combines Celtic music with punk by playing with traditional Irish instruments. Afro Celt Sound System combine African, Celtic and Dance Music through instrumentation and elements.



and sometimes vii^o).



Digital Electronic Rock : Fusion

A genre of rock music that relies on electronic and Fusion is what happens when two or more different digital instruments: synths, moogs and drum machines. These genres are: House, Techno, Trance, Dubstep, Indietronica. The reproduction of acoustic sounds can also be edited: remixing, panning, delay, reverb, phasing and looping.

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1738-39

The Baroque period

- Complex melodic lines with ornamentation
- Terraced dynamics
- Polyphonic texture
- Harpsichord and strings
- Basso Continuo

Instrumentation

Instrumentation: (Transverse) Flute String Orchestra Harpsichord (Basso Continuo).

Section A begins in **B minor** and ends in **F# minor** Section B: the opposite, beginning in **F# minor** and ending in **B minor**.

Tonality

Dynamics

Mostly **forte** Use of **terraced dynamics**



Melody

The movement is based on two short musical *ideas* (X and Y). The flute part has a two-octave pitch *range*. The movement includes *ornaments* and *compositional devices* typical of the Baroque era:

> *Trills*: Bars 8¹, 10¹, 15², 27², 30¹ and 32¹ *Appoggiaturas*: Bars 33¹ and 40¹ *Sequences*: 6² – 10¹ and bars 28² – 32¹.



Rhythm

Simple ostinato rhythms, forming the basis of the two short musical ideas (X and Y) Consist almost totally of *quavers* and *semi- quavers*.

The time signature is 2/4 throughout



Temp

O Allegro

Texture

Homophonic (*melody and accompaniment*). Flute and the cello provide the main musical material 1st violin participates occasionally 2nd violin and viola provide harmony with less busy musical lines.

Structure

1111111111

Binary form (AB), with each section repeated once (AABB)

Section A	Bars 0 ² - 16 ¹	16 bars
Section B	Bars 16 ² - 40 ¹	24 bars

Harmony

Diatonic throughout. Section A modulates from the tonic to the dominant minor and Section B does the opposite. Imperfect and perfect cadences are clearly presented throughout. Chords frequently occur in inversion with occasional use of V7 in third inversion. A Neapolitan sixth chord is used in bar 35. Suspensions also occur in bars 8¹, 10¹ and 32¹.

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Badinerie

1

Rhythm

Simple ostinato rhythms, forming the basis of the two short musical ideas (X and Y) Consist almost totally of *quavers* and *semi- quavers*.

The time signature is



Temp

Allegro

Texture

Homophonic (*melody and accompaniment*). Flute and the cello provide the main musical material 1st violin participates occasionally 2nd violin and viola provide harmony with less busy musical lines.

Structure

form (AB), with each section repeated once (AABB)

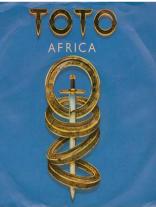
Section A	
Section B	

Bars 0²- 16¹ Bars 16²- 40¹ 16 bars 24 bars

Harmony

throughout. Section A *modulates* from the *tonic* to the *dominant* minor and Section B does the opposite. *Imperfect* and *perfect cadences* are clearly presented throughout. Chords frequently occur in *inversion* with occasional use of *V7* in third inversion. A *sixth chord* is used in bar 35. *Suspensions* also occur in bars 8¹, 10¹ and 32¹.

1981 Toto IV David Paich & Jess Porcaro



Instrumentation

Rock Band: drum kit (keeps the groove) with additional percussion, lead guitar (plays solos and chords), bass guitar (holds the bassline), synthesizers (emphasizes the chords and leads the solo instrumental section), lead singer (sings the lyrics and melody). And male backing vocals (harmonies).

Harmony The harmony is diatonic, the chords used are based on the key of the piece. Power chords and inversions.

Atrica

Texture

Homophonic: melody and accompaniment

Melody

Mostly conjunct (moving in step) and includes occasional use of the pentatonic scale. The pitch range of the vocal line is just less than two octaves on the printed score, but it is wider on the recording with the vocal improvisations towards the end of the song.

Rhythm

Ostinato rhythms, consisting almost

totally of quavers, with constant use

of syncopation. The time signature is

2/2 (split common time) throughout.

Tempo

Moderately fast

Dynamics

Mainly mezzo forte, choruses are

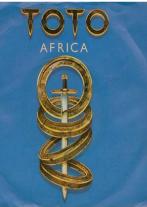


						forte
Intro	Verse 1/2	Chorus 1/2	Link	Instrumental	Chorus 3	Outro
Bars 1-4	Bars 5-39 Bars 14-39	Bars 40-57	58-65	66-82	Bars 40-92	Bars 93-96
B major	B major	A major	B major	B major	A major	B major
Syncopated chordal riff A running into ostinato riff B based on E pentatonic scale.	Mostly syllabic, syncopated rhythms that are conjunct. Final chord is sustained for drum fill.	Vocal texture builds on each line, mostly syllabic with melisma on the final melody.	Same as intro but only repeated once instead of three times.	Chords based on the verse but with instrumental melody based on riff B.	New e. guitar riff, lyrics are repeated with solo vocal improvisation	Same as intro, texture gradually decreases as the music repeats to fade out.

.....

1981 Toto IV

& Jess Porcaro



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Tempo

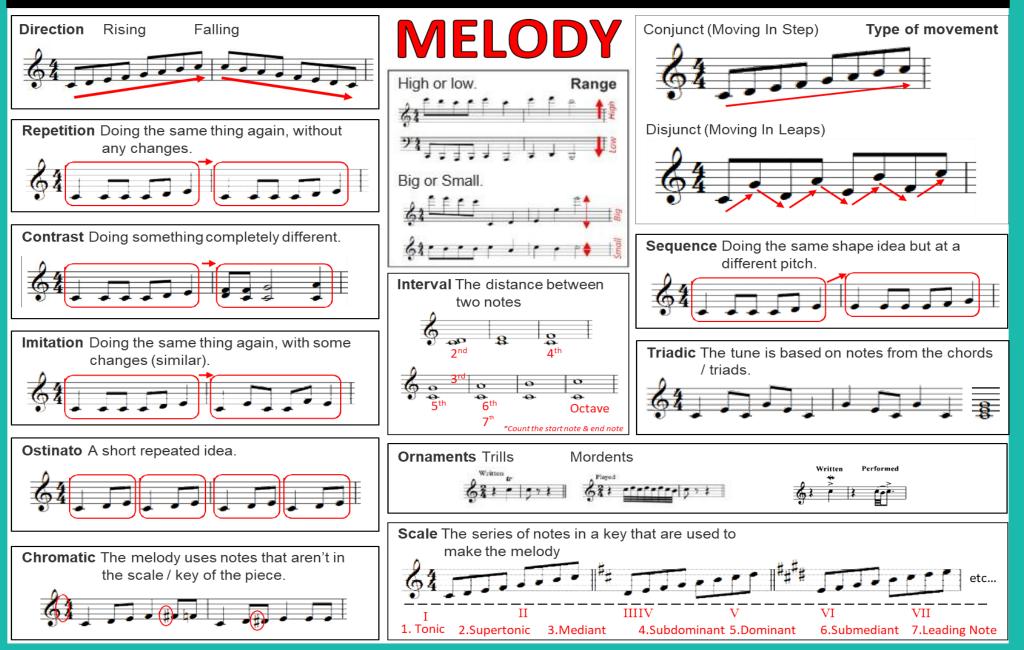
Moderately fast

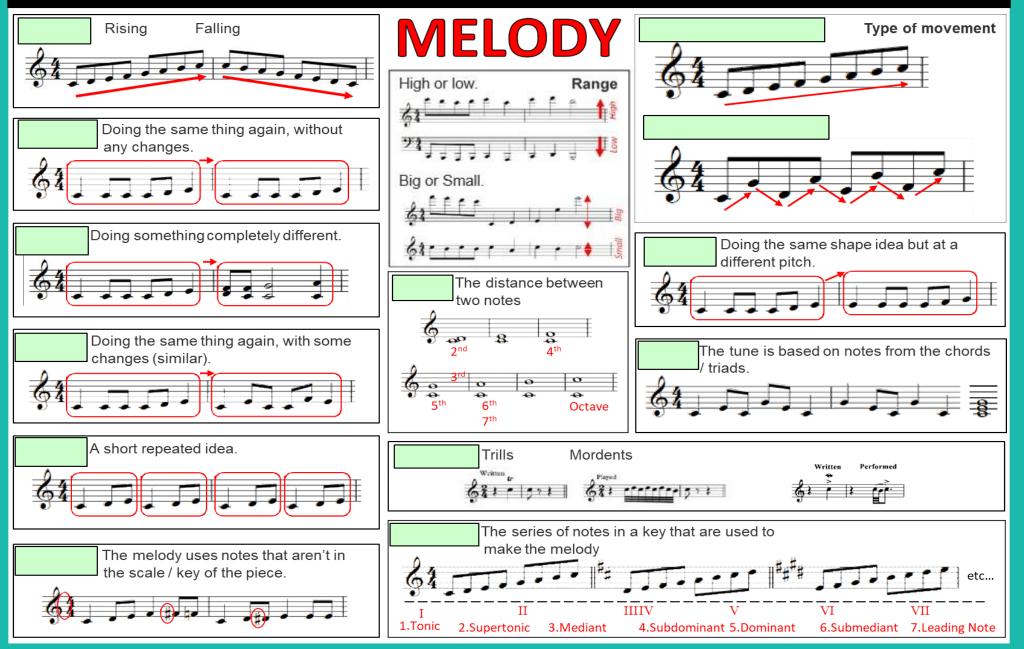
Dynamics

Mainly forte, choruses are



						forte
Intro	Verse 1/2	Chorus 1/2	Link	Instrumental	Chorus 3	Outro
Bars 1-4	Bars 5-39 Bars 14-39	Bars 40-57	58-65	66-82	Bars 40-92	Bars 93-96
Syncopated	Mostly	Vocal texture	Same as intro	Chords based	New e. guitar	Same as
chordal riff A	syllabic,	builds on	but only	on the verse	riff, lyrics are	intro, texture
running into	syncopated	each line,	repeated	but with	repeated with	gradually
ostinato riff B	rhythms that	mostly	once instead	instrumental	solo vocal	decreases as
based on E	are conjunct.	syllabic with	of three	melody based	improvisation	the music
pentatonic	Final chord is	melisma on	times.	on riff B.		repeats to
scale.	sustained for	the final				fade out.
	drum fill.	melody.				





Not Dynamics...

Articulation is the way the performer plays / sings the note, not how loud they do it. That would be Dynamics instead.

ARTICULATION

More Than One...

You can write more than one type of articulation for the same note. For example:



(How the notes are played)

Staccato

Staccato means short and detached /seperated. *You will likely hear a gap between each note.



Shown by writing a dot just above/below the head of the note.

Legato

To play the music smoothly, without breaks between notes.

Slurred

Playing the notes in a legato style, without breaks between notes.



Shown with a slur on the score.

How? Some examples:

String Instruments - Play the notes without changing the direction of the bow.



Brass & Wind Instruments - Only tongue the first note, not the others.

Accented

Give extra emphasis or force to the marked notes.





Shown by writing an accent above/below the head of the note.

Glissando

*You can glissando upwards or downwards

A slide between two notes.

Marked with a glissando on the score.



Some Associated Markings On Vocal Music...

Phrase markings

Slurs drawn onto the score to show – singers what to sing in one breath.



Syllabic

Where the music is written with one note per syllable.

Melismatic

Where the music is written with more than one note per syllable. *A slur is used to show the notes on one syllable



Articulation is the way the performer plays / sings the note, not how loud they do it. That would be Dynamics instead.

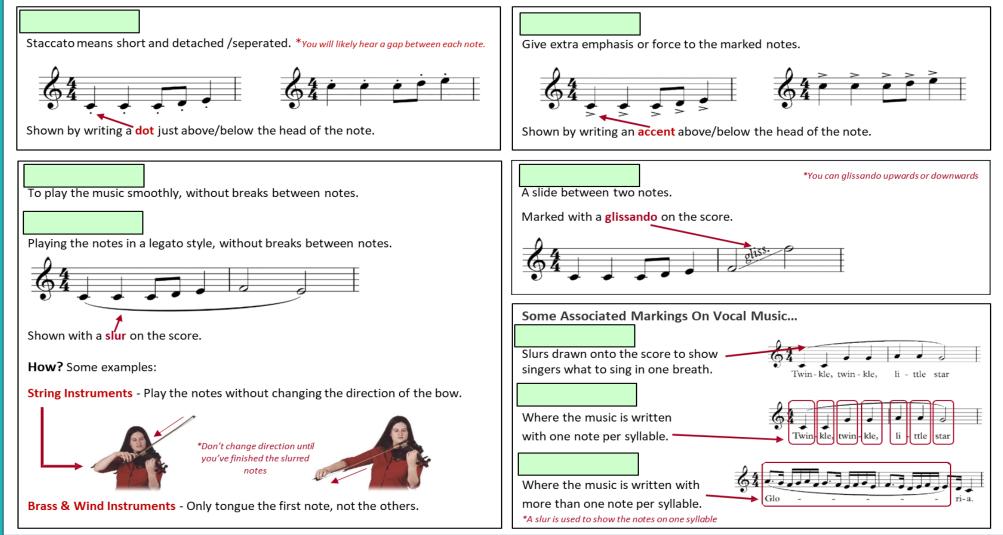
ARTICULATION

(How the notes are played)

More Than One...

You can write more than one type of articulation for the same note. For example:





On The Score

the two staves:

Describing What You Hear

Comment on any changes - don't sum up the whole example with one word (unless it doesn't change!)

The music starts... then... the music ends...

Dynamics are marked underneath the music, to show the instrument how loudly it should play:

If it is a piano, the dynamics usually go in-between

For singers, dynamics usually go above the stave, so that they don't get mixed up with the lyrics:

DYNAMICS

(The volume of the music)

Writing Dynamics

Dynamics can create contrast in music.

Dynamics can add expression to the music.

Dynamics can allow the listener to hear the most important lines in the music.

Marking	Italian Term	Meaning	
qq	Pianissimo	Very Quiet	Shh
Р	Piano	Quiet	
mp	Mezzo Piano	Moderately Quiet]
mf	Mezzo Forte	Moderately Loud	
f	Forte	Loud	
ff	Fortissimo	Very Loud	↓ 111
	Crescendo	Getting Louder 🛛 🔶	radually
	Diminuendo	Getting Quieter 🛶	Change gradually
sfz	Szorzando	Sudden Accent	

Baroque Period:

Twin - kle, Twin - kle,

Dynamics were rarely used (no crescendos and diminuendos). Use of <u>Terraced Dynamics</u>.

Classical Period: Some dynamics, to add contrast.

Romantic Period: Lots of crescendos & diminuendos and a large range of dynamics to add expression.

li - ttle star

Writing Your Own Dynamics

If using crescendos and diminuendos, make sure you say how loud/quiet you want the music to get. This will clearly show what you want.



Describing What You Hear

Comment on any changes - don't sum up the whole example with one word (unless it doesn't change!)

The music starts... then... the music ends...



(The volume of the music)

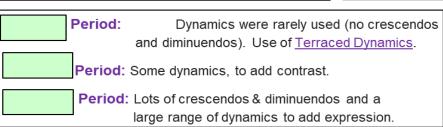
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Marking	Italian Term	Meaning	ch h
pp			Shh T
Р			ł
mp			ł
mf			ł
f			ł
ff			↓ 111
	Crescendo	Getting Louder	radually
	Diminuendo	Getting Quieter	Change gradually
	Szorzando	Sudden Accent	



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On The Score Dynamics are marked underneath the music, to show the instrument how loudly it should play:

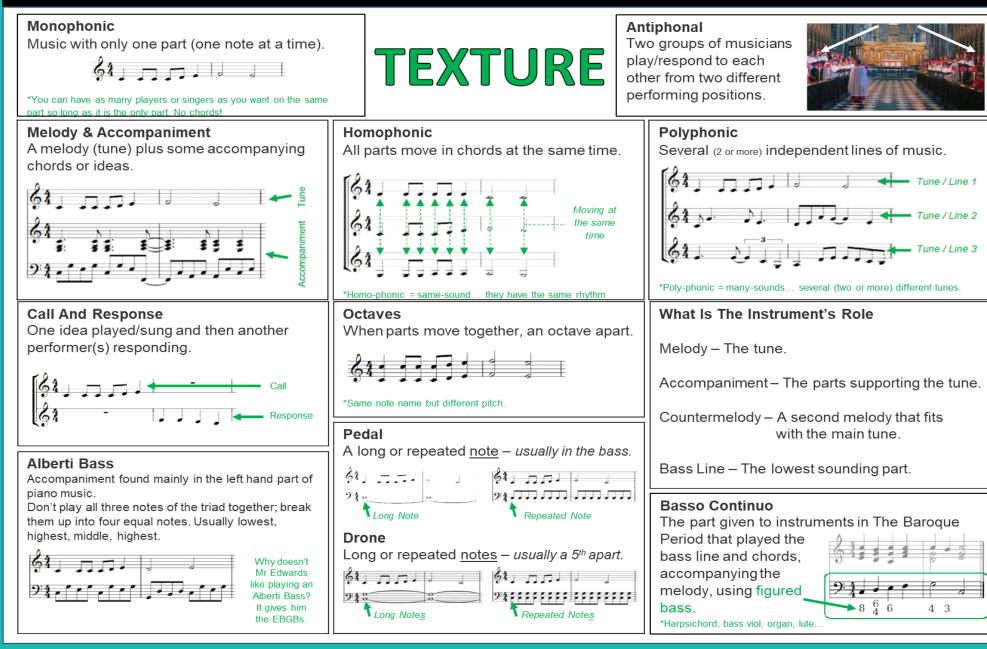


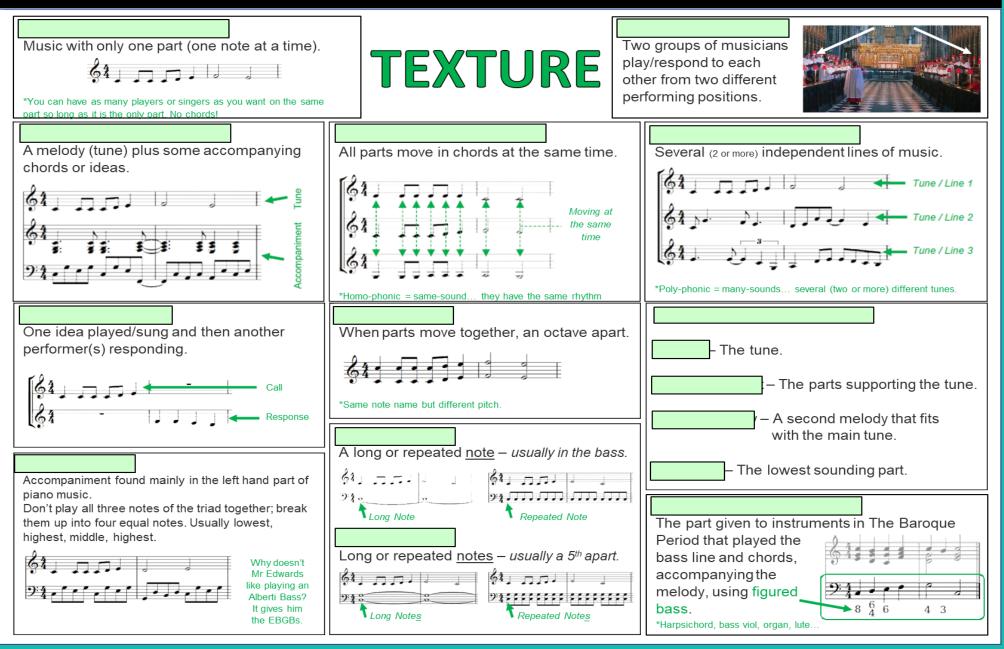
If it is a piano, the dynamics usually go in-between the two staves:

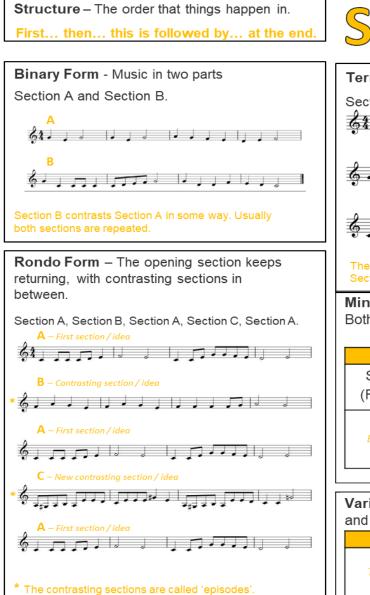


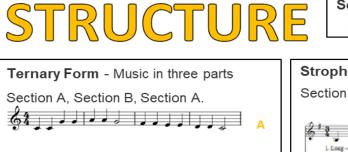
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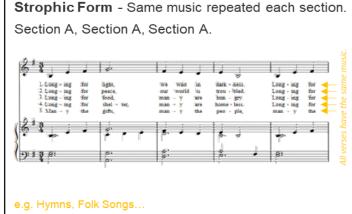


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Song Form

Intro Verse Chorus Middle 8 Bridge Outro

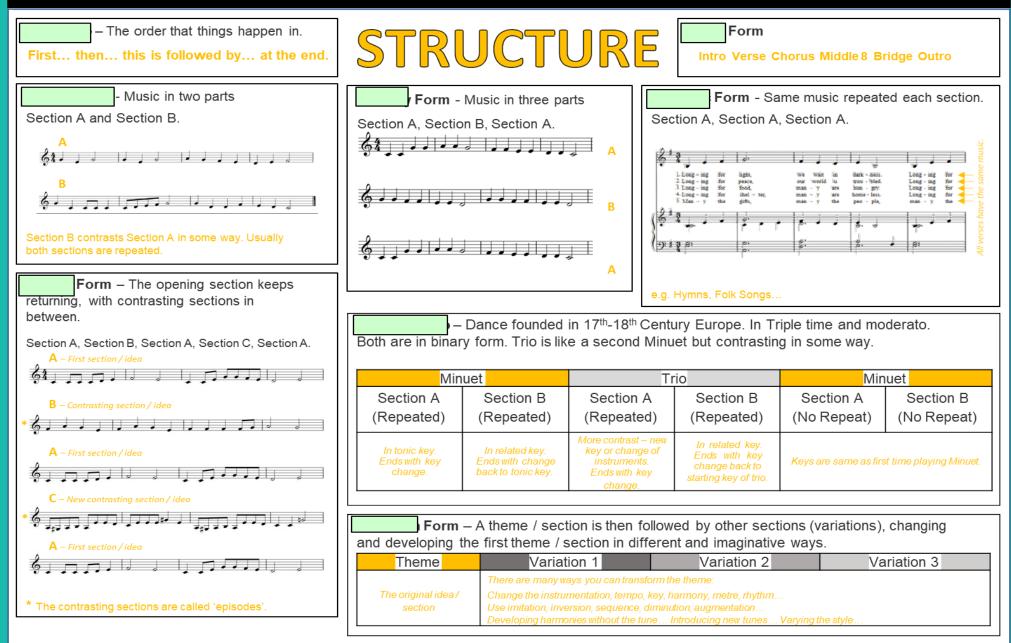


Minuet & Trio – Dance founded in 17th-18th Century Europe. In Triple time and moderato. Both are in binary form. Trio is like a second Minuet but contrasting in some way.

Min	uet	Tr	io	Minuet		
Section A (Repeated)	Section B (Repeated)	Section A (Repeated)	Section B (Repeated)	Section A (No Repeat)	Section B (No Repeat)	
In tonic key. Ends with key change.	In related key. Ends with change back to tonic key.	More contrast – new key or change of instruments. Ends with key change.	In related key. Ends with key change back to starting key of trio.	Keys are same as first time playing M		

Variation Form – A theme / section is then followed by other sections (variations), changing and developing the first theme / section in different and imaginative ways.

Theme	Variation 1	Variation 2	Variation 3
	There are many ways you can transfo Change the instrumentation, tempo, k Use imitation, inversion, sequence, di Developing harmonies without the tun	ey, harmony, metre, rhythm	he style…



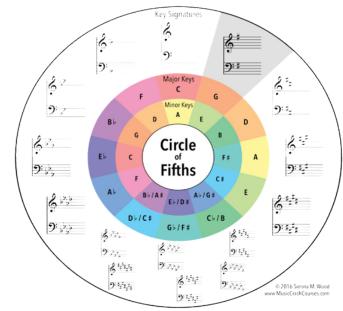
Key Signature

The sharps or flats at the start of a piece of music, showing what key the music is in.

HARMONY & TONALITY

(The chords and keys used in the music)

Major and Minor Key Signatures



*When you write music in a minor key you also need to raise the 7th note (leading note) up one small step - e.g. A minor uses G#s, not Gs.

Identifying The Tonality...

- Tonal In a major or Minor Key
- Atonal There is no sense of key
- Modal Uses 'old-fashioned' scales called modes
- Pentatonic The music only uses 5 notes

Chords

Triad - A chord with three notes (See below)

Power Chord – Only playing the Root and Fifth of a triad (used in Rock music)

Dissonance - Clashing notes played together

Consonance - Notes that fit / sound nice together

Primary Chords - The three most commonly used chords used in music: I, IV, V

Secondary Chords - The other chords: II, III, VI, VII

Chord Sequence - The order the chords in a piece of music follow (containing cadences at the ends of phrases)

Modulation

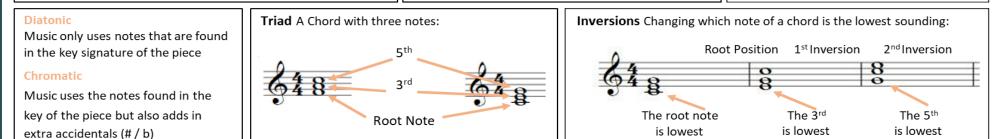
Musical word for key change. Most common changes: to Dominant or relative Major/Minor.

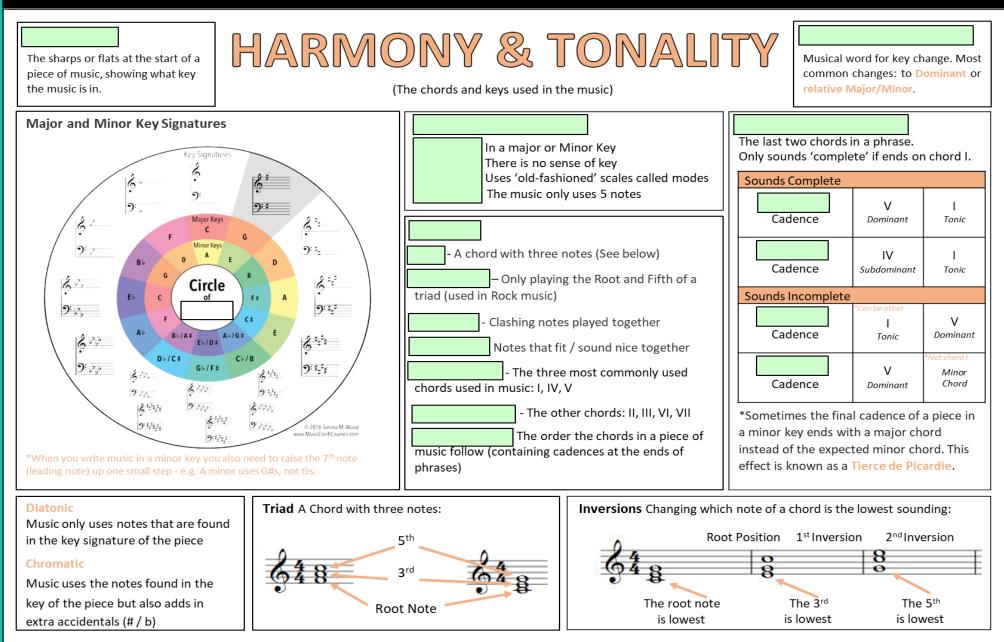
Cadences

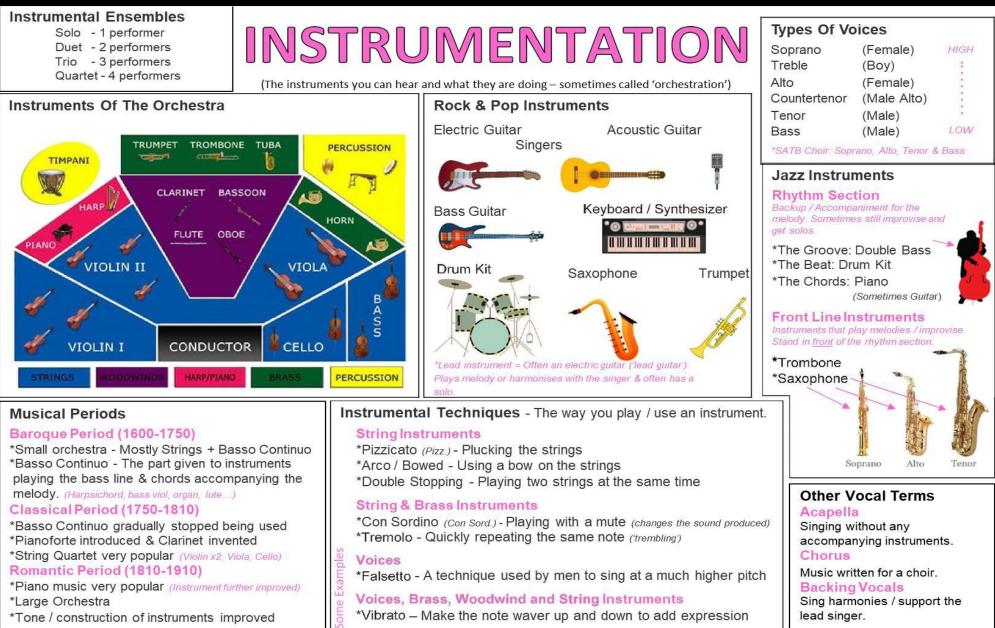
The last two chords in a phrase. Only sounds 'complete' if ends on chord I.

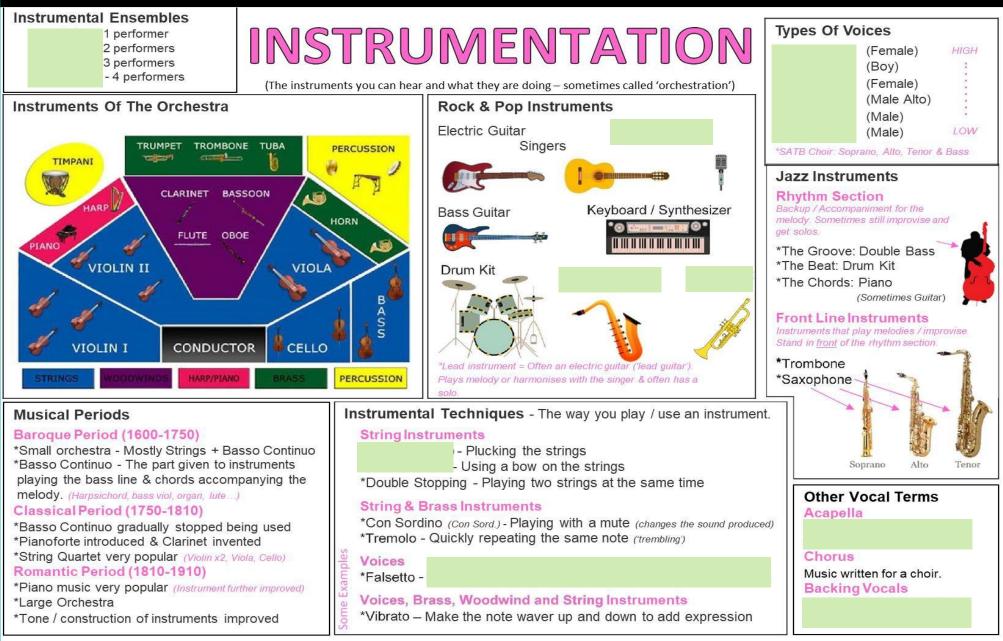
Sounds Complete	Sounds Complete					
Perfect Cadence	V Dominant	 Tonic				
Plagal Cadence	IV Subdominant	 Tonic				
Sounds Incomplete						
Imperfect Cadence	*Can be other Tonic	V Dominant				
Interrupted Cadence	V Dominant	*Not chord I Minor Chord				
*Sometimes the final cadence of a piece in						

*Sometimes the final cadence of a piece in a minor key ends with a major chord instead of the expected minor chord. This effect is known as a Tierce de Picardie.









Reading Rhythms

You need to be able to read all the different note lengths if you want to pass GCSE music. If you keep forgetting, look over them again!

RHYTHM & TEMPO

(The Patterns Of Note Lengths & Silences)

(The Speed Of The Music)

Working Out The Tempo

Tap your toe to the pulse of the music and think, 'how fast am I tapping'.

*If you tap your whole foot you might put off other pupils.

Durations				Dotted Notes	Te	empo Markings	
Beats	Note	Rest	Name	If a dot is added to a note (or rest), add on half of what the		Marking	Meaning
4	•		Semibreve	note is already worth:		Allegro / Vivace	Fast or Lively
2			Minim	3 beats *2(+1)		Allegretto	Quite Fast (Not as fast as Allegro)
	0			1 ½ beats *1 (+ 1/2)		Moderato / Andante	Moderate / A Walking Pace
1		ł	Crotchet	34 beat *1/2 (+ 1/4)		Adagio / Lento	Slowly
1/2			Quaver	Pause A 🙃			
1/4	ð	7	Semiquaver	If this symbol is written, stop the pulse of the music & pause on the note.		Accelerando Ritardando / Rallentando rit. rall.	Gradually Speed Up Gradually Slow Down
Syncopation Playing off (or in-between) the beat / pulse On The Beat Playing on one of the beats that			Triplet Three notes played evenly in the space of two notes:		= 60 *60bmp = 60 *120bmp = 120	60 beats per minute (One every second) 120 beats per minute (Two every second)	
you would 'tap your toe' to Off-beat Playing in-between the beats you would 'tap your toe' to				Swung Rhythms *A main feature of Written rhythms are played differ to give a swing feeling.		tly $e.g$ $=$ 3	Rubato *Translates as 'to steal time' Not sticking strictly to the tempo - to add feeling (Romanitc Period!)

Reading Rhythms

You need to be able to read all the different note lengths if you want to pass GCSE music. If you keep forgetting, look over them again!

RHYTHM & TEMPO

(The Patterns Of Note Lengths & Silences)

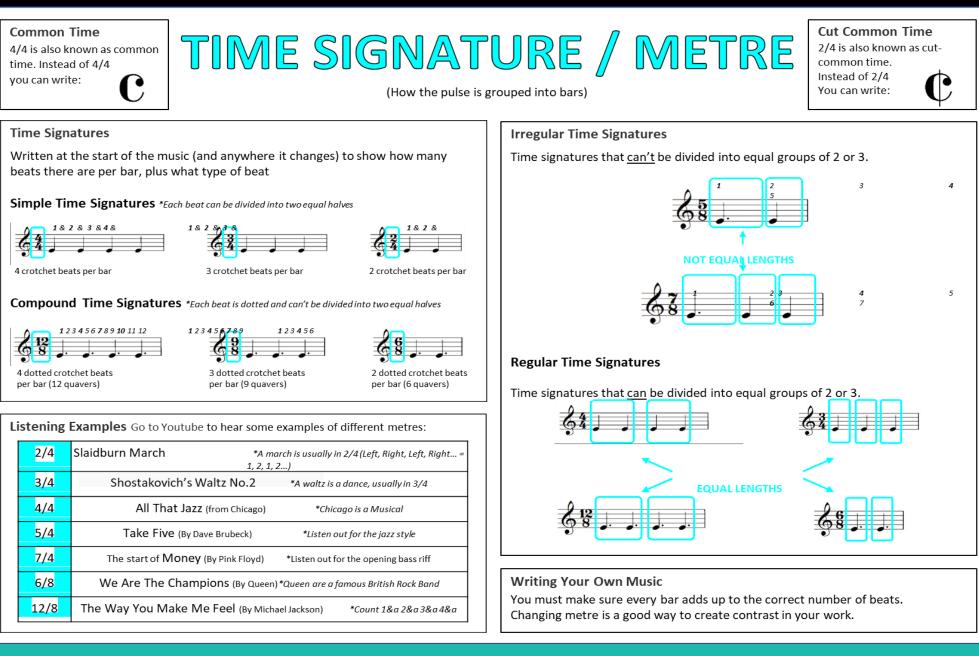
(The Speed Of The Music)

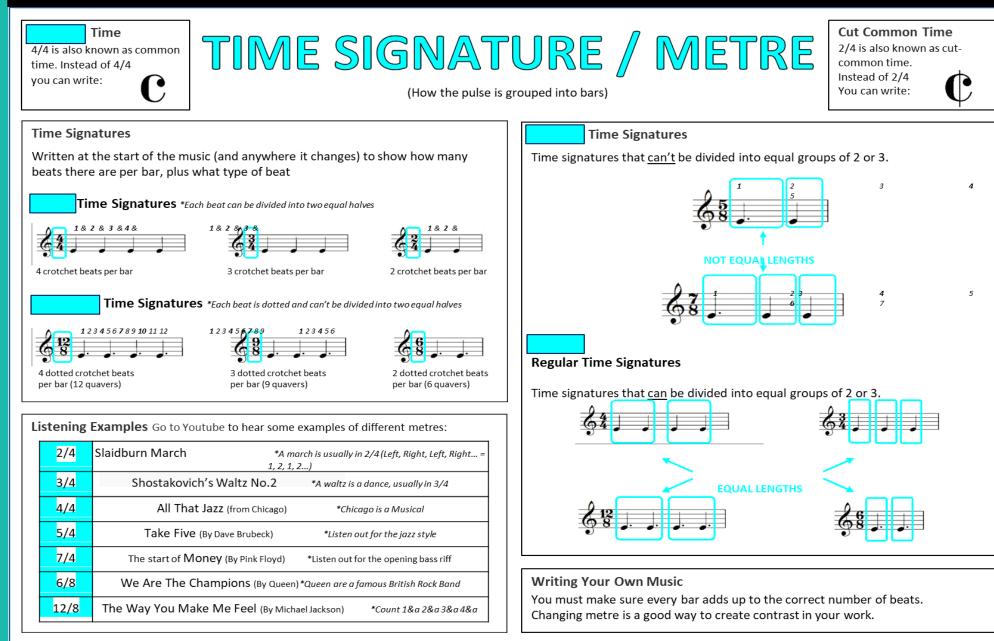
Working Out The Tempo

Tap your toe to the pulse of the music and think, 'how fast am I tapping'.

*If you tap your whole foot you might put off other pupils.

Durations				Dotted Notes	T	Tempo Markings	
Beats	Note	Rest	Name	If a dot is added to a note (or rest), add on half of what the note is already worth:		Marking Allegro / Vivace	Meaning
4	•			3 beats *2(+1)		Allegretto	
2	0			1 ½ beats *1 (+ 1/2)		Moderato / Andante	
1		ł		34 beat *1/2 (+ 1/4)		Adagio / Lento	
1/2		- 4		Pause A O	5		Candually Canad Lin
1/4	_₿	7		If this symbol is written, stop the pulse of the music & pause on the note.			Gradually Speed Up Gradually Slow Down
Syncopation Playing off (or in-between) the beat / pulse On The Beat Playing on one of the beats that you would 'tap your toe' to				Triplet Three notes played evenly in the space of two notes:	69 []-	= 60 *60bmp = 60 *120bmp = 120	60 beats per minute (One every second) 120 beats per minute (Two every second)
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Western Classical Music							Γ	Jazz & Blues	*Swung	rhythms		
Baroque Peri	od Classical P	Classical Period		Romantic Period		SIYLE		*The 12 Bar Blues	*Extended chords: 7th, 9th			
1600-1750		1750-1810		1810-1910				The 12 but blues				
Bach, Vivaldi, Har	idel Mozart, Haydn,	Mozart, Haydn, Beethoven		Chopin, Schubert, Wagner		Minimalism			*Blue no	otes – 'bending' s	some notes	
Ornaments	Balanced, regul	anced, regular phrases Use of th		Use of the leitmotif		winimalism			by a semitone		one	
Terraced Dynam	nics Alberti E	Bass	Music more	expressive		*Started in 20 th Century			ers make up music in the performance		formance	
Major & Minor	Keys Wider range of	dynamics	Huge range	of dynamics		*Composers - Philip Glass		-				
Harpsichord	Pianoforte int	troduced	Use of chroi	matic chords		*Based upon Repetition		*Rhythm Section Piano/Guitar	- Drun	ns, Double Bass,		
Small Orchest		range of mood Unusual Ke		ey Changes		*Uses small motifs that	, ,	- Saxophones, Trumpets, Trombones				
(Mostly String	s) Orchestra go	Orchestra got bigger		Large Orchestra		gradually change						
Basso Continu	Elegant/Grace	Elegant/Graceful style		Use of Rubato		*Slow changing harmony		*Walking Bass - The bass plays a steady rhythm & walks up/down				
								the notes of the chord or scale.				
Fusion - Mixing more than one style of music together Pop & Roc					ос	k Music			*Riff - A rep	eated pattern. Ca	an help	
For example			*Pop - Co	*Pop - Commercial music which appeals to lots of people make the song memorable.					-			
Bhangra - Came to UK in 1980s. Mixing traditional *Rock - G			Ser	nerally 'more aggressive' but also includes rock-ballads.								
Indian music & non music					ts - (See instruments sheet!)			*Examples:				
Tempo Structure Melody				, ,			The Who	Jimmy Hendrix	The Postler			
Verse / Chorus Quite repetitive.		Intro	Intro The beginning. Sets the mood & style. Usually just instruments.			The who		The Deatles				
Lively and Upbeat	structure			Verse	•	Tells the story. Lyrics change each time but tune stays the same.			T I O D ' I I			
Rhythm	Instruments	Instruments Technology		Choru	Chorus The main message of the song. Same words and tune each time.		Pink Floyd	The Sex Pistols	The Clash			
Indian instruments		Bridge		Э	A section that links two other sections.							
Syncopation. 4 beats per bar.	(e.g. Dhol, Tabla, Sitar)	Synths. Sc		Middle	8	A contrasting section of new ideas – usua	ally	8 bars long.	AC/DC	David Bowie	Queen	
	& Pop Instruments			Outro)	Extra bit of music to finish off the song.						

Film Music

- *Genre Action, Adventure, Horror, Romance, War, Sci-fi, Western...
- *Composers John Williams, James Horner, Jerry Goldsmith
- *Think, how do the musical features represent what is happening on-screen? e.g.
- Car Chase: Fast tempo, loud dynamics, sudden changes in melody direction... WWII Film: Military instruments, fanfare, monophonic to represent isolation... Large Theme Park Scene: Big Orchestra, Loud Dynamics, Fast/exciting rhythms... Horror Scene: Dissonant chords and use of repeated pattern to build tension...
- *Leitmotif A short musical idea linked to a specific character / thing

Musical Theatre

- *A theatrical story told through music, singing, acting and dance
- *Types: Jukebox, Film-to-stage, Sung-through (no speaking), Disney...
- *Composers Andrew Lloyd Webber, Leonard Bernstein, Stephen Sondheim...
- *Overture The music played before the musical begins, usually featuring the musical's main themes.
- *Solo Song for one character *Duet Song for two characters
- *Chorus Song for usually the whole 'company' to sing
- *Recitative A song which does not have a memorable tune (more speech-like), often used to fill in the story if the show is all sung.

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						STYLE		*The 12 Bar Blues	*Extend	ed chords: 7 th , 9 th	th	
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Harpsichord	Pianoforte intr	roduced	Use of chro	matic chords		*Based upon		*Rhythm Section	- Drur	ns, Double Bass,		
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*Leitmotif -

Year 10 Music Technology:

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Term	Definition								
Audio Interface	 A device capable of converting audio signal from a microphone or guitar/ synth into a digital signal so it can enter a computer. Audio interfaces usually connect to a computer via a USB cable 								
Bouncing	Exporting a track to a format like an mp3 or wav file								
Channel	Refers to one track of audio on a computer, part of the mixer or mixing desk								
Chorus	 The chorus effect is an audio modulation effect that splits the original signal in the audio circuit into multiple signals, resulting in a chorus delayed signal that comes right after and alters the dry signal's pitch. It thickens the tone and creates an epic feeling. 								
Chorus	 Although it is best-used washing sounds and making supporting layers of your mix ambient, the chorus effect can have many purposes. One of the most obvious examples is how it can make your guitar feel like a "chorus" of guitars. 								
Clipping	Another word for 'distorting' or 'peaking'								
Compression	 Compression, along with reverb, is probably one of the most used effects in a DAW. Simply put, compression makes the loudest bits quieter, and the quietest bits louder (it 'compresses' the extremes). 								
-	When done correctly, this usually produces a more pleasant listening experience								
DAW	• DAW is an acronym that means 'digital audio workstation'. It is sometimes spelt out when spoken (dee, ay, double you), or pronounced like 'door' (which sounds silly and can be confusing, especially if you are explaining something and you are standing by an actual door).								
DAW	 It can refer to any software used for sequencing and creating music; whether recorded or synthesised. GarageBand, Logic, Soundtrap and Cubase are examples of popular DAWs 								
Delay	 The delay audio effect is a made-by-man audio processing technique that stores a copy of the original signal in a storage medium and plays it back when defined by the producer. The most commonly used one is slapback delay, a type of delay which plays back the reflection right after the original input. The delay audio effect can be used to push an element back in the mix or to give it a wider stereo image. 								
	• This time-based audio effect makes productions more interesting by adding rhythmic variety and adding more depth to the mix.								
Distortion	 In theory, the distortion effect is any type of alteration in the audio waveform. In music, the most common type of distortion is produced by adding a lot of gain to your audio. By doing so you create a fuzzy or gritty feeling to your electrical instrument. 								
Effects	• Many DAW packages have a number of built-in effects, including reverb, echo, delay. These and others can be used creatively in composition.								
	• For learners composing using electronic or traditional instruments, these effects could be created with devices such as loop stations.								

Year 10 Music Technology: Term Definition

What is audio interface?	
Define bouncing	
What is a channel?	
Define chorus	
What is clipping?	
What is compression?	
What is DAW?	
Define delay	
Explain distortion	
What are effects?	

Year 10 Music Technology:



Term	Definition
Envelope (ADSR)	 In music technology, envelope describes the 'shape' of a sound. For example, hitting a piano key will create an immediate, loud 'start' of the sound (attack), followed by a reduction in volume (decay). This quieter sound will continue for a time (sustain), before fading to nothing (release). The acronym ADSR is used to describe these four stages in a sound's envelope. As well as describing sounds, playing with envelope parameters is a vital part of synthesised sound
EQ	 EQ, or equalisation, is a versatile tool that is used to make your music sound better (in a nutshell). With EQ, you can boost (turn up) or cut (turn down) various frequencies in a track or project.
Equalization	 Equalization is a producing technique that controls volume in the audio frequency spectrum. We can equalize or completely filter (volume 0) by dropping/raising the volume of certain frequencies or even a frequency range. Equalization is key to having a good mix, it creates space for instruments to breathe and be heard without interference from other instruments. It enhances the stereo experience because each sound is in its place, if well equalized of course.
FX	• Short for 'effects'. Common effects include reverb, chorus, distortion, and flange - processes or devices applied to a signal to alter its sound
Gain	• How loud a signal is before it goes through an amplifier. Can be another word for volume, and another word for guitar distortion
Latency	 Latency is the delay between inputting a signal (such as playing a key on a controller), the processing of the signal in the DAW, and the playback of that signal. Poor latency can cause problems, like out of time recordings, or audio effects that don't work as intended. The most common solution is to buy more expensive equipment
Live and recorded sound	 Live sound is being performed in the moment, whereas recorded sound has already been performed and stored for playback at a later point. A music technology composition could include a combination of live and recorded sound, with or without effects being added to either or both.
Loop	A repeated section of a song, often using imported samples
Mastering	 The final stages after mixing has been complete, the icing on the cake which makes tracks on a wider body of work sound uniform, and often also makes them louder
MIDI	 Another acronym (musical instrument digital interface), this is pronounced as a word (like the French for 'midday'). MIDI is complicated, so just remember a 'MIDI track' is one that can be easily edited in a DAW.



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Term	Definition
MIDI Controller	 A controller is a device which sends 'musical' information to the computer, often using MIDI. MIDI controllers often look like a (musical) keyboard, and send information such as frequency (pitch), duration, or velocity (dynamics), to a DAW.
	 They can be used to 'trigger' (start) certain events in live performance, such as beginning/ending a loop, or adding/changing an effect. They don't always look like keyboards; you may see drum pads, a guitar controller, or even a wind controller (that you blow into) used to send data to your computer
Mixing	Applying processing and levelling audio recordings with the goal of making a balanced and listenable end product
Mixing Desk	 A unit which can control the routing and processing of audio signals. Some may have the functionality to connect to a computer, but not always. They are used commonly for live music or larger recording studio set ups. This is represented in GarageBand by each track's controls (Volume, Pan etc)
Panning	 Panning is the act of distributing the audio signal in a stereo field with panning controls. It can make sounds appear to come from different places in the left-right audio spectrum, therefore creating more space and width in the mix.
Plug-In	 A piece of software either included in a DAW or that can be loaded within a DAW and used for audio/MIDI processing. These can be used for effects such as EQ, Compression & Reverb
Quantising/ Quantisation	 When working with MIDI tracks, quantising can be used to 'make music sound in time'. It does this by 'snapping' each note to a predetermined point in the bar, depending on the settings. For example, 1/4 quantising will snap each note to the nearest quarter note, or crotchet, or 4th of a bar (it makes sense, trust me).
	 A general rule of thumb is to quantise to the shortest note value in a phrase (so if semi-quavers are used, try 1/16 quantisation). Be aware that this doesn't fix really out of time music, and it can remove some of the organic, musical qualities of a track
Recordings	 During the process of composing and producing a music technology composition a number of recordings will probably be made. These may be "dry" so that effects can be added later or may incorporate effects from the point of recording. At the end of the process, they should be mixed down into a final stereo recording.
Reverb	 Reverb is a complex echo resulting from multiple echoes reflecting on a hard surface many times, and with different amplitudes. These reverberations happen around us daily, but we're too busy to pay attention. If you take time to notice next time you're in an indoor pool or a church, that feeling of multiple echoes vibrating back to you when you speak is reverb. The sound waves bounce so fast that they lay on top of each other, creating what we call reverberations.
	 This audio effect is a great way to create a feeling of spaciousness in your mix and can help unify all the elements of your song. It generally works great on vocals and guitars.

Year 10 Music Technology:		
Term	Definition	
What is a MIDI controller?		
Define mixing		
What is a mixing desk?	e de la companya de la	
Define panning	g	
What is a plug-in?	n?	
Define quantising/ quantisation		
Define Recordings	gs	
What is a reverb?	b?	

Term	Definition
Sample	 A sample is any pre-existing piece of audio that can be imported into a project and used as part of a track. The recorded 'loops' that come with GarageBand are samples, as is the hook from <i>Bootylicious</i> by Destiny's Child (it originally comes from the track <i>Edge of Seventeen</i> by Stevie Nicks). Finding, editing, and reusing samples is a key part of much electronically produced music
Sampling	 Taking a short audio recording and manipulating this to include it in a new composition. For example, the tempo and/or pitch of the sample could be changed, it could be reversed, it could be cut into smaller samples and rearranged, or short sections could be repeated to give a stuttering effect.
Scores and lead sheets	 The way in which music is written down, either as a traditional score (such as may be produced in software like Sibelius) or in a lead sheet which communicates the information in a different way, possibly graphically, using chord symbols, software screenshots with annotation, or in tab notation used by guitarists and drummers
Software instrument	 A virtual instrument (usually opened within a DAW), which interprets MIDI data and outputs it as the sound of an instrument
Тетро	 The speed of music. In BPM (beats per minute), 60 BPM for example is one beat a second
Velocity	 The force at which a note is played



Term	Definition
What is a sample?	
Define sampling	
What are scores and lead sheets?	
Define software instrument	
Define tempo	
Define velocity	



Year 10 Music Technology:		
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Chorus	 Although it is best-used washing sounds and making supporting layers of your mix ambient, the chorus effect can have many purposes. One of the most obvious examples is how it can make your guitar feel like a "chorus" of guitars. 	
Clipping	Another word for 'distorting' or 'peaking'	
Compression	 Compression, along with reverb, is probably one of the most used effects in a DAW. Simply put, compression makes the loudest bits quieter, and the quietest bits louder (it 'compresses' the extremes). 	
-	When done correctly, this usually produces a more pleasant listening experience	
DAW	• DAW is an acronym that means 'digital audio workstation'. It is sometimes spelt out when spoken (dee, ay, double you), or pronounced like 'door' (which sounds silly and can be confusing, especially if you are explaining something and you are standing by an actual door).	
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FX	• Short for 'effects'. Common effects include reverb, chorus, distortion, and flange - processes or devices applied to a signal to alter its sound
Gain	• How loud a signal is before it goes through an amplifier. Can be another word for volume, and another word for guitar distortion
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Mastering	 The final stages after mixing has been complete, the icing on the cake which makes tracks on a wider body of work sound uniform, and often also makes them louder
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Term	Definition
MIDI Controller	 A controller is a device which sends 'musical' information to the computer, often using MIDI. MIDI controllers often look like a (musical) keyboard, and send information such as frequency (pitch), duration, or velocity (dynamics), to a DAW. They can be used to 'trigger' (start) certain events in live performance, such as beginning/ending a loop, or adding/changing an effect. They don't
	always look like keyboards; you may see drum pads, a guitar controller, or even a wind controller (that you blow into) used to send data to your computer
Mixing	• Applying processing and levelling audio recordings with the goal of making a balanced and listenable end product
Mixing Desk	 A unit which can control the routing and processing of audio signals. Some may have the functionality to connect to a computer, but not always. They are used commonly for live music or larger recording studio set ups. This is represented in GarageBand by each track's controls (Volume, Pan etc)
Panning	 Panning is the act of distributing the audio signal in a stereo field with panning controls. It can make sounds appear to come from different places in the left-right audio spectrum, therefore creating more space and width in the mix.
Plug-In	 A piece of software either included in a DAW or that can be loaded within a DAW and used for audio/MIDI processing. These can be used for effects such as EQ, Compression & Reverb
Quantising/ Quantisation	 When working with MIDI tracks, quantising can be used to 'make music sound in time'. It does this by 'snapping' each note to a predetermined point in the bar, depending on the settings. For example, 1/4 quantising will snap each note to the nearest quarter note, or crotchet, or 4th of a bar (it makes sense, trust me).
	 A general rule of thumb is to quantise to the shortest note value in a phrase (so if semi-quavers are used, try 1/16 quantisation). Be aware that this doesn't fix really out of time music, and it can remove some of the organic, musical qualities of a track
Recordings	 During the process of composing and producing a music technology composition a number of recordings will probably be made. These may be "dry" so that effects can be added later or may incorporate effects from the point of recording. At the end of the process, they should be mixed down into a final stereo recording.
Reverb	 Reverb is a complex echo resulting from multiple echoes reflecting on a hard surface many times, and with different amplitudes. These reverberations happen around us daily, but we're too busy to pay attention. If you take time to notice next time you're in an indoor pool or a church, that feeling of multiple echoes vibrating back to you when you speak is reverb. The sound waves bounce so fast that they lay on top of each other, creating what we call reverberations.
	 This audio effect is a great way to create a feeling of spaciousness in your mix and can help unify all the elements of your song. It generally works great on vocals and guitars.

Term	Definition
What is a MIDI controller?	
Define mixing	
What is a mixing desk?	
Define panning	
What is a plug-in?	
Define quantising/ quantisation	
Define Recordings	
What is a reverb?	

Ø

Term	Definition
Sample	 A sample is any pre-existing piece of audio that can be imported into a project and used as part of a track. The recorded 'loops' that come with GarageBand are samples, as is the hook from <i>Bootylicious</i> by Destiny's Child (it originally comes from the track <i>Edge of Seventeen</i> by Stevie Nicks). Finding, editing, and reusing samples is a key part of much electronically produced music
Sampling	 Taking a short audio recording and manipulating this to include it in a new composition. For example, the tempo and/or pitch of the sample could be changed, it could be reversed, it could be cut into smaller samples and rearranged, or short sections could be repeated to give a stuttering effect.
Scores and lead sheets	 The way in which music is written down, either as a traditional score (such as may be produced in software like Sibelius) or in a lead sheet which communicates the information in a different way, possibly graphically, using chord symbols, software screenshots with annotation, or in tab notation used by guitarists and drummers
Software instrument	 A virtual instrument (usually opened within a DAW), which interprets MIDI data and outputs it as the sound of an instrument
Тетро	 The speed of music. In BPM (beats per minute), 60 BPM for example is one beat a second
Velocity	 The force at which a note is played



Term	Definition
What is a sample?	
Define sampling	
What are scores and lead sheets?	
Define software instrument	
Define tempo	
Define velocity	

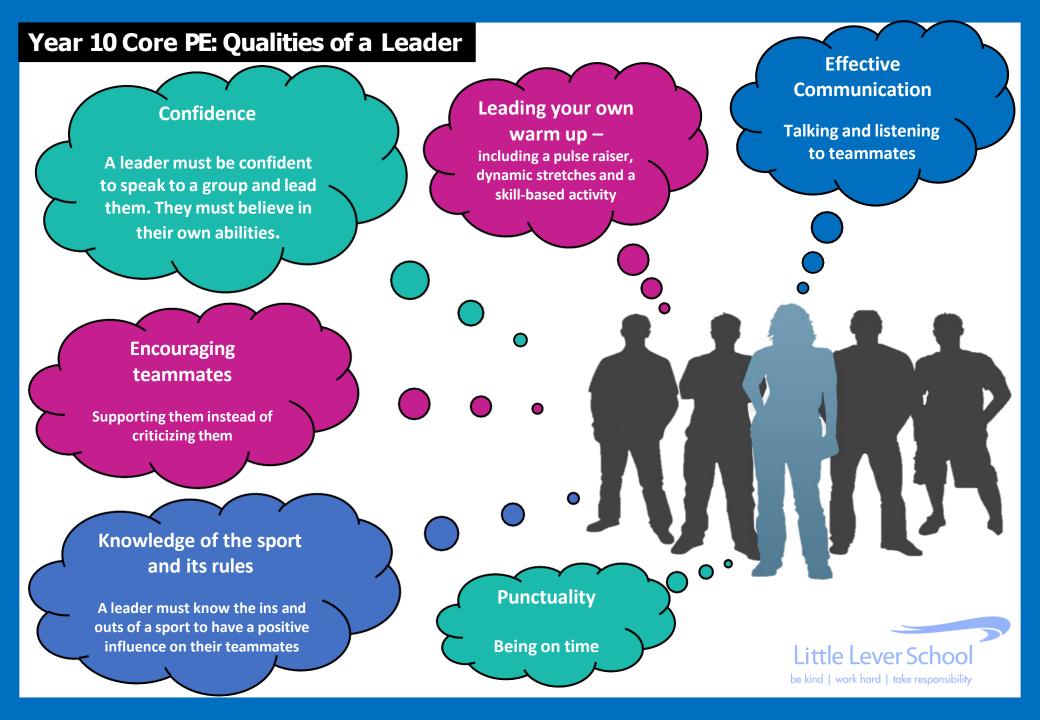






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Applauding opponents when they do something well. Admitting if a foul is made of if the ball is out of play. Playing fair.

Signal

Use arm signals to give a visual cue of what decision you have made

Etiquette

Polite behaviour in sport. Shaking hands with opponents. Complimenting them if they do something well.

Whistle

You need to blow your whistle to get the attention of the players

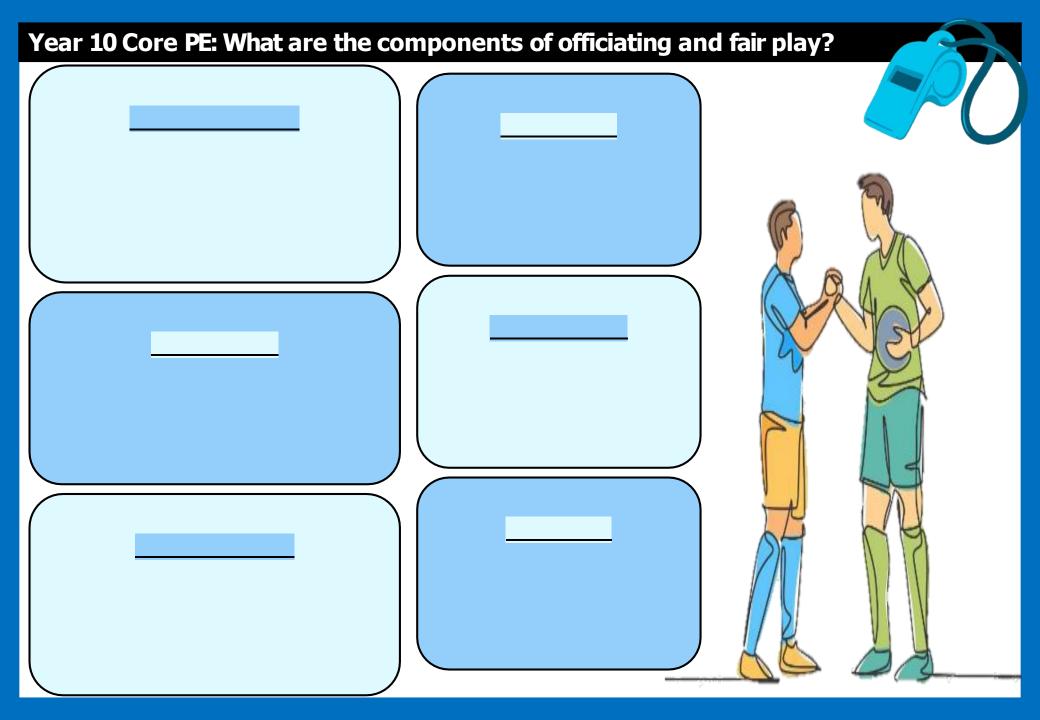
Gamesmanship

Bending the rules to gain an advantage. Not classed as cheating.

Restart

Know how to restart the game correctly





Year 10 Core PE:

	Attacking & Defending Tactics	
Zonal Defending	Defending a space rather than a person	
Looking for a space	Move away from defenders and into space to receive a pass	
Person on person defending	Staying close to a player and 'marking' them by following them wherever they go.	
Communicating	 Using names to ask for a pass or to get the attention of the receiver Talking to teammates to keep the defence in an organised shape 	
Triangles	Create angles to pass and receive quickly with no defenders in between	
Closing the space	Closing the space between you and the attacker to make it difficult for them	
Width	Use width to attack and stretch defences, such as the inverted U.	

Year 10 Core PE:

Define th	ne attacking & defending tactics below:	
Zonal Defending		
Looking for a space		
Person on person defending		
Communicating		
Triangles		
Closing the space		
Width		

Year 10 Core PE: Fitness

Motor Competence

Muscular Strength	The amount of force you can put out or the amount of weight you can lift.
Muscular Endurance	Perform exercises to failure so that you improve your muscular endurance.
Speed	Moving your body fast as possible.
Agility	Changing direction rapidly, whilst maintaining speed and precision.
Flexibility	A joint or series of joints to move through an unrestricted, pain free range of motion.
Balance	Even distribution of weight enabling someone or something to remain upright and steady.
Co-ordination	Throw with one hand catch with the other.
Reaction Time	How fast an athlete is able to respond to a stimulus.
Cardiovascular Fitness	To exercise the whole body for long periods

Rules, Strategies and Tactics

- With all of the movements completed to improve muscular strength the correct technique must be used as this would stop any injuries or muscular injuries occurring.
- With all of the movements completed to improve agility and speed the correct technique must be used as this would stop any injuries or muscular injuries occurring.



Healthy Participation

Muscles

Gluteal, hamstrings, quadriceps, gastrocnemius

Fitness components

Aerobic, anaerobic, warm up, cool down, circuit, continuous, fartlek

Year 10 Core PE: Fitness

Year 10 Core PE: Fitness			Rules, Strategies and Tactics	
Motor Com	Motor Competence- define each term below:		Explain the rules and strategies to fitness below:	
Muscular Strength				
Muscular Endurance				
Speed				
Agility				
Flexibility				
			Healthy Participation	
Balance			What are the muscles used	
Co-ordination			during fitness workouts?	
Reaction Time			What are the fitness	
Cardiovascular Fitness			components?	

Year 10 Option PE: The Media						
Digital a	nd Social media:	Different	Different forms of broadcast media		Print media sources	
 Social networking Media sharing sites Live streaming and technology on the move Websites/blogs 		Television	Freeview, SMART TV and subscription services	Newspapers	Broadsheet, tabloids, the Guardian, The Daily Mail	
Social and						
digital media	Different source types for example Twitter	Radio	Specific sport internet streaming services and	Magazines	Monthly subscriptions, FourFourTwo, Rugby World	
Streaming	For example, YouTube		radio providers			
sites					History, skill books, Sam	
Technology on the move	Tablets and phones	Podcasts	iTunes, Amazon Music; That Peter Crouch Podcast	Books	Warburton - open side	
Websites and blogs	For example Sky Sports, F1 fanatic, CAUGHTOFFSIDE, the sporting blog		You	ube	alkSPORT	

Year 10 Option PE: The Media					S	ports
List examples of digital and social media:			List the different forms of broadcast media:		What are print media sources?	
 Social networking Media sharing sites Live streaming and technology on the move Websites/blogs 			Freeview, SMART TV and subscription services			Broadsheet, tabloids, the Guardian, The Daily Mail
	Different source types for example Twitter	Specific sport internet streaming services and			Monthly subscriptions, FourFourTwo, Rugby Wor	
			radio providers			
	For example, YouTube		iTunes, Amazon Music;			History, skill books, Sam
			That Peter Crouch Podcast			Warburton - open side
	Tablets and phones					
	For example Sky Sports, F1 fanatic, CAUGHTOFFSIDE, the sporting blog		You	ube		alkSPORT

Year 10 Option PE: The Media						
What are the positive effects of the media?						
Participation	Raising the Profile of Sport	Education	Revenue			
 How the media can help promote sport to increase awareness and improve participation levels: Inspiring others to participate Creating and adopting role models Examples include: Exposure and coverage more likely to inspire others to participate – grass roots increase (netball after Commonwealth gold, cycling after 2012 Olympic success) 'Influencers' through social networks How this exposure and coverage might remove some barriers to participation 	 How the media can share positive messages and raise the profile of sports, break down barriers, promote the health and fitness industry Sports initiatives that seek to increase participation Promotion of an active, healthy lifestyle Examples may include: Initiatives – how the media use topical role models and famous people (celebrities) to promote current initiatives Rise in home health and fitness industry – online, live and on demand fitness classes 	 How the media can share positive updates and overviews of sports and their developments Exposure for emerging and minority sports Continued education of performers and spectators in emerging sports and changes to existing sports Includes: Examples of emerging/new and minority sports – such as handball, walking football Increase in media sources – this increases exposure and wider demographic reached so new initiatives are easily promoted Education/changes: rules, new technologies, new variations to attract more spectators and participants 	 How the media positively influences the revenue from sport: Promotional opportunities for business and commercial sport Sport as a commodity The Golden Triangle Includes: Sport using the media to sell itself, the media uses sport to sell newspapers, TV channels, with many sports dependent on media money as source of revenue Sport changing rules and adapts competitions to attract spectators and media coverage (e.g. 20/20 cricket) How sport performers promote themselves and their sport using social networks Sponsors of main events (e.g. Olympics) 			

Year 10 Option PE: The Media						
	What are the positive	effects of the media?				
Participation	Raising the Profile of Sport	Education	Revenue			
How the media can help promote sport to increase awareness and improve participation levels: • - Examples include: • -	How the media can share positive messages and raise the profile of sports, break down barriers, promote the health and fitness industry • - • - Examples may include:	How the media can share positive updates and overviews of sports and their developments • - • - Includes: • -	How the media positively influences the revenue from sport: • - • - • - Includes: • -			
• -	• -	• -	• - • -			

What are the negative effects of the media?					
External factors affecting decline in live spectatorship	Ethical appropriateness of sponsors	How the media is assisting a widening wealth divide in sport	Impact of wider global issues on sport/ performers and spectators	Media demands affecting sport fixture scheduling	
To include:	Examples may include:	Examples may include:	Examples may include:	Examples may include:	
 Effect on clubs and surrounding communities; Pay Per View (PPV), live streaming, social networks, increased technology and multiple devices Links between gambling online and attendance at live sports events 	 Gambling logos: might this be banned? Alcohol sponsors: American National Football league Formula1: tobacco being banned since 2005 Ethical sponsors: fast/junk food, energy drinks Individual athletes: diet/supplement products 	 Premiership football: agents' fees for top transfers, wages, TV rights compared to lower leagues and other sports Gender divide in earnings Divide between top sports and 'growing'/minority sports 	 Reduction in live spectator sport due to current affairs (e.g. pandemics) Major competition hosts travel restrictions or different time zones/climates 	 Christmas calendar for Premiership football Major events/tournaments – international breaks Major event (World Cup) impact on leagues/ participants 	

sky sports box office

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To include:	Examples may include:	Examples may include:	Examples may include:	Examples may include:	
• -	• -	• -	• -	• -	
• -	• -	• -		• -	



Negative Impacts On Sport and Sports Performers						
Coverage of inappropriate behaviour on-field and off- field	Rejection of sporting heroes	Scrutiny and criticism of participants including officials, performers and leaders	Increased pressure on athletes to look a certain way and links to mental health			
Includes a broad range of media sources – one off or repeated poor behaviour is for all to see up close, replayed, archived forever.	 Research examples of current sporting heroes. Examples from 2020 may include: Sir Bradley Wiggins Danny Cipriani Victoria Pendleton 	Impact in society: Aggression seen in football fans, aggression against officials at grass roots.	Different body types appropriate to different sports but not understood by the media. E.g. female strength athletes having a body type which is not usually promoted as the standard ideal of what a woman should look			



like

What are the negative impacts on sport and sports performers?

1.	2.	3.	4.
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like

Religious Education



Helping every person achieve things they never thought they could.

Little Lever School be kind | work hard | take responsibility

Year 10 RE: Christianity

Christianity is a **monotheistic** religion, which means that they believe in **One God.** They believe that God has many qualities/attributes.

Qualities	Meaning	Evidence from the Bible
Omnipotent	All-powerful	The creation of the world in Genesis. Miracles that Jesus performed, for example, turning water into wine.
Omni-benevolent	All-loving	Jesus' death - so that humanity could achieve salvation and atonement.
Just	Fair, treat everyone equally.	The Parable of the Sheep and Goats. The Book of Job.

Key Words



- Salvation the idea that Jesus saved humanity from sin and death through his death and resurrection.
- **Sin** acting against God's will.
- Original Sin Some Christians believe this was the first sin, committed by Adam and Eve.
- Atonement Forgiveness, reconciliation, being 'at one' with God.



			HOLY
that they believe	re	ligion, which means They believe that /attributes.	 Key Words- define below: Salvation –
Qualities	Meaning	Evidence from the Bible	• Sin –
Omnipotent			 Original Sin – Atonement –
Omni-benevolent			
Just			

Year 10 RE: Christianity

The Trinity is the Christian belief in One God, made up of three persons. The three persons of the Trinity for Christians are **God the Father**, **God the Son (Jesus)** and **God the Holy Spirit**. They are all equally important.

Christians see the three persons of the Trinity as having different characteristics and roles.

God the Father	God the Son	God the Holy Spirit
Sustains and rules everything.	Born of the Virgin Mary.	Part of God that works within the world.
Will judge.	Performed miracles.	Helper and guide.
Continues to care for us like a father.	Rose from the dead on the third day.	Invisible power of God which breathes new life into people.
Creator	Redeemer, saviour	Provides courage and strength.

Why do Christians believe in the Trinity?

- 1. It is explained in the Creeds, for example, the Apostles' Creed and the Nicene Creed.
- 2. It is referred to in the Creation Story.
 - It is referred to when Jesus was baptised.

How do Christians express their belief in the Trinity?

- 1. They recite the creeds.
- 2. They do the 'sign of the cross' at the beginning and end of prayers.
- 3. During baptism, water is poured over the head three times.
- 4. They celebrate Trinity Sunday.

Year 10 RE: Christianity

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_____. They are all equally important.

Christians see the three persons of the Trinity as having different characteristics and roles.

God the Father	God the Son	God the Holy Spirit

Why do Christians believe in the Trinity?

1.

2.

1.

2.

3.

4.

How do Christians express their belief in the Trinity?

	Key Words	\square
Absolute	Unchanging, eternal	The Nature of God Christians believe in one God, who is the creator and the
Ascension	Jesus returning to be with God in heaven, 40 days after his resurrection.	 sustainer of all that exists. They believe God is: Omnipotent - which means he is almighty and has unlimited power
Atonement	Forgiveness from God.	Omnibenevolent – which means he is all loving, caring and
Crucifixion	Being nailed to the cross to die.	kind. Just – which means he is a perfect and fair judge.
Divine	God	The Trinity
Eternal	Has always existed and will continue to exist forever.	Christians believe God is three persons in one. This idea is called the Trinity . Each person of the Trinity is fully God but the three persons
Holy/sacred	Extremely special	of the Trinity are not the same.
Immanent	Involved in the world.	The Father is the creator of all life. The Son is Jesus Christ who is both fully human and fully God.
Incarnation	The idea that Jesus was fully God and fully human.	The Holy Spirit is the unseen power at work in the world, especially answering prayers.
Luke 1:35		'We believe in One God, Father, Son and Holy Spirit' (Nicene Creed).

	Key Words	
Absolute		The Nature of God Christians believe in God, who is the creator and the
Ascension		of all that exists. They believe God is: Omnipotent - which means he is almighty and has unlimited
Atonement		
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Incarnation		especially answering prayers.
		'We believe in One, Father, Son and Holy Spirit' (Nicene).

Key Words						
Just	Fair					
Omnibenevo lent	All loving, caring and kind					
Omnipotent	All powerful					
Omniscient	All knowing, all seeing					
Original Sin	The first sin, committed by Adam and Eve.					
Resurrection	Being raised from the dead.					
Salvation	Being saved					
Sin	Disobeying God.					
Transcenden t	Beyond this world					
Trinity	The three persons of God – Father, Son and Holy Spirit.					

Incarnation

Christians believe that God was **incarnated** (born) in human form as Jesus Christ.

Mary became pregnant by the power of the Holy Spirit and gave birth, even though she was a virgin. For Christians, this is proof of Jesus' status as the Son of God.

Christmas is the festival that celebrates the incarnation. 'The word became flesh' (John)

Crucifixion

Jesus travelled to Jerusalem to preach and celebrate the Jewish festival of Passover. While he was praying in the Garden of Gethsemane with his disciples (followers) he was arrested and then put on trial by the Jewish Sanhedrin (court). They accused him of blasphemy – saying he was God. He was later sentenced to death by the Roman Governor, Pontius Pilate.

Jesus was nailed to a cross to die. He said to the thief next to him, 'Today, you will be with me in paradise' (Luke)

In his last moments Jesus was able to forgive those who were killing him, showing Christians how important forgiveness is. This event is remembered on Good Friday.

'Forgive them father, they know not what they do.' (Luke)

<u>Incarnation</u>
Crucifixion Jesus travelled toto preach and celebrate the Jewish festival of While he was praying in the Garden ofwith his disciples (followers) he was arrested and then put onby the Jewish Sanhedrin (court). They accused him ofsaying he was God. He was later sentenced to by the Roman Governor, Pilate. Jesus was nailed to a cross to die. He said to the thief next to him, '' (Luke) In his last moments Jesus was able to those who were killing him, showing Christians how important forgiveness is. This event is remembered on Friday. ''(Luke)

Ascension - This is when Jesus went up to heaven.

For 40 days after the resurrection, many of Jesus' disciples said they had met him alive in various places around Jerusalem.

The, Jesus ascended into heaven to be with God the Father once again.

'While he was blessing them, he left them and was taken up into heaven.' (Luke)

Why is the belief in the Ascension important to Christians?

- It illustrates God's omnipotence (power). Jesus is now 'at the right hand of the mighty God.' (Luke)
- It demonstrates that Jesus had done what he needed to do - died to save us from sin - and so it was time to go back to God.
- It shows them that they have an 'advocate' with God – someone who is looking out for them.
- It shows there is a place or all humans with God.

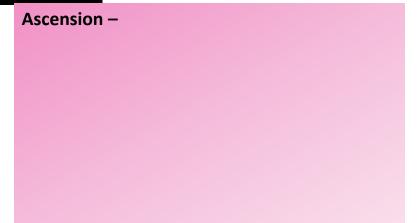
Resurrection

The resurrection is the Christian belief that after Jesus died and was buried, he rose from the dead.

Early on the Sunday morning after his crucifixion, three women visited his tomb expecting to find his body there. They were asked 'Why do you look for the living among the dead? He is not here, he has risen!' (Luke)

Why is the belief in the Resurrection important to Christians?

- It shows God is omnipotent. He had the power to overcome death.
- Christians believe that if you follow Jesus' teachings and get baptised, they can also overcome death. They can achieve salvation and receive the gift of eternal life with God.
- It makes death less frightening.



Why is the belief in the Ascension important to Christians?

Resurrection

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(Luke)

Why is the belief in the Resurrection important to Christians?



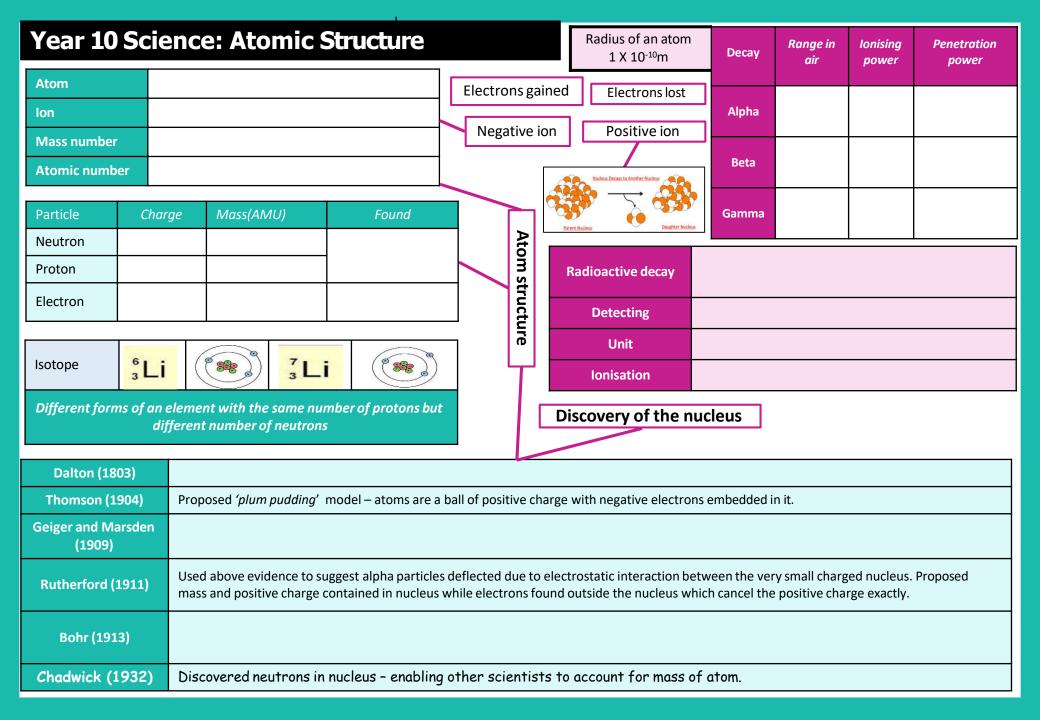
Science

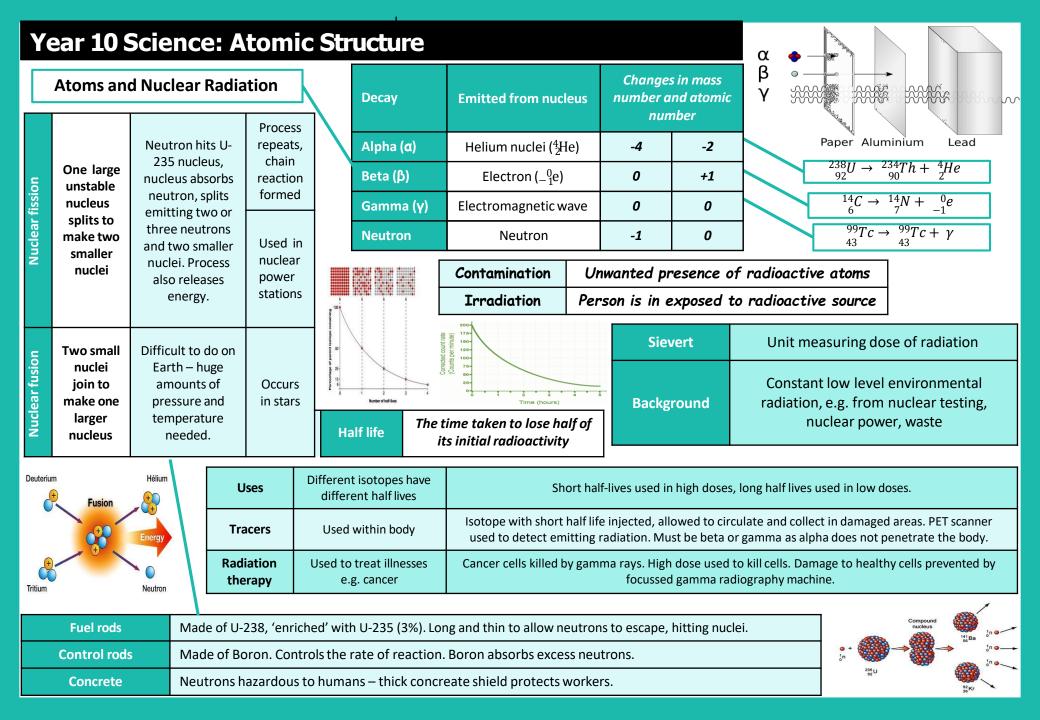


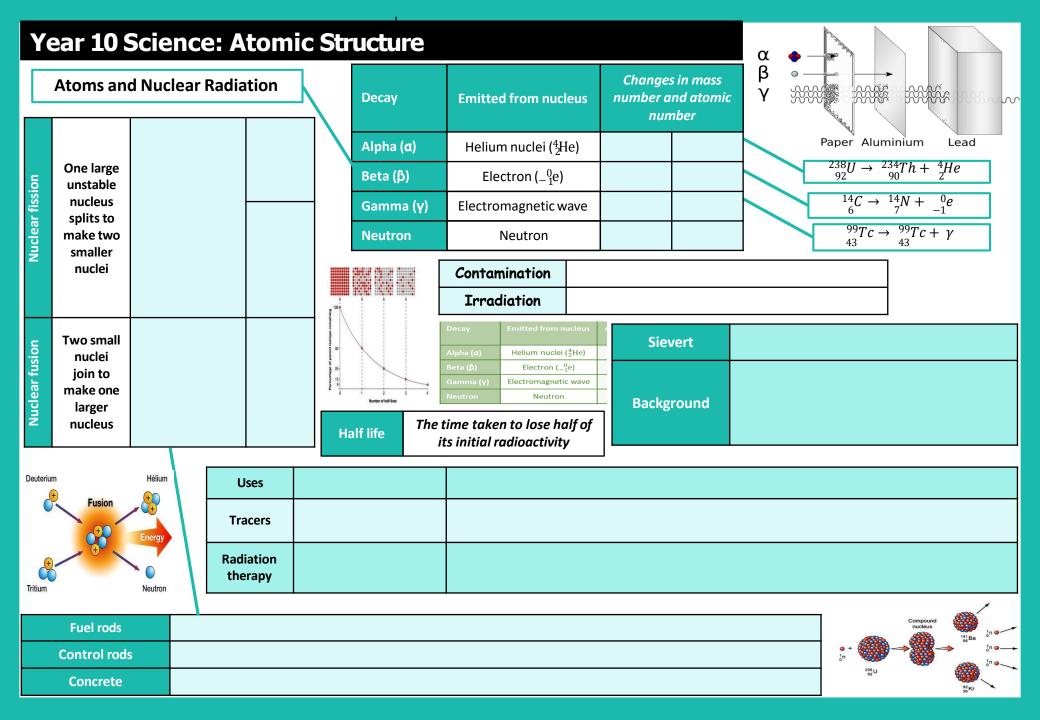
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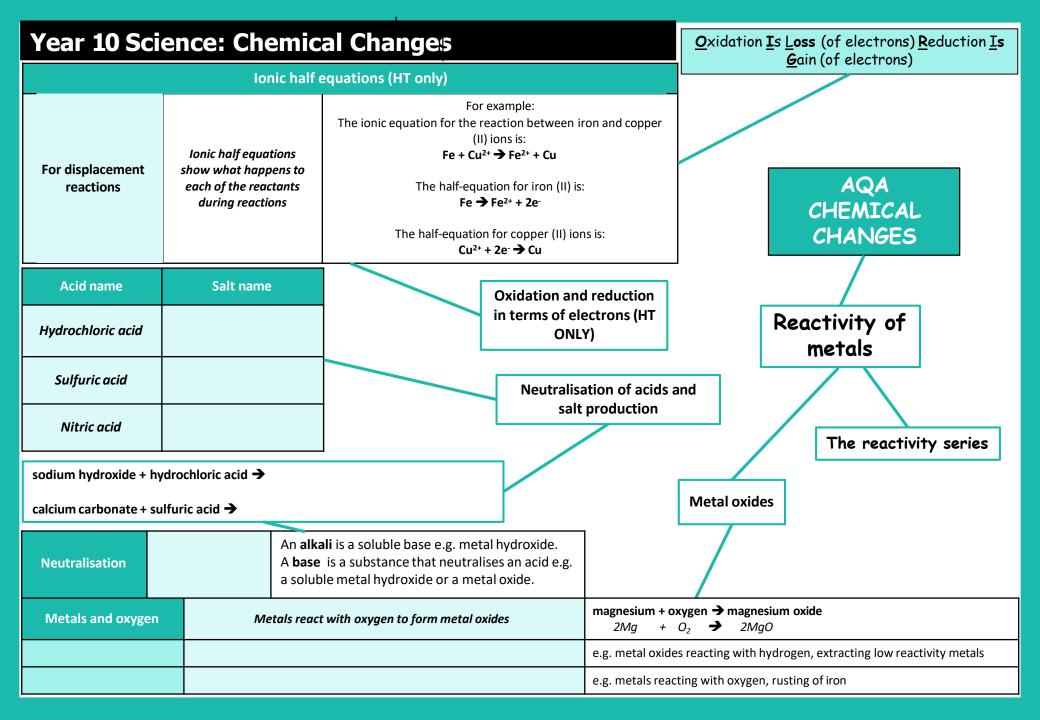
Year 10		nce: Atomic		1		Radius of an atom 1 X 10 ⁻¹⁰ m	Decay	Range in air	lonising power	Penetration power
Atom	Sar	ne number of protons a	nd electrons	Electrons gaine	ed	Electrons lost			Very	Stopped by
lon	Une	equal number of electro	ns to protons	Negative ion		Positive ion	Alpha	Few cm	strong	paper
Mass number	Nui	mber of protons <u>and</u> net	itrons	Negative ion		Positive ion				Stopped by
Atomic numbe	er Nul	mber of protons		l r		Nucleus Decays to Another Nucleus	Beta	up to 1m	Medium	Aluminium
Particle	Charg		Found		Parent Nu	cleus Dauther Nucleus	Gamma	Great distances	Weak	Stopped by thick lead
Neutron	None	1	In the nucleus	tor			Lingtoble			
Proton	+	1		n st	Ra	dioactive decay	Unstable	e atoms rand becom	iomiy emit i ne stable	adiation to
Electron	-	negligible	Orbits the nucleu	Atom structure		Detecting		e		
					Dunit Becquerel					
lsotope	⁶ ₃ Li		i			Ionisation	All radiation ionises			
Different form:		ement with the same n erent number of neutro			Disc	covery of the nuc	cleus			
Dalton (180	3)	Suggested idea of atoms	as small spheres that	t cannot be cut.						
Thomson (19	04)	Proposed 'plum pudding	'model – atoms are a	a ball of positive charg	ge wi	ith negative electrons	embedded i	n it.		
Geiger and Mar (1909)	rsden	Directed beam of alpha particles ($^{4}_{2}$ He) at a thin sheet of gold foil. Found some travelled through, some were deflected, some bounced back.								
Rutherford (1		Used above evidence to suggest alpha particles deflected due to electrostatic interaction between the very small charged nucleus. Proposed mass and positive charge contained in nucleus while electrons found outside the nucleus which cancel the positive charge exactly.								
Bohr (1913	Bohr (1913) Suggested modern model of atom – electrons in circular orbits around nucleus, electrons can change orbits by emitting or absorbing electromagnetic radiation. His research led to the idea of some particles within the nucleus having positive charge; these were named protons.									
Chadwick (19	Chadwick (1932) Discovered neutrons in nucleus - enabling other scientists to account for mass of atom.									

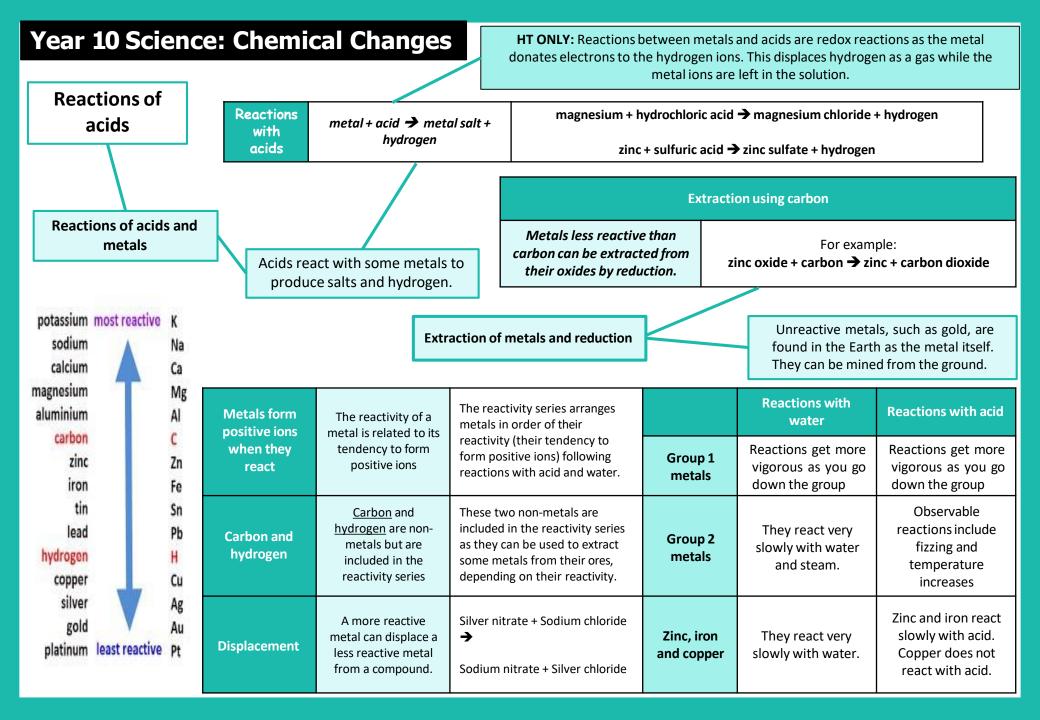


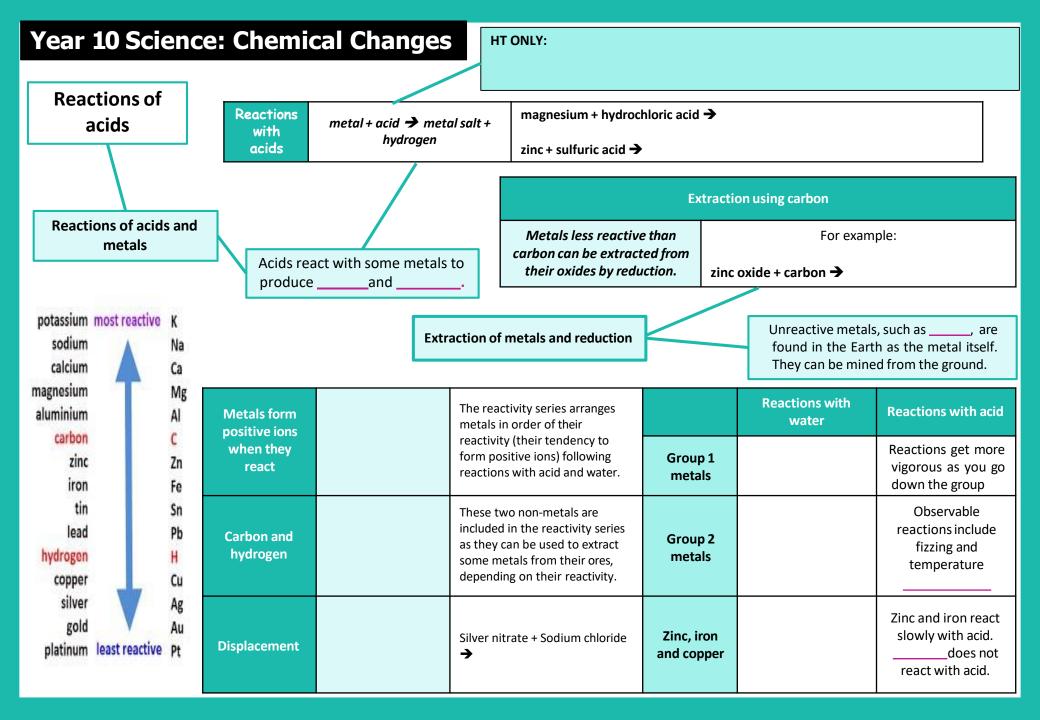




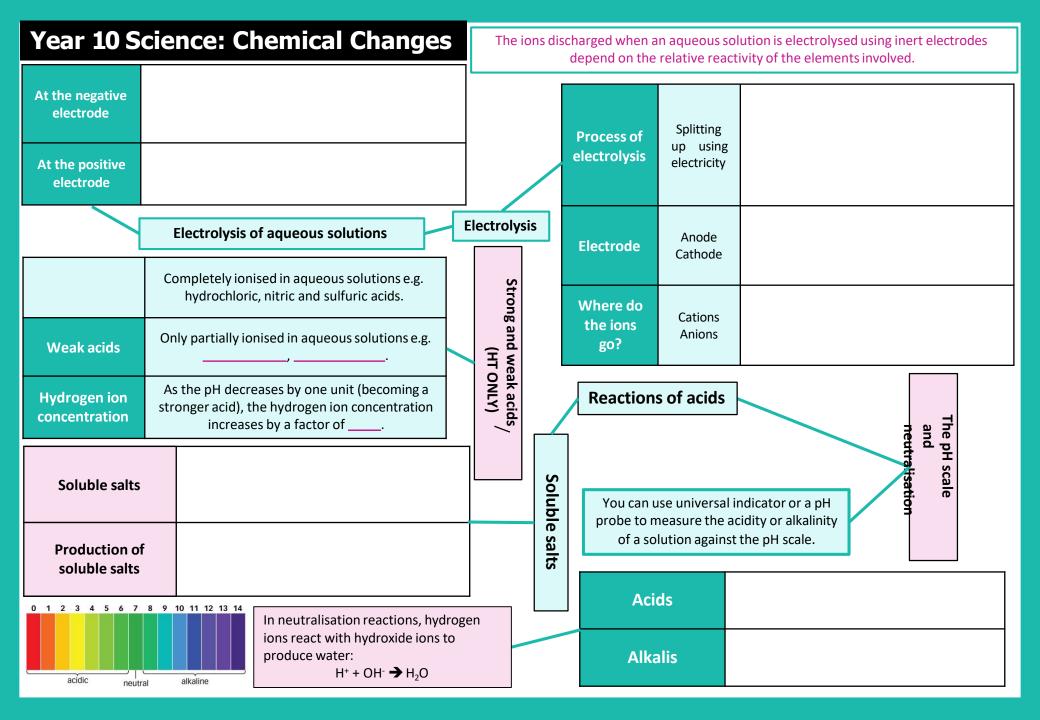
Year 10 Sci	ence: Chemic		<u>O</u> xidation <u>I</u> s <u>L</u> oss (of electrons) <u>R</u> eduction <u>I</u> s <u>G</u> ain (of electrons)					
	Ionic half							
For displacement reactions	lonic half equations show what happens to each of the reactants during reactions	For exa The ionic equation for the react (II) ion Fe + Cu ²⁺ \rightarrow The half-equation Fe \rightarrow Fe ² The half-equation for Cu ²⁺ + 2e	tion between ir ns is: • Fe²⁺ + Cu n for iron (II) is: ²⁺ + 2e - r copper (II) ion		AQA CHEMICAL CHANGES			
Acid name	Salt name	Ο	xidation and	reduction				
Hydrochloric acid	Chloride	in	terms of ele ONL	· ·	Reactivity of metals			
Sulfuric acid	Sulfate			tion of acids and	and			
Nitric acid	Nitrate		salt	production	The reactivity series			
sodium hydroxi	ide + hydrochloric acid 🗲 s	odium chloride + water		_				
calcium carbonate + s	sulfuric acid $ ightarrow$ calcium sulf	ate, + carbon dioxide + water		N	1etal oxides			
	neutralised by A base	An alkali is a soluble base e.g. metal hydroxide. A base is a substance that neutralises an acid e.g. a soluble metal hydroxide or a metal oxide.						
Metals and oxygen Metals react with oxygen to form metal oxides				magnesium + oxyge 2Mg + O ₂	en → magnesium oxide → 2MgO			
Reduction	This is when oxygen is	removed from a compound during	g a reaction	e.g. metal oxides rea	acting with hydrogen, extracting low reactivity metals			
Oxidation	Oxidation This is when oxygen is gained by a compound during a reaction e				with oxygen, rusting of iron			

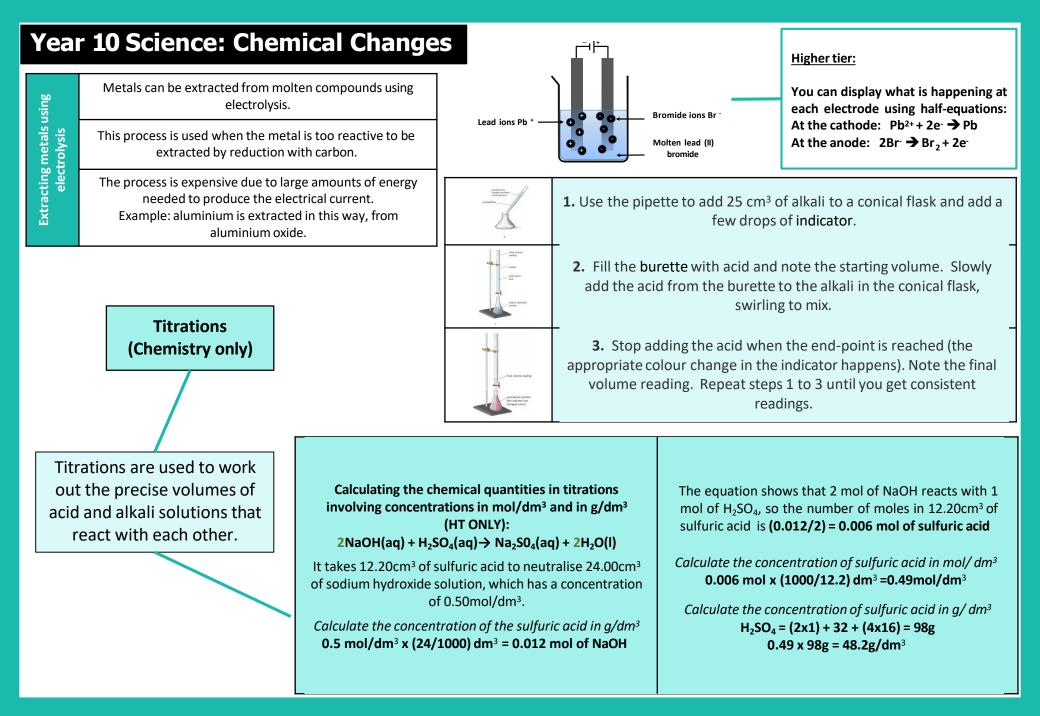


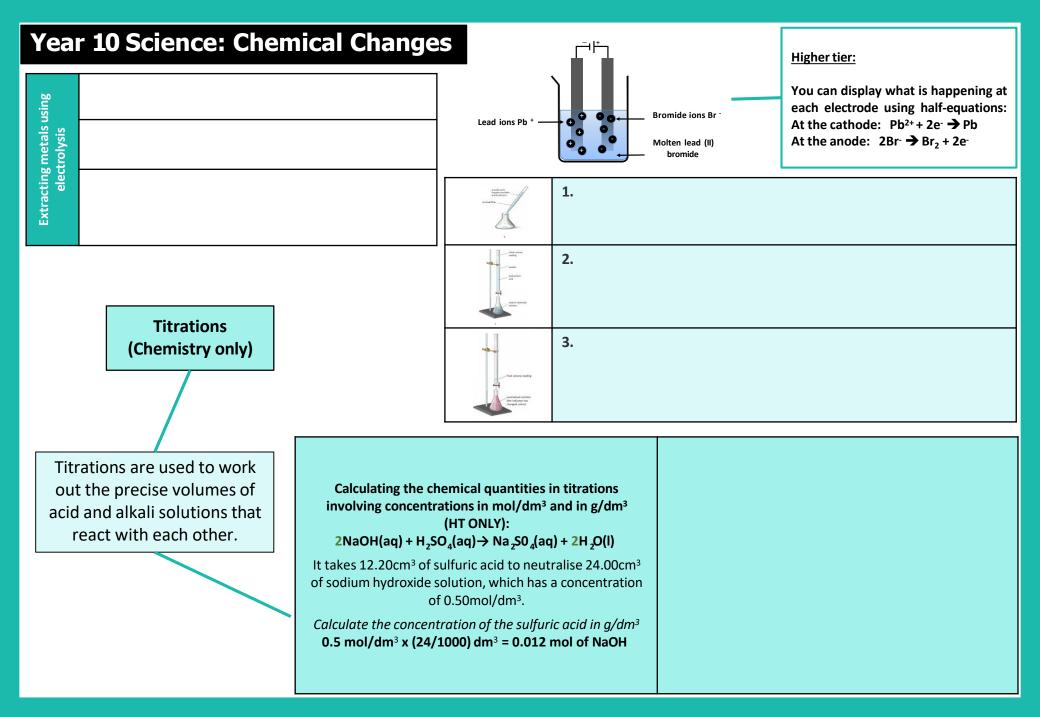




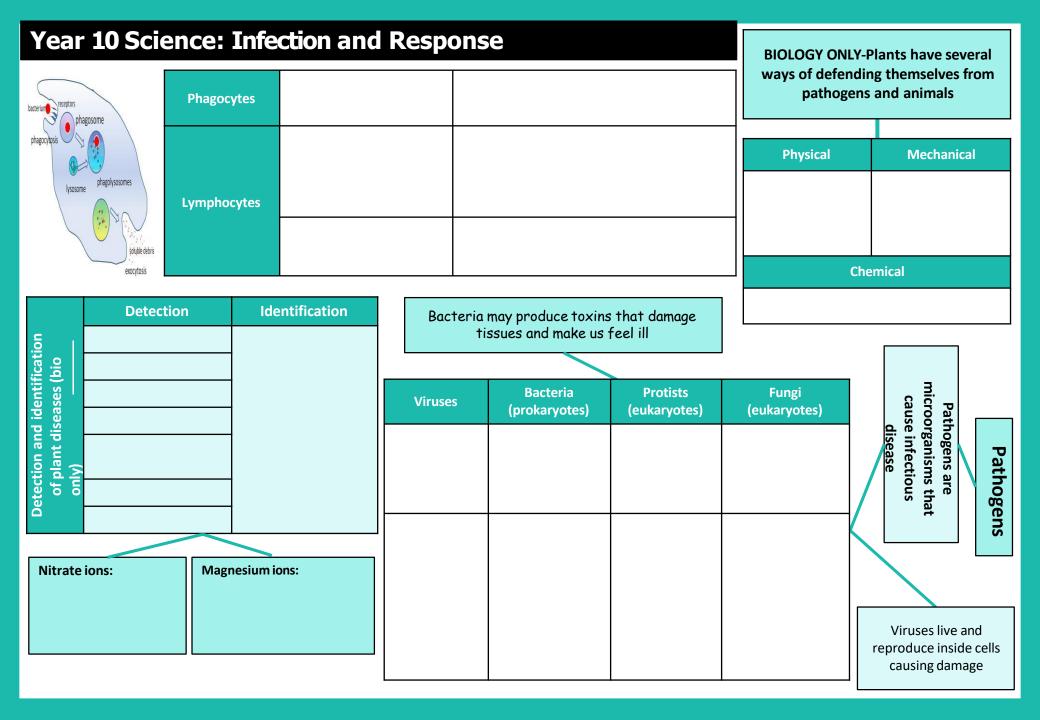
Year 10 S	cience: Chemical Changes	The ions			olution is electrolysed using inert electrodes trivity of the elements involved.		
At the negative electrode	Metal will be produced on the electrode if it is less reactive than hydrogen. Hydrogen will be produced if the metal is more reactive than hydrogen.		Process of	Splitting	When an ionic compound is melted or dissolved in water, the ions are free to move. These are then able to conduct		
At the positive electrode	Oxygen is formed at positive electrode. If you have a halide ion (Cl ⁻ , l ⁻ , Br ⁻) then you will get chlorine, bromine or iodine formed at that electrode.	you will get chlorine,			electricity and are called electrolytes. Passing an electric current though electrolytes causes the ions to move to the electrodes.		
	Electrolysis of aqueous solutions	Electrolysis	Electrode	Anode Cathode	The positive electrode is called the anode. The negative electrode is called the cathode.		
Strong acids	Completely ionised in aqueous solutions e.g. hydrochloric, nitric and sulfuric acids.	Strong and weak acids (HT ONLY)	Where do the ions	Cations Anions	Cations are positive ions and they move to the negative cathode. Anions are negative ions and they move to		
Weak acids	Only partially ionised in aqueous solutions e.g. ethanoic acid, citric acid.	and weak aci (HT ONLY)	go?		the positive anode.		
Hydrogen ion concentration	stronger acid) the hydrogen ion concentration		Reactions	s of acids	The p neu		
Soluble saltsSoluble salts can be made from reacting acids with solid insoluble substances (e.g. metals, metal oxides, hydroxides and carbonates).					indicator or a pH cidity or alkalinity		
Production of soluble saltsAdd the solid to the acid until no more dissolves. Filter off excess solid and then crystallise to produce solid salts.			of a so		t the pH scale.		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 In neutralisation reactions, hydroge			Acie	ds	Acids produce hydrogen ions (H ⁺) in aqueous solutions.		
acidic neutral alkaline acidic alkaline ions react with hydroxide ions to produce water: H ⁺ + OH ⁻ → H ₂ O			Alka	ilis	Aqueous solutions of alkalis contain hydroxide ions (OH ⁻).		

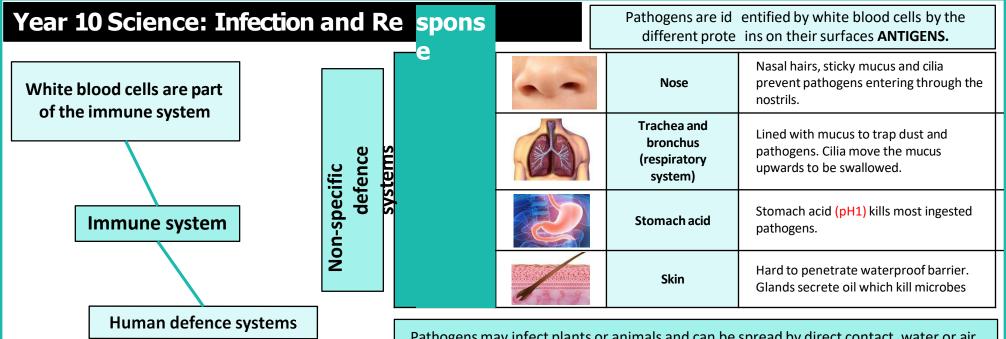






Year	Year 10 Science: Infection and Response									BIOLOGY ONLY-Plants have several				
baterium receptors Phagocy		ytes	Phagocy	tosis		Phagocytes engulf the pathogens and digest them.				ways of defending themselves from pathogens and animals				
phagocytosis	phagocytosis					Specific antibodies destroy the pathogen. This takes time so an infection can occur. If				Physical		Mechanical		
lysosome	phagolysosomes	Lympho	cytes	Antibody pro	Antibody production		a person is infected again by the same pathogen, the lymphocytes make antibodies much faster.			Thick waxy layers		s, Thorns, curling up leaves to prevent		
	şolyble debris			Antitoxin pro	oductio	n	toxin is a type of antil nteract the toxins pro			pathogen entry		being eaten		
	exocytosis						•	,	Chemical					
	Detection Identification Bacteria may produce toxins that damage					Antibacterial and toxins made by plant								
ion l	Stunted g	growth			tissues and make us feel ill								1	
ficat	Spots on	leaves	Ref	erence using										
enti ses (Area of	decay	garde	ning manual or	v	/iruses	Bacteria	Protists		Fungi				
d id isea	grow	ths		ite, laboratory or pathogens,			(prokaryotes)	(eukaryotes)	(eukaryotes)		ath Path		
Detection and identification of plant diseases (bio only)	Malformed stem/leaves		test m	testing kit using monoclonal		g. cold, fluenza, asles, HIV,	e.g. tuberculosis (TB), Salmonella,	e.g. dysentery, sleeping	-	athlete's foot, ush, rose black		Pathogens are microorganisms that cause infectious <u>disease</u>		Pathogens
etec of on	Discolou	ration	a	ntibodies.	tobacc		Gonorrhoea	sickness, malaria		spot		ire s tha ous		gor
Ō	Presence	of pests			mos	mosaic virus					H H		ens	
Nitrate ions needed Magnesium ions needed to for protein synthesis – make chlorophyll – not lack of nitrate = enough leads to chlorosis – stunted growth. leaves turn yellow.				No membrane		N 4 -					J ,			
				A or RNA rounded	bound organelles (no chloroplasts, mitochondria or	Membrane bound	0	mbrane bound rganelles, cell wall made of						
		•	leads to chlorosis –		a protein coat	nucleus). Cell wall. Single celled organisms	organelles. Usually single celled.		chitin. Single elled or multi- cellular	re	Viruses live eproduce insi causing dan	de cel	lls	



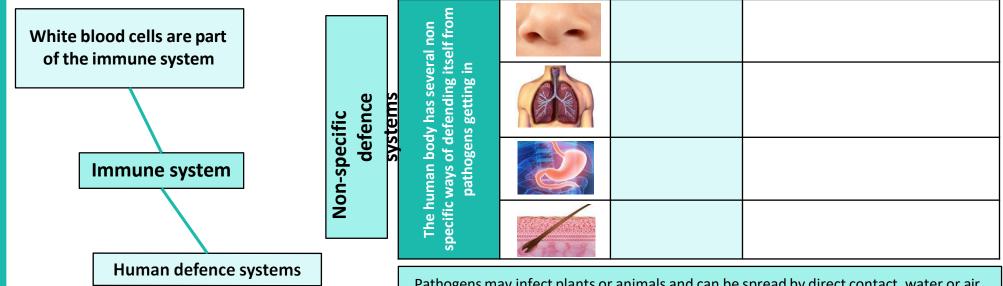


Pathogens may in	fect plants or ani	mals and can	be spread by c	lirect contact, water or air

Pathogen	Disease	Symptoms	Method of transmission	Control of spread	
Virus	Virus Measles Fever, red skin rash.		Droplet infection from sneezes and coughs.	Vaccination as a child.	
Virus	HIV	Initially flu like systems, serious damage to immune system.	Sexual contact and exchange of body fluids.	Anti-retroviral drugs and use of condoms.	
Virus	Tobacco mosaic virus Mosaic pattern on leaves.		Enters via wounds in epidermis caused by pests.	Remove infected leaves and control pests that damage the leaves.	
Bacteria	cteria Salmonella Fever, cramp, vomiting, diarrhoea.		Food prepared in unhygienic conditions or not cooked properly.	Improve food hygiene, wash hands, vaccinate poultry, cook food thoroughly.	
Bacteria	Bacteria Gonorrhoea Green discharge from penis or vagina.		Direct sexual contact or exchange of body fluids.	Use condoms. Treatment using antibiotics.	
Protists	Malaria	Recurrent fever.	By an animal vector (mosquitoes).	Prevent breeding of mosquitoes. Use of nets to prevent bites.	
Fungus	Rose black spot	Purple black spots on leaves.	Spores carried via wind or water.	Remove infected leaves. Spray with fungicide.	

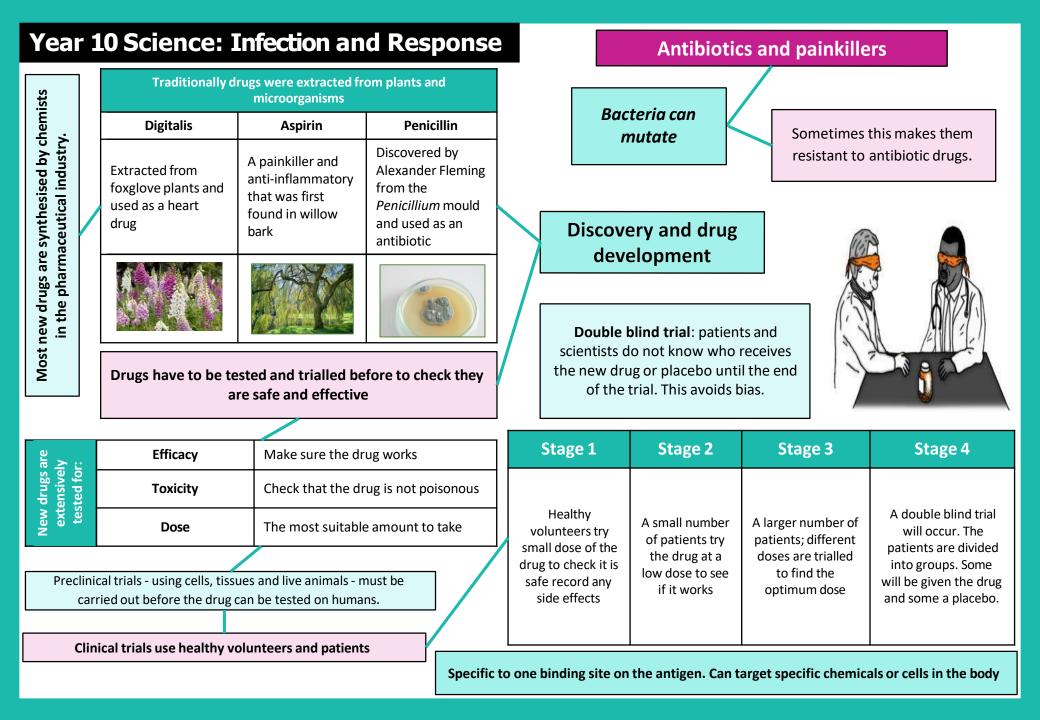
Year 10 Science: Infection and Response

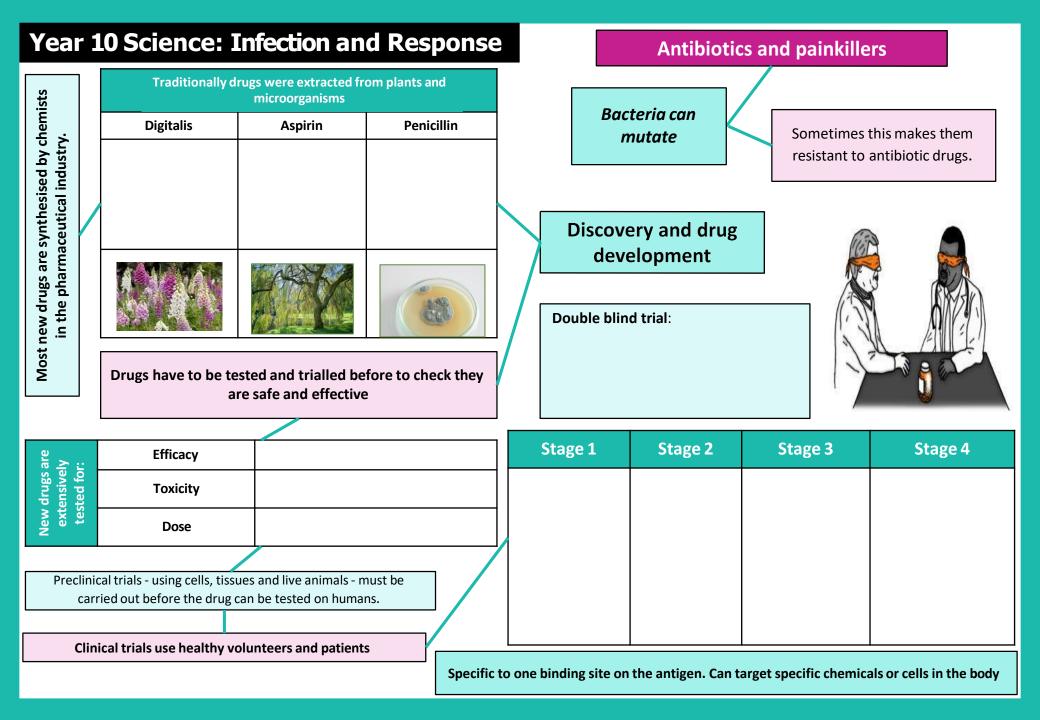
Pathogens are identified by white blood cells by the different proteins on their surfaces ANTIGENS.



Pathogens may infect plants or animals and can be spread by direct contact, water or air

Pathogen	Disease	Symptoms	Method of transmission	Control of spread
Virus	Measles			
Virus				
Virus				
Bacteria				
Bacteria				
Protists				
Fungus				



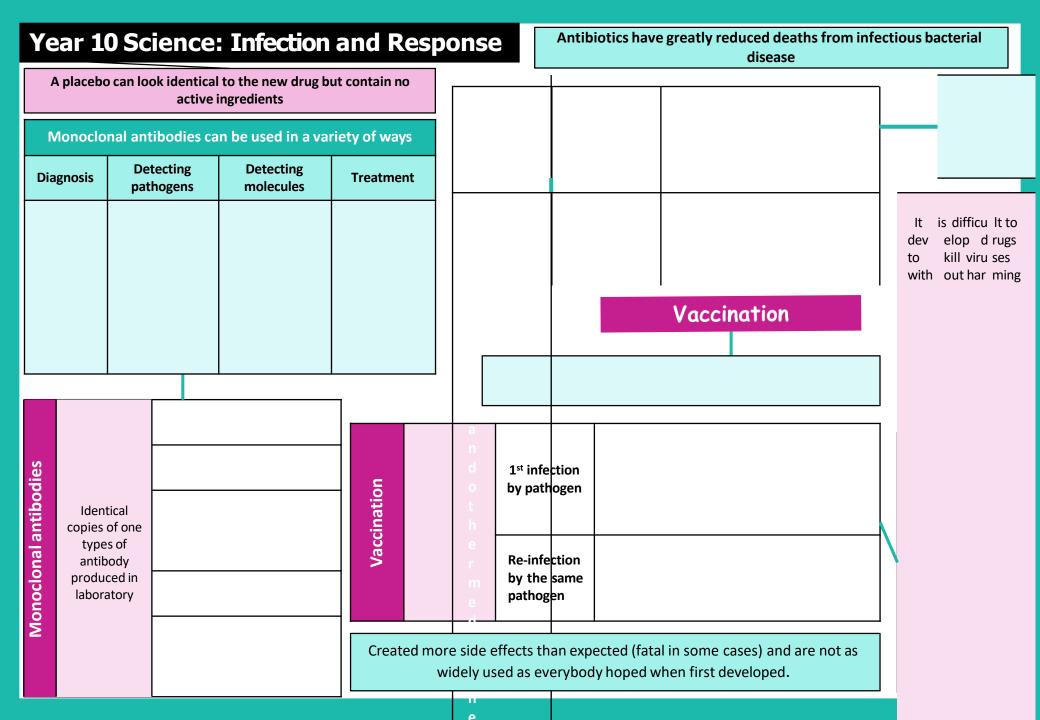


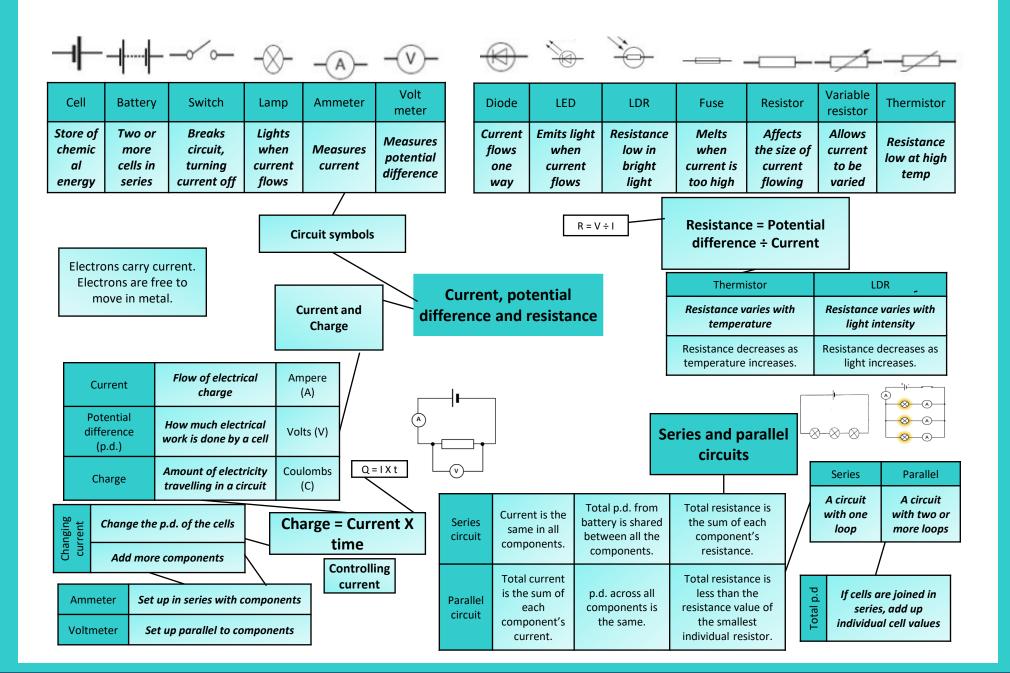
Year 10 Science: Infection and Response

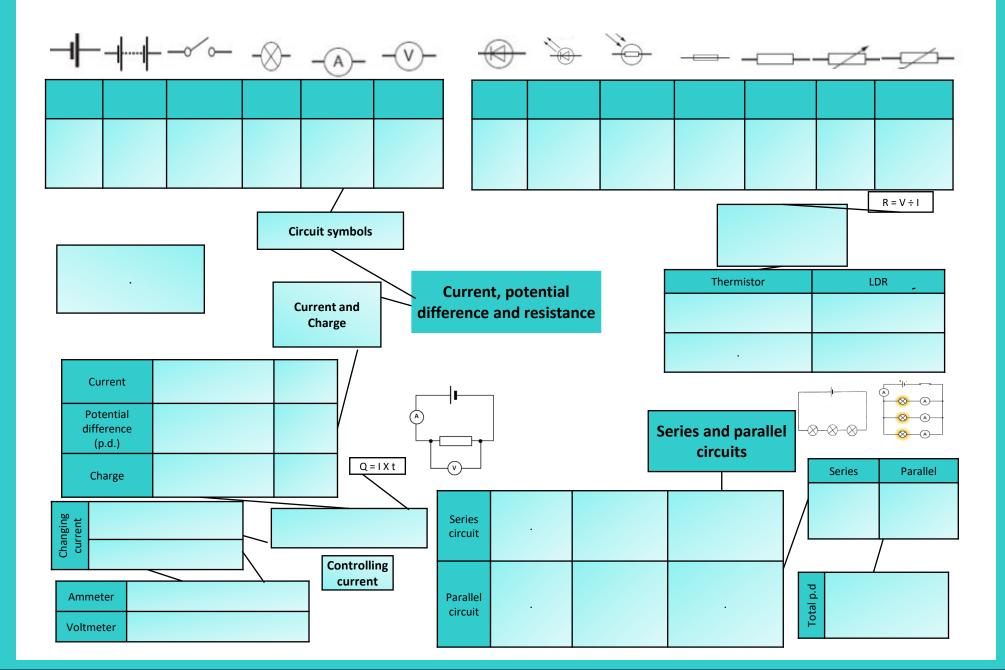
Antibiotics have greatly reduced deaths from infectious bacterial

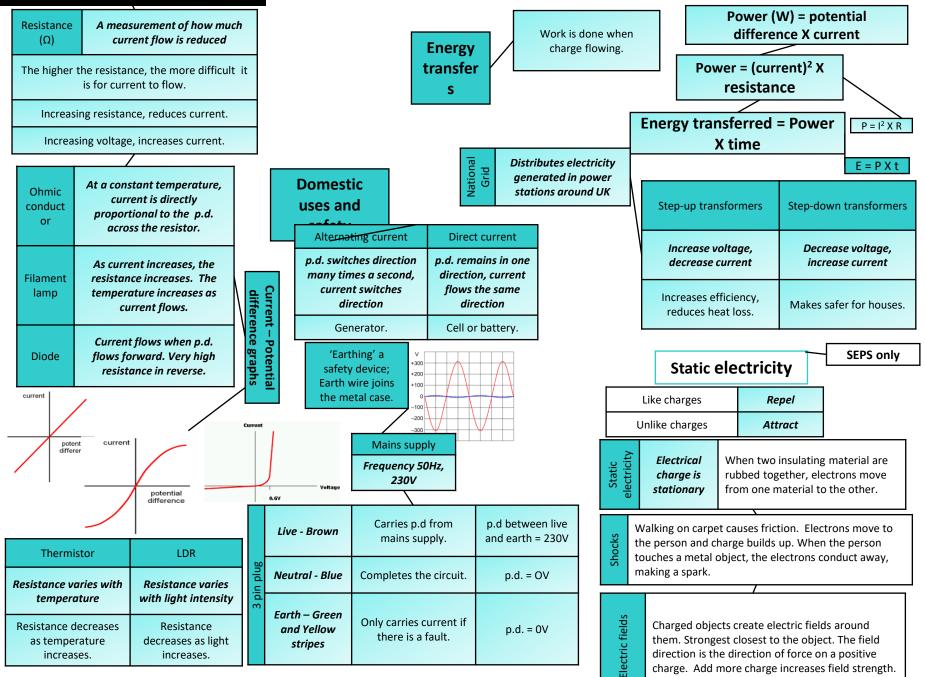


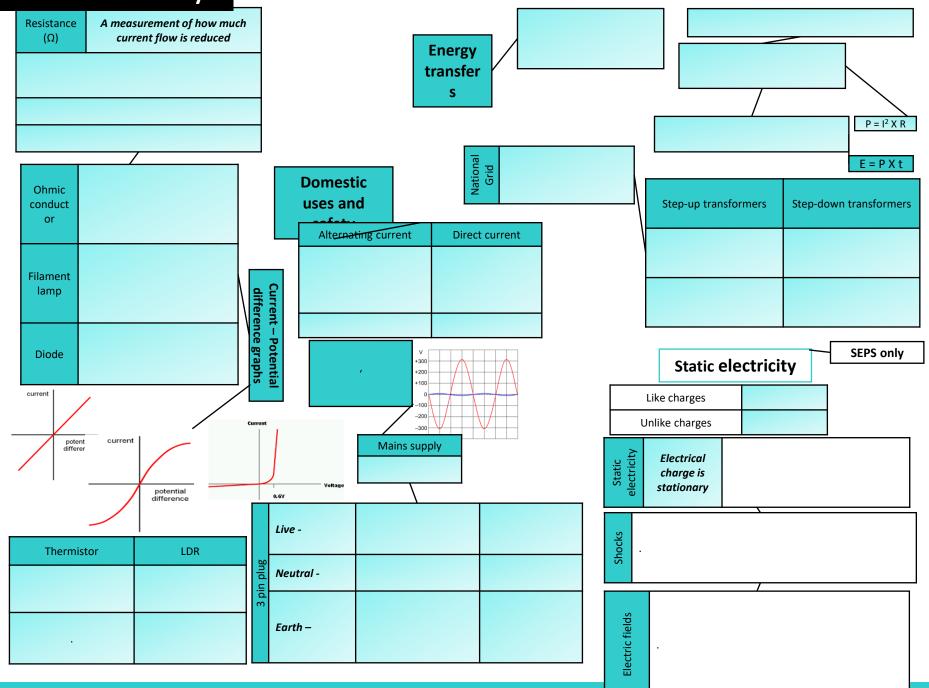
										disease					
	·	can look identical to the new drug active ingredients nal antibodies can be used in a v Detecting pathogens molecules					/5	Antibiotic		e.g. penicillin		Kill infective bacteria inside the body. Specific bacterial infections require specific antibiotics.		Antibiotics cannot be use to treat viral pathogens	
tes	g. egnancy st – easure	Can de small o	etect very quantities micals in	Fluorescent dye can be attached so it can be	rac sub tox che	Bound to radioactive substance, toxic drug or chemical Cancer cells		Painkillers and other medicines		e.g. aspirin, paracetamol, ibuprofen		Drugs that are used to treat the symptoms of a disease. They do not kill pathogens	It is difficult to develop drugs to kill viruses without harming body tissues		
the level of hormones		the blood		seen inside cells or tissues	are to bo	are targeted to normal body cells are unharmed		Γ	Used to	-		Vaccination ge proportion of the population e spread of a pathogen		because viruses live and reproduce inside cells	
				. A mouse is injected with			-								
Monoclonal antibodies	Iden	tical	antibodies	ocytes produce		ition	Sm amou	int of	1 st infection by pathogen		White blood cells detect pathogens in the vaccine. Antibodies are released into the blood.			likely to suffer of the harmful 's spread in a s prevented	
	copies type	of one s of	from the r with rapid	om the mouse and fused vith rapidly dividing mouse umour cells . The new cells are called ybridomas		Vaccination	dead or inactive form of the							kely to f the l s sprea	
	antib produ labora	ced in	4. The new			Š	patho		Re-infection by the same pathogen		White blood cells detect pathogens. Antibodies are made much faster and in larger amounts.			is un toms and it ition i	
W			5. The hybridomas divide rapidly and release lots o antibodies which are the collected			Created more side effects than expected (fatal in some cases) and are not as widely used as everybody hoped when first developed.							A person the symp disease popula		

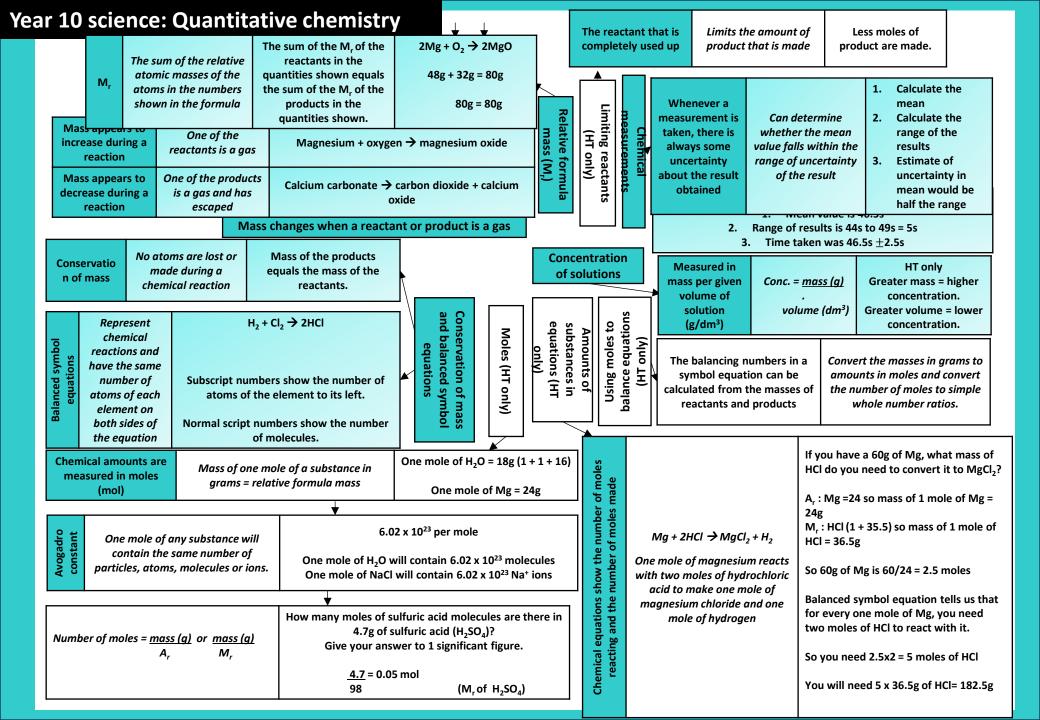


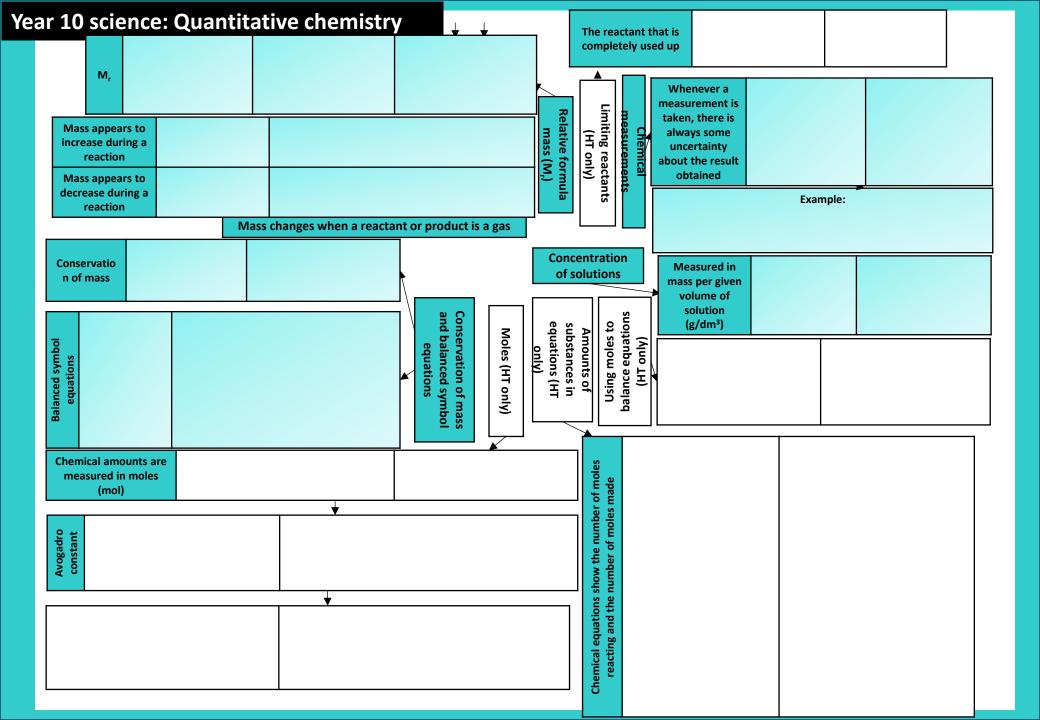


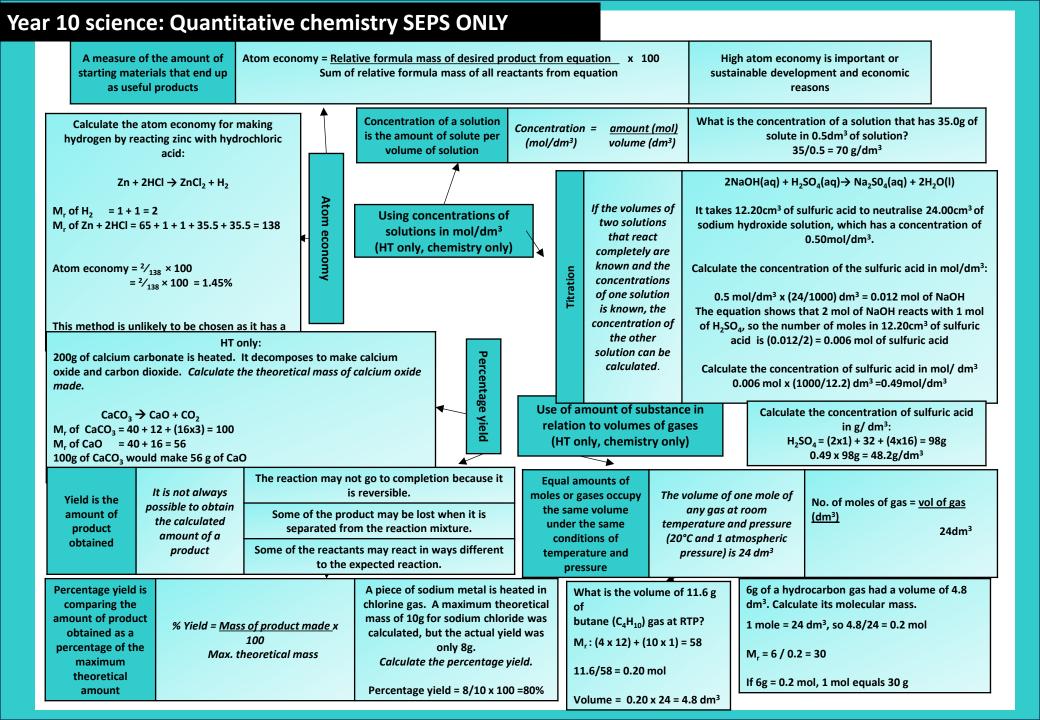




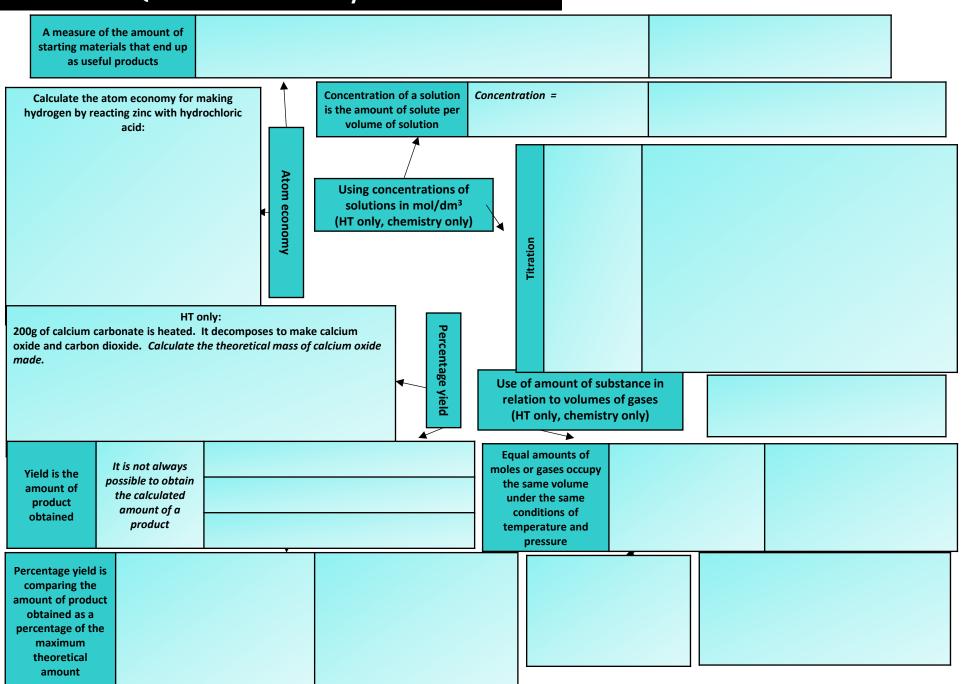




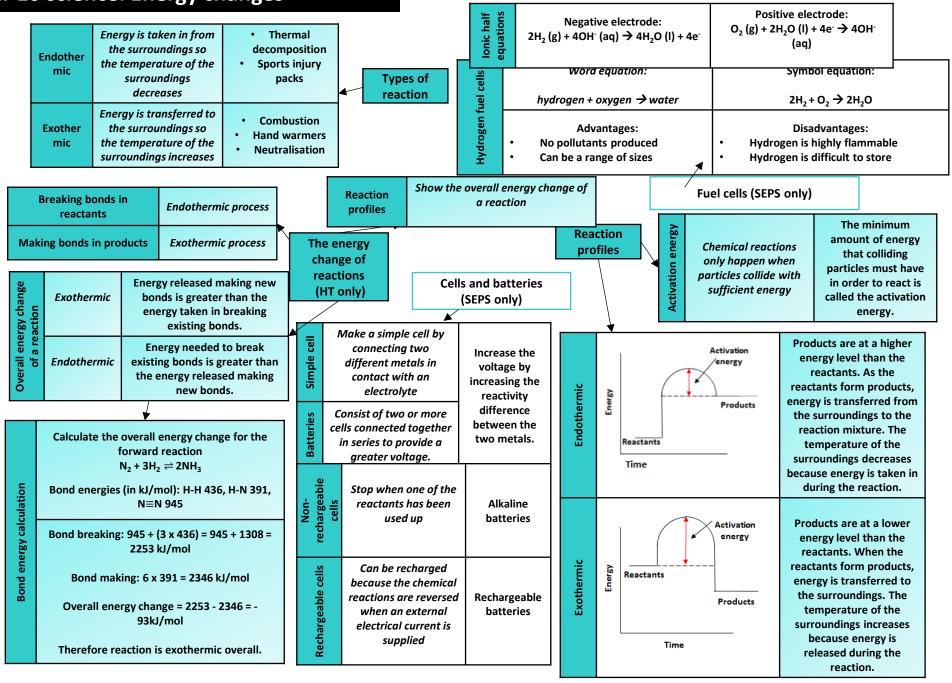


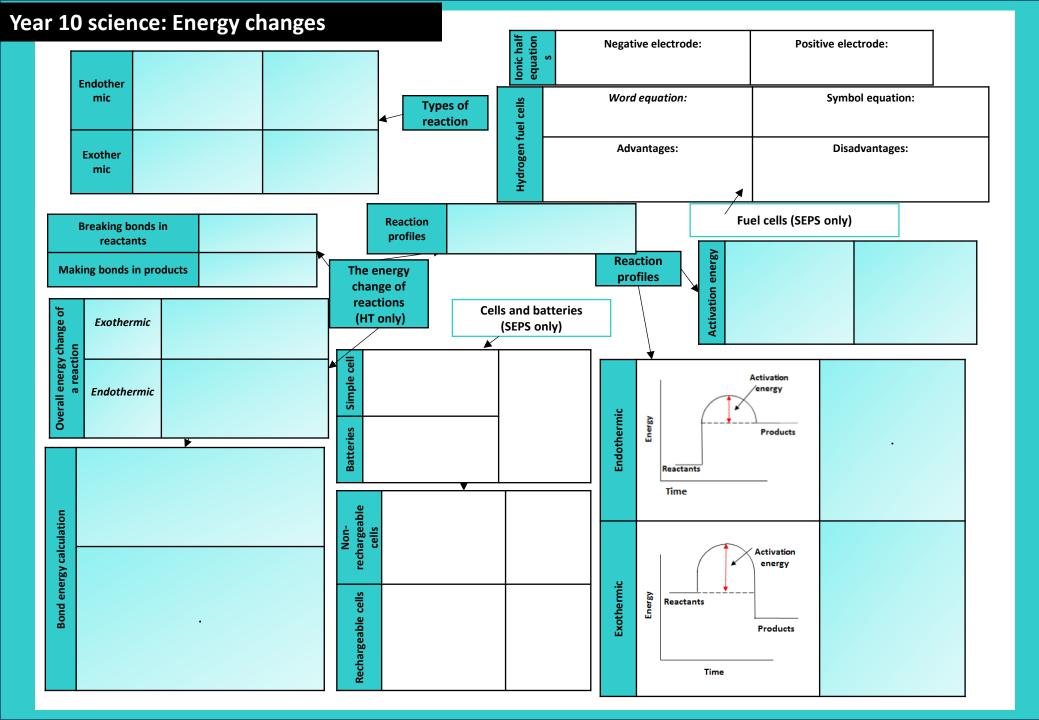


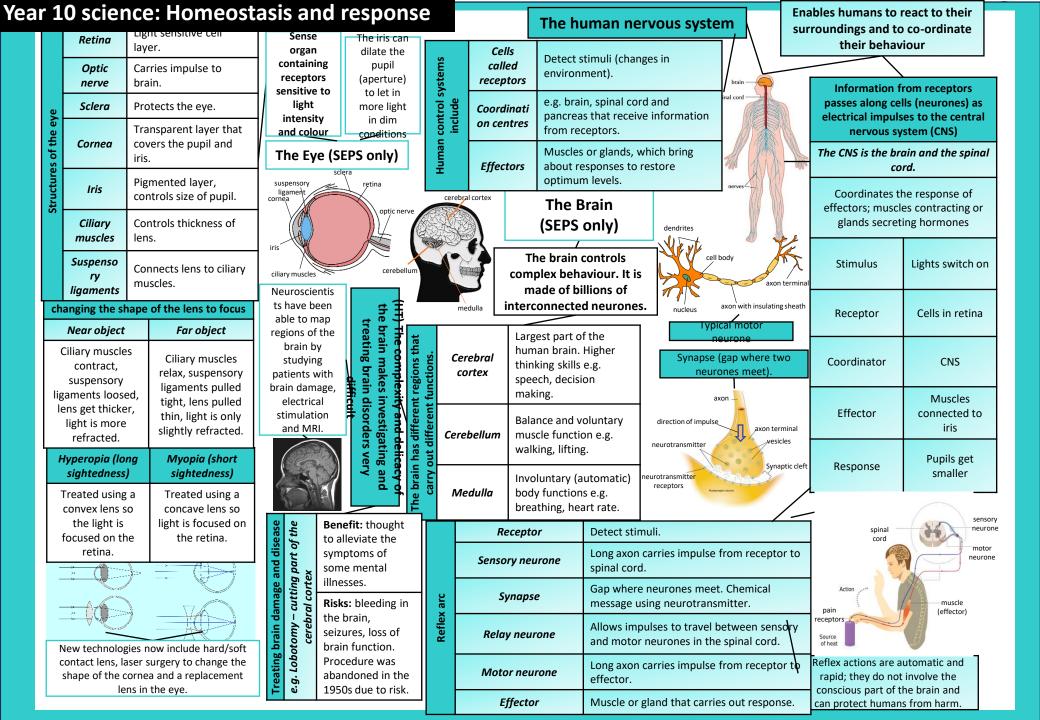
Year 10 science: Quantitative chemistry SEPS ONLY

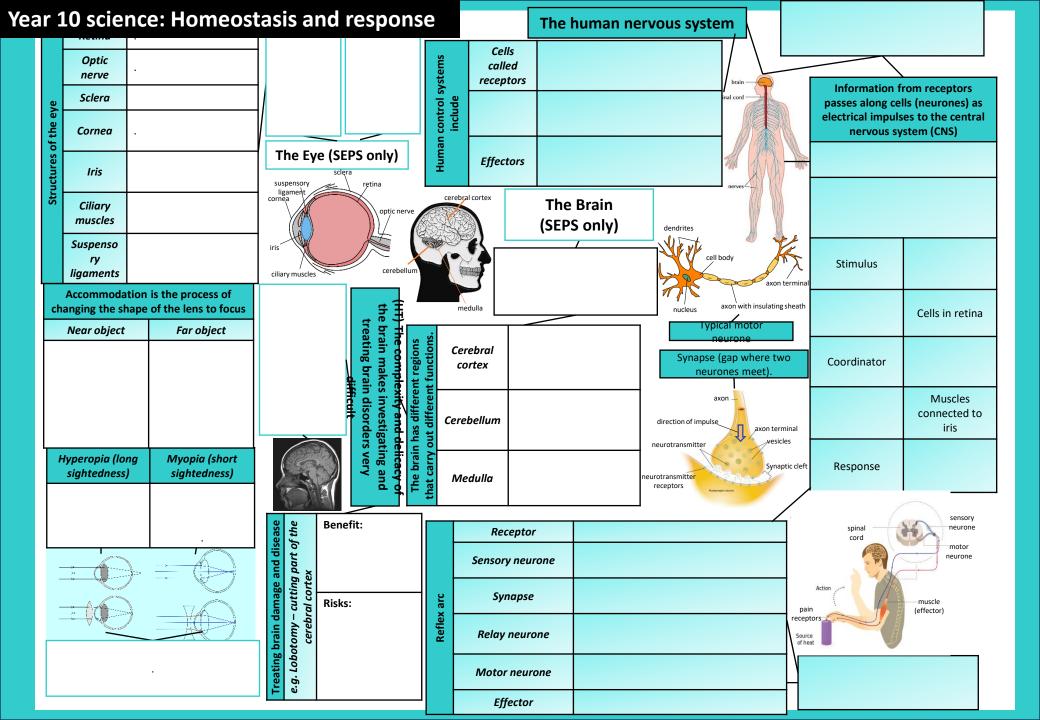


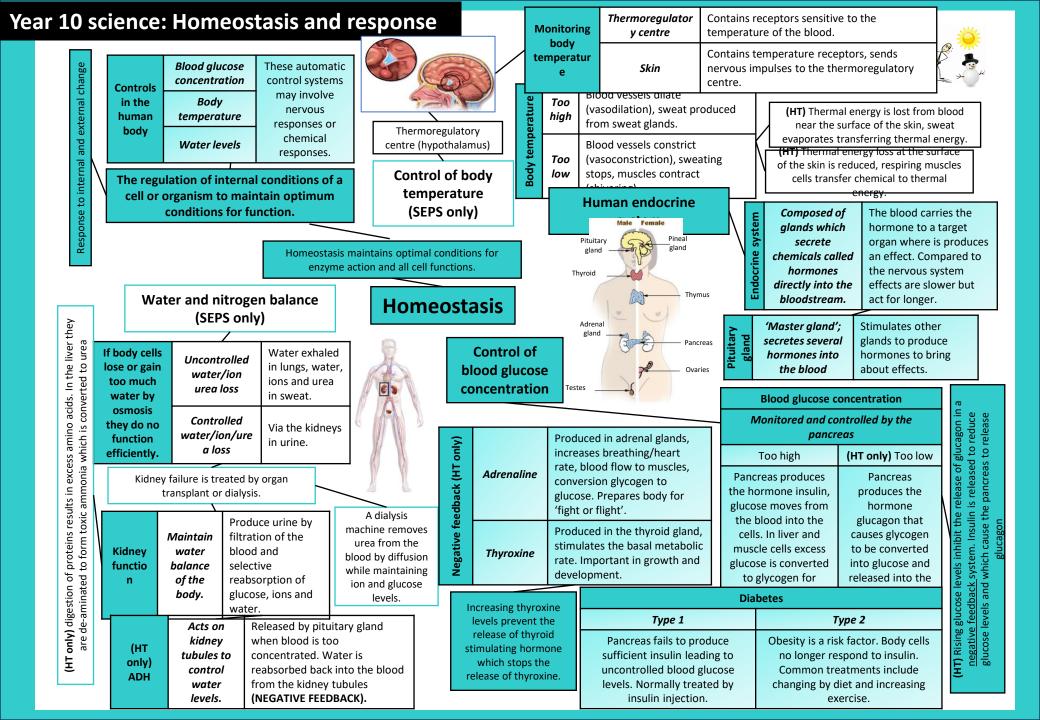
Year 10 science: Energy changes

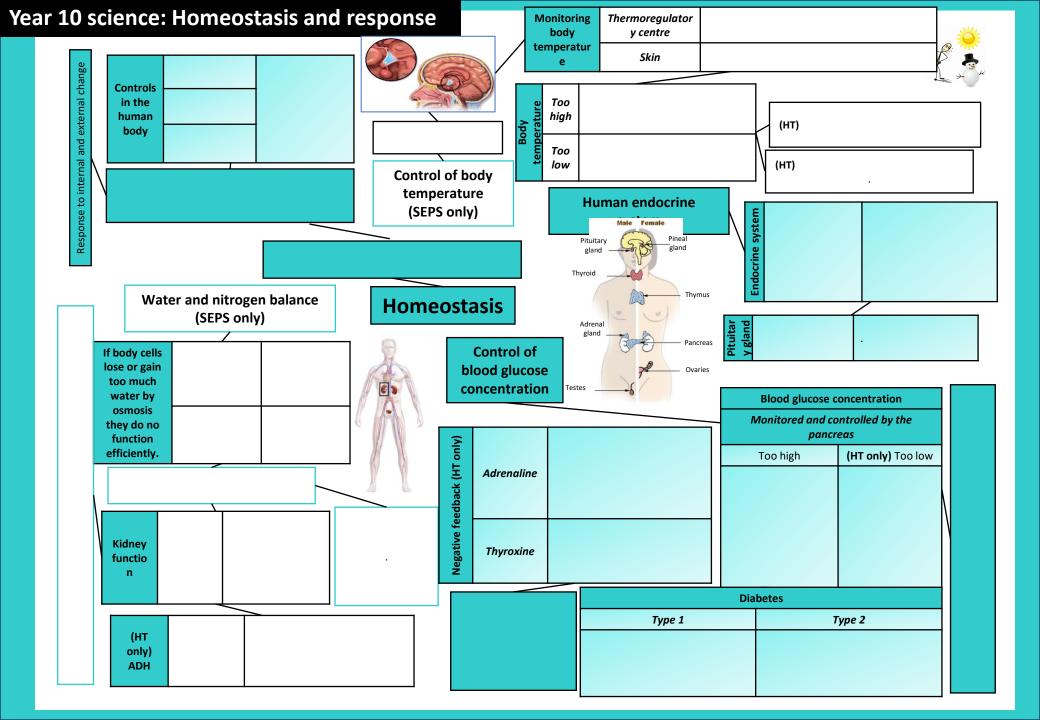












Year 10 science: Homeostasis and response

