

Year 11 Knowledge Organiser Term 1

2024

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Knowledge Organiser Haggerston School



Haggerston School Knowledge Organiser

Art Periods/ Movements	Characteristics	Chief Artists and Major Works	Historical Events
Baroque (1600–1750)	Splendor and flourish for God; art as a weapon in the religious wars	Reubens, Rembrandt, Caravaggio, Palace of Versailles	Thirty Years' War between Catholics and Protestants (1618–1648)
Neoclassical (1750–1850)	Art that recaptures Greco-Roman grace and grandeur	David, Ingres, Greuze, Canova	Enlightenment (18th century); Industrial Revolution (1760–1850)
Romanticism (1780–1850)	The triumph of imagination and individuality	Caspar Friedrich, Gericault, Delacroix, Turner, Benjamin West	American Revolution (1775–1783); French Revolution (1789–1799); Napoleon crowned emperor of France (1803)
Realism (1848–1900)	Celebrating working class and peasants; en plein air rustic painting	Corot, Courbet, Daumier, Millet	European democratic revolutions of 1848
Impressionism (1865–1885)	Capturing fleeting effects of natural light	Monet, Manet, Renoir, Pissarro, Cassatt, Morisot, Degas	Franco-Prussia n War (1870–1871); Unification of Germany (1871)
Post-Impressionis m (1885–1910)	A soft revolt against Impressionism	Van Gogh, Gauguin, Cézanne, Seurat	Belle Époque (late-19th-centu ry Golden Age); Japan defeats Russia (1905)
Self Quiz: 1. List art perio	ds/movements		tion of art history: ing of your hand in





Canova



Delacroix







- List art periods/movements in chronological order
- List their characteristics List key artists and major
- works associated with each movement
- List historical events which happened during those times

- 1. Create a drawing of your hand in one of the styles you've learned about from this knowledge organiser.
- 2. Create sketches of your surroundings (room, objects such as chairs, tables, books, your pencil case, etc), people in the room in a different art style.
- 3. Create a composition on your table (books, stationary, clothing) and sketch it in the style of one of the above mentioned art movements.
- 4. Every piece of work should be evaluated using art vocabulary. Compare your work to the artists' examples.

Art Periods/ Movements	Characteristics	Chief Artists and Major Works	Historical Events
Fauvism and Expressionism (1900–1935)	Harsh colors and flat surfaces (Fauvism); emotion distorting form	Matisse, Kirchner, Kandinsky, Marc	Boxer Rebellion in China (1900); World War (1914–1918)
Cubism, Futurism, Supremativism, Constructivism, De Stijl (1905–1920)	Pre– and Post–World War 1 art experiments: new forms to express modern life	Picasso, Braque, Leger, Boccioni, Severini, Malevich	Russian Revolution (1917); American women franchised (1920)
Dada and Surrealism(191 7–1950)	Ridiculous art; painting dreams and exploring the unconscious	Duchamp, Dalí, Ernst, Magritte, de Chirico, Kahlo	Disillusionmen t after World War I; The Great Depression (1929–1938); World War II (1939–1945) and Nazi horrors; atomic bombs dropped on Japan (1945)
Abstract Expressionism (1940s–1950s) and Pop Art (1960s)	Post–World War II: pure abstraction and expression without form; popular art absorbs consumerism	Gorky, Pollock, de Kooning, Rothko, Warhol, Lichtenstein	Cold War and Vietnam War (U.S. enters 1965); U.S.S.R. suppresses Hungarian revolt (1956) Czechoslovaki an revolt (1968)
Postmodernism and Deconstructivis m (1970–)	Art without a center and reworking and mixing past styles	Gerhard Richter, Cindy Sherman, Anselm Kiefer, Frank Gehry, Zaha Hadid	Nuclear freeze movement; Cold War fizzles; Communism collapses in Eastern Europe and U.S.S.R. (1989–1991)









Lichtenstein





Zaha Hadid

Meiosis halves the number of chromosomes Gametes are made in reproductive organs (in animals ovaries and testes)

Cells divide by meiosis to form gametes

Copies of the genetic information are made.

The cell divides twice to form four gametes each with single set of chromosomes.

All gametes are genetically different from each other.

Sexual reproduction involves the fusion of male and female gametes.

Asexual reproduction involves only one parent and no fusion of gametes.

Sperm and egg in animals.

Pollen and egg cells in flowering plants.

e.g. cloning of females only in an aphid population. Produced by meiosis. There is mixing of genetic information which leads to a variety in the offspring.

Only mitosis is involved. There is no mixing of genetic information. This leads to genetically identical clones.





Gametes join at fertilisation to restore the number of chromosomes

Meiosis

The new cell divides by mitosis. The number of cells increase. As the embryo develops cells differentiate.

Meiosis leads to non-identical cells being formed while mitosis leads to identical cells being formed

DNA and the genome

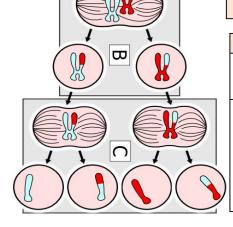
Sexual and asexual reproduction

AQA GCSE INHERITANCE, VARIATION AND EVOLUTION Part 1

proteins to do their job as enzymes, hormones or new structures such as collagen.

When the protein chain is complete it folds to form a unique shape. This allows





Genetic material in the nucleus is composed of a chemical called DNA.

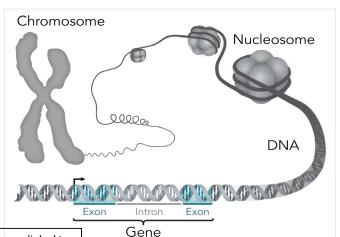
DNA structure

Polymer made up of two strands forming a double helix.

Contained in structures called chromosomes. A gene is a small section of DNA on a chromosome. Each gene codes for a sequence of amino acids to make a specific protein.

The genome is the entire genetic material of an organism.





Some
organisms use
both methods
depending on
the
circumstances

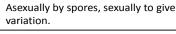
Malarial	
parasites	
	Ī

Fungi

Plants



Asexually in the human host but sexually in a mosquito.



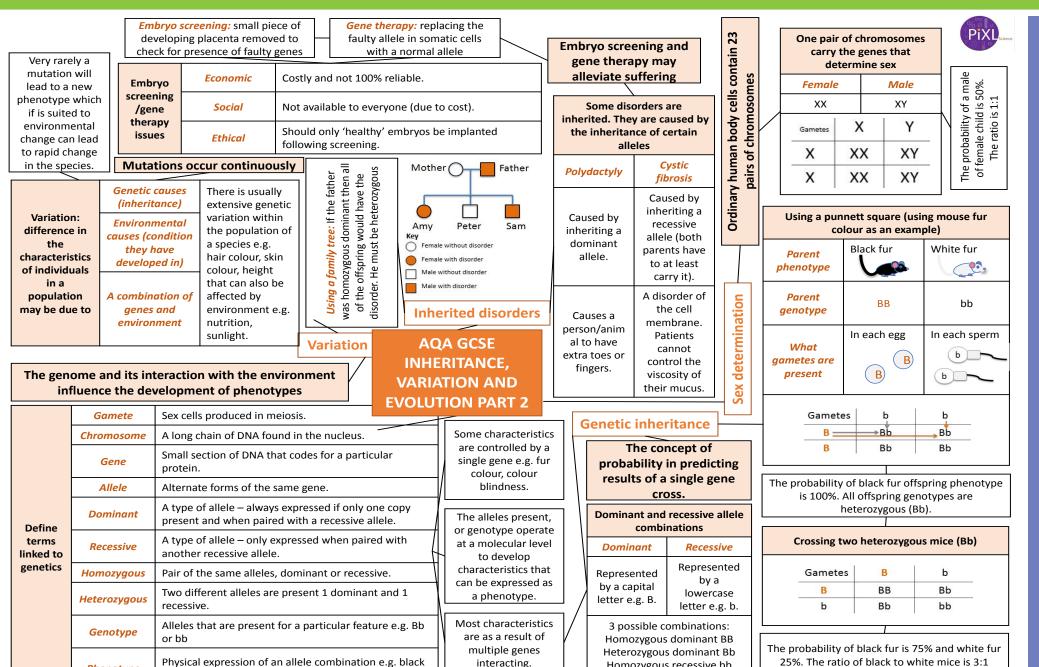
Produce seeds sexually, asexually by runners in strawberry plants, bulbs division in daffodils. The whole human genome has now been studied.

It is of great importance for future medical developments Searching for genes linked to different types of disease.

Understanding and treatment of inherited disorders.

Tracing migration patterns from the past.

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interacting.

Homozygous recessive bb

25%. The ratio of black to white mice is 3:1

fur, blonde hair, blue eyes.

Phenotype

Over time this results in the formation of new

The theory of evolution by natural selection.

Species of all livina things have evolved from simple life forms

up plasmid with or

White colonies

have plasmids

with the foreign

insert.

that first

developed 3

billion years

ago.

Through natural selection of variants (genotypes) that give rise to phenotypes best suited to their environment or environmental change e.g. stronger, faster. This allows for variants to pass on their genotype to the next generation.



Classification of living organisms

Use current classification data for living organisms and fossil data for extinct organisms

Humans have been doing this for thousands of years since

Selective breeding

Choosing parents with the desired

characteristics from a mixed

population

Chosen parents are bred together.

From the offspring those with

desired characteristics are bred

together.

Repeat over several generations

until all the offspring show the

desired characteristics.

Concern: effect of GMO on human

health not fully explored

Genetic engineering process (HT only)

1. Enzymes are used to isolate the required gene.

2. Gene is inserted into a vector -

Evolutionary trees are a method used by scientists to show how organisms are related



Selective breeding can lead to 'inbreeding' where some I rticularly prone to disease or inherited defects e.g. British

breeds **Bulldogs have**

breathing difficulties

Choosing characteristics

Desired characteristics are chosen for usefulness or appearance

Disease resistance in food crops.



Animals which produce more meat or milk.



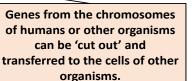
Domestic dogs with a gentle nature.



Large or unusual flowers.



Concern: effect of GMO on wild populations of flowers and insects.



Genetically modified crops (GMO)

that have genes from other organis

Crops

insect attack or herbicides. To increase

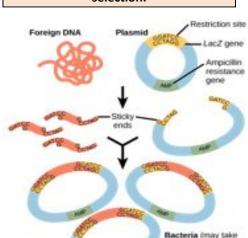
To become

resistant to

more

the yield of the crop.

A change in the inherited characteristics of a population over time through the process of natural



Evolution

If two populations of one species become so

formed two new species.

different in phenotype that they can no longer

interbreed to produce fertile offspring they have

AQA GCSE INHERITANCE VARIATION AND EVOLUTION PART 3

Sperm is taken from

a bull from a high

yield dairy herd

they first bred food from crops and domesticated animals. The process by

which humans breed plants/animals for particular genetic characteristics

> Selective breeding

Genetic engineering

Modern medical is exploring the possibility of GM to over come inherited disorders e.g. cystic fibrosis

Embryos are split into several smaller cells before they become specialised, each of which can grow into a new calf



Zygotes develop into

embryos in cow and then removed from the uterus

bacterial plasmid or virus. 3. Vector inserts genes into the required cells.

4. Genes are transferred to plants/animals/microbes at an early stage of development so they develop the required characteristics.

selection.

without the insert. or may not take up plasmid at all). Bacterial genome is

missing the lacZ gene Blue colonies

have plasmids

without insert.

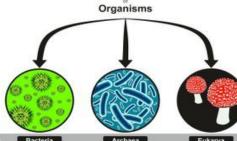
Charles Darwin 'On the Origin of the Species' (1859)

Published the theory of evolution by natural selection Slowly accepted; challenged creation theory (God), insufficient evidence at time, mechanism of inheritance not vet known.

Other theories e.g. Lamarckism are based on the idea that changes occur in an organism during its lifetime which can be inherited. We now know that in the vast majority of cases this cannot occur.

AQA GCSE INHERITANCE VARIATION AND EVOLUTION PART 4

Evidence for evolution



The full human classification

Classification of living organisms

Kingdom Animalia Chordata **Phylum** Carl Class Mammalia Linnaeus classified Order Primates living Hominidae Family things Genus Homo Species sapiens

Due to improvements in microscopes, and the understanding of biochemical processes, new models of classification were proposed.

Carl Woese

3 domain based on chemical analysis.

Archaea (primitive bacteria), true bacteria, eukaryota.

Organisms are named by the binomial system of genus and species. Humans are Homo sapiens

Fossils

'remains' of ancient organisms which are found in rocks

Parts of organism that have not decayed as necessary conditions are absent.

Parts of the organism replaced by minerals as they decay.

Preserved traces of organisms such as footprints, burrows and rootlet traces. Early forms of life were soft bodied and few traces are left behind and have been destroyed by geological activity, cannot be certain about how life began.

Fossils and antibiotic resistance in bacteria provide evidence for evolution.

Antibiotic resistant bacteria

Mutations produce antibiotic resistant strains which can spread

antibiotic resistant

Resistant strains are not killed.

Strain survives and reproduces.

People have no immunity to strain and treatment is ineffective.

Evolution is widely accepted. Evidence is now available as it has been shown that characteristics are passed onto offspring in genes.

Extinction

When no members of a species survive

Due to extreme geological events, disease, climate change, habitat destruction, hunting by humans.



Fossils tell scientists how much or how little different organisms have changed over time.

sensitive strain

When there are high number of bacteria, some of them have mutated and become antibiotic

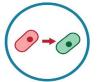




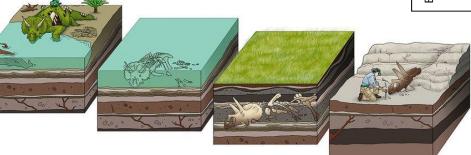
When antibiotic is added, the sensitive strains are killed. However, no effect against antibiotic resistant



Now, the antibiotic resistant strain can grow and multiply



Moreover, they can transfer drug-resistance to other bacteria and forming a group of antibiotic resistant



conditions for making

Farmers optimise

		Environment	The conditions surrounding an organism; abiotic and biotic.	Ī
7	Ecosystem	Habitat	Place where organisms live e.g. woodland, lake.	1
	Leosystem	Population	Individuals of a species living in a habitat.]
		Community	Populations of different species living in a habitat.	
l	Organisms	require a supply	of materials from their surroundings and from the	Ī
ı			other living organisms.	

Bacteria respire when breaking down dead organisms releasing CO₂.

reproducing

organisation

Levels of

Surviving

and

Competition

Interdependence

with each other for light, space, water and mineral ions.

Plants in a community or habitat compete

Animals compete with each other for food, mates and territory.

Species depend on each other for food, shelter, pollination, seed dispersal etc. Removing a species can affect the whole community

EXAMPLE: climate change is leading to more dissolved CO₂ in oceans lowering the pH of the water affecting organisms living there.

Abiotic

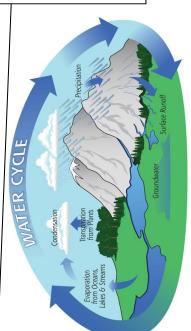
Moisture levels.



greys also carry a pathogen food for red squirrels. The grey squirrels to UK increased competition for EXAMPLE: Introduction of that kills reds.

Biotic

Anaerobic decay in biogas generators produces methane gas, used as a fuel.



CARBON CYCLE CO, taken in during photosynthesis.

Organisms respire releasing Dead organisms decayed by bacteria and fungi releasing carbon. Materials are recycled to provide the

building blocks for future organisms

Decomposition and material cycling

> Interdependence and competition

AQA GCSE ECOLOGY PART 1

Adaptations

Organisms adaptations enable them to survive in conditions where they normally live.

> Adaptations may be structural. behavioural or functional.

Abiotic and biotic

factors.

Non-living factors Living factors that that affect a affect a community community Living intensity. Availability of food. Temperature.

New predators Soil pH, mineral arriving. content.

Wind intensity and direction. New pathogens.

Carbon dioxide levels for a plant. One species

Oxygen levels for aquatic organisms.

outcompeting so numbers are no longer sufficient to breed

Adaptations

	Animals	Extremophiles
t	Polar bear in extreme cold artic	Deep sea vent bacteria



Plants

Cactus in dry, ho desert

No leaves to reduce water loss, wide deep roots for absorbing water.



Hollow hairs to trap layer of heat. Thick layer of fat for insulation.



Populations form in thick layers to protect outer layers from extreme heat of vent.

Factors affecting rate of decay

Temperature, water, oxygen

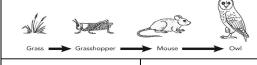
Increase the rate of decay. In enzyme controlled reactions raising the temperature too high will denature the enzymes.

organisms releases mineral ions can into the soil. Breakdown of dead

Food chains Feeding relationships in a community

Photosynthetic organisms are the producers of biomass for life on Earth

Primary Secondary Tertiary Producer consumer consumer consumer



All food chains begin with a producer e.g. grass that is usually a green plant or photosynthetic algae.

Consumers that kill and eat other animals are predators and those eaten are prev.

population

In a stable community the numbers of predators and prey rise and fall in cycles. Knowledge Organiser Haggerston School

Maintain a great biodiversity

Future of human

Ensures the stability of ecosystems

By reducing the dependence on one species on another for food, shelter, maintenance of the physical environment.

Many human activities are reduction biodiversity and only recently measures

Human activity can have a negative impact on biodiversity



Pollution kills plants and animals which can reduce biodiversity.



Biodiversity is the variety of all different species of organisms on Earth, or within an ecosystem

Biodiversity

have been taken to stop it.

Biodiversity and the effect of human interaction on the ecosystem

Waste management growth in human population and higher standard of living

Rapid

More resources used and more waste produced.

Pollution in water; sewage, fertiliser or toxic chemicals.

Pollution in air; smoke or acidic gases.

Pollution on land; landfill and toxic chemicals.

Experimental methods are used to determine the distribution and abundance of a species.

Quadrat Sampling	Organisms are counted within a randomly placed square	
techniques	Transects	Organisms are counted along a belt (transect) of the ecosystem.

AQA GCSE ECOLOGY PART 3



Waste, land use and deforestation

This conflicts with conserving peat bogs and peatlands as habitats for biodiversity and reduce CO₂ emissions.

The decay or burning of peat release ${\rm CO_2}$ into the atmosphere.

Middle value in a sample.

Most occurring value in a sample.

The sum of all the value in a sample

divided by the sample number.

species

Environment
al changes
affect the
distribution
of species

Availability of water

Composition of
atmospheric gases

Median

Mode

Mean

Example: Several species of bird migrate from cold winter conditions to warmer conditions closer to the equator.

Impact of environmental change (Biology HT only)

Large scale deforestation

In tropical areas (e.g. rain forest) has occurred to:

Provide land for cattle and rice fields, grow crops for biofuels.

Deforestation reduces biodiversity and removes a sink for increasing the amount CO₂ in the atmosphere. Global warming

Levels of CO₂ and methane in the atmosphere are increasing.

rise damages
delicate
habitats,
extreme
weather events
harm
populations of
plants and
animals.

Decreased land availability from

sea level rise.

temperature

Some of the programmes potentially conflict with human needs for land use, food production and high living standards.

Land use

Humans reduce the amount of land and habitats available for other plants, animals and microorganisms.

Building and quarrying.

Farming for animals and food crops.

Dumping waste.

Destruction of peat bogs to produce cheap compost for gardeners/farmers to increase food production.

Scientists and concerned citizens

Put in place programmes to reduce the negative impacts of humans on ecosystems and biodiversity

Breeding programmes for endangered species.

Protection and regeneration of rare habitats.

Reintroduction of field margins and hedgerows in agricultural areas where farmers grow only one type of crop.

Reduction of deforestation and CO₂ emissions by some governments.

Recycling resources rather than dumping waste in landfill.

U

These changes

geographic or

interaction.

might be seasonal,

caused by human

Subject Content	What students need to learn?
2.1.1 Business Growth	Methods of business growth and their impact:

Internal (Organic) Growth

Internal growth occurs when businesses choose to expand using their own initiative to increase sales. This could be:

- Through the creation of new products that have been researched
- Entering into new markets with an already existing product
- Changing the marketing mix (e.g. through advertisement)
- Take advantage of technological advancements to expand

External (Inorganic) Growth

Merger: An agreement between two firms who join to form a new company

Takeover: When one firm buys out the shares of another firm to incorporate them into their company

Advantages of Internal Growth

- More sustainable as slower
- Less risk than external growth
- Builds on a firm's existing strengths

Disadvantages of Internal Growth

- Growth based on the growth of the market
- Slow growth
- Hard to increase market share if a market leader

Sources of Finance

Selling Shares: Creating new shares that can be sold on the stock market

Retained Profit: Profit kept within the business that is not paid out in dividends to the shareholders. This source of finance is the best if the business wants to expand.

Bank Loan: This is an arrangement where the amount borrowed must be repaid over a clearly stated period, in regular instalments. The amount is paid back with interest.

Selling Assets: Selling items that the business owns to raise funds. For example, selling property or machinery.

Advantages of External Growth

- Quicker than internal growth
- May get rid of competition
- Can get new ideas and new expertise

Disadvantages of External Growth

- May be a clash of culture
- May be stopped by the competition authorities
- Increased costs in the short term

Public Limited Company

A company that sells its shares on the stock market

This makes it much easier to raise finance but makes the business prone to takeovers

Subject Con- tent	What students need to learn?
2.1.2 Changing Aims and Objectives	Why business aims and objectives change as businesses evolve: In response to: market conditions, technology, performance, legislation, internal reasons. How business aims and objectives change as businesses evolve

How Aims and Objectives Evolve

Focus on survival or growth: Some companies will need to change their objectives to focus on survival following an external factor e.g. a new competitor or economic collapse. Other firms will be currently successful but will want to capitalise on their position and aim to grow Entering or exiting markets: New markets such as China or in Africa can provide new opportunities for businesses. However some businesses will want to leave the market if they are struggling e.g. Morrison's leaving the convenience market

Growing or reducing the workforce: Growing businesses may need to hire new staff in order to meet the new demand for their product, however others may be more likely to cut staff to become more efficient or spend more on machinery

Increasing or decreasing the product range: Growing organically can only be achieved in two ways, get customers to buy more existing products or create new products to sell. New products can open up new customers and markets which can help increase market share. However it is also worth reducing product ranges if the products are becoming obsolete or if it is becoming difficult to manage all products on offer.

Business Aims and Objectives

Business aims are the broad targets than an entrepreneur has at the back of their mind

Business objectives are clear, measurable targets of how to achieve business aims. (the stepping stones for how they are going to achieve them)

S PECIFIC - Objectives should <u>specify</u> what they want to achieve. - i.e. one named person is responsible for delivering the objective

M EASURABLE - You should be able to <u>measure</u> whether you are meeting the objectives or not.

A CHIEVABLE - can the objectives be met?

R EALISTIC - Can you realistically achieve the objectives with the resources you have?



Aims and Objectives Change	Description:
Changing market conditions	Markets evolve over time. For example customers now want more luxury chocolate. As a result, Cadbury is now setting new objectives in relation to the
Changing technology	Due to advances in technology businesses have had to respond. For example Ted Baker's sales accelerated dramatically after introducing ecommerce.
Changing performance	If costs start to rise, profits will be squeezed. This is linked to the performance of the business or it could be the industry as a whole. When this happens
Changing legislation	Changes in legislation influence aims and objectives. Or example after Britain voted to leave the EU there was great uncertainty about what changes
Internal reasons for change	Aims and objectives are influenced by a change at the top of the business. If a boss is pushed out and a new one is appointed there will be changes to aims and objectives.

Subject Content	What students need to learn?
2.1.3	The impact of globalisation on businesses
Business and Global- isation	Barriers to international trade How businesses compete internationally

Impact of Globalisation on Businesses

Imports: Globalisation allows businesses to be able to access wider markets, which increases the choice of suppliers. This allows businesses to find the cheapest supplier and lower their overall average costs

Competition from overseas: Due to the increased ability to operate in multiple countries it is now easier to move into new markets. This makes sales easier but also is likely to increase competition which can make smaller firms struggle.

Exports: Companies can now increase their number of sales by trying to sell their products overseas, this can increase revenue for the business and help the government pay for the imports that are brought in.

Changing business locations: Some countries are cheaper to operate in than the UK because they have less laws in place or more raw materials on offer. Globalisation allows businesses to open factories in multiple countries to take advantage of the cheapest places, this lowers costs and allows businesses to maximise profits

Globalisation

Globalisation is the tendency for economies to trade increasingly with each other, creating opportunities for international and multinational companies.

Barriers to International Trade

Tariffs: These are taxes imposed on imported goods, this increases the cost of the import which may be passed onto the consumer in the form of higher prices.

Trade Blocs: This is an agreement between countries to trade freely with each other behind a tariff wall that discourages outsiders. This makes trade within the bloc cheaper and provides easier access to bigger markets whilst potentially reducing competition of non trade bloc countries. However it a company operates outside the trade bloc it is much more expensive to trade with all countries within the bloc.

How Businesses Compete Internationally

Use of internet and ecommerce: Small businesses are able to use the internet to access a much wider range of customers without the added cost of setting up physical shops in these countries. This makes it possible for small businesses to achieve global success on the back of one trend or even a short term fad. For larger businesses, the internet can help to lower costs and allows the business to become more dynamic.

Changing the Marketing Mix to Compete Internationally

If a business is now operating in multiple countries it will need to adapt its 4 Ps to accommodate. Product will need to be adapted to fit with the laws in different countries e.g. H+S. Pricing may be different in different countries to account for popularity. Promotion will change based on what the country uses most, e.g. TV advertisement is much bigger in the US. Place will change based on the development of the country, e.g. ecommerce is popular in the UK but will be less popular in Africa, so companies will need to adjust their distribution channels.

Name of the Trade Bloc	Trading Bloc Members	Main Features of the Bloc
EU (European Union)	27 members (after UK withdrawal) led by Germany and France	Free movement of goods and labour with a single market backed by common, EU-wide legislation
ASEAN (Association of South East Asian Nations)	Ten members including Thailand and Vietnam, but excluding China	Free movement of goods; started in 1965 with five members; members have enjoyed high economic growth
NAFTA (North American Free Trade Association)	America, Canada and Mexico	Free movement of goods; just three members; 2 rick and one much less so (Mexico)

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Subject Content	What students need to learn?
2.2.1	The design mix
Product	The product life cycle
	The importance to a business of differentiating a product/service

Design and the Design Mix

The design mix uses a pyramid diagram to encourage managers to decide on the main design priorities for a new product.

Economic manufacture: Making sure that the design allows the product to be made cost effectively

Function: The design must make sure that the product works well and works every time

Function

Aesthetics

Manufacture

Aesthetics: How well does the product appeal to the senses?

The Importance of Differentiating the Product/Service

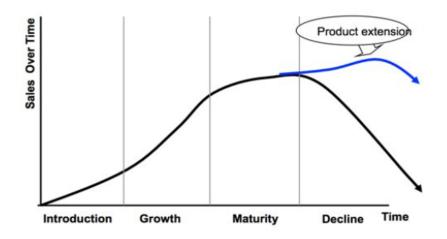
Product differentiation means making a product stand out from the competition. This can help the product become a market leader, may allow the business to charge higher prices or may encourage a loyal customer base.

The design of a product will play a crucial part in this process, either through the branding, the distinctive looks or making it appealing to wear, which increases brand awareness and ensures the product is different from its competitors.

Extension Strategies

Firms may try to prevent sales going into decline by using extension strategies, here are some examples of possible strategies:

- Find new uses for the product e.g. Lucozade
- Change the appearance, format or packaging e.g. Coca cola
- Encourage use of the product on more occasions e.g. cereal not just for dinner or ice cream in winder
- Adapt the product; make it new and improved e.g. iPhone 6S



Product Life Cycle

A product's life cycle is the amount of time a business expects the product to sustain profitable sales.

- Introduction: After the product has been well researched, tested and prepared, it
 will be launched. Sales are low because it is an unknown product, distribution
 will be low because suppliers will not know if it will be successful, costs will be
 high due to advertising and production costs. If the product has a USP there is
 likely to be a high price.
- Growth: The product becomes more known in the market. Sales, distribution and profits are likely to be rising. Costs will still be high due to advertising still being needed and the price is likely to still be high.
- 3. Maturity: the market has become more saturated with copycat products. Sales have reached a peak and are likely to flatten out, distribution will be wide as the product is more known and successful. Costs will be low as there will be less need for advertising and profits are likely to be high assuming the product is still popular compared to competitors
 - Decline: the product is no longer popular, it is not offering what customers want anymore. Sales and profits are declining and suppliers are no longer wishing to display the product. Businesses need to make a choice about whether to try an extension strategy or to scrap the product all together. Costs will depend on the level of advertising and profits are likely to little to none.

Subject Content	What students need to learn?
2.2.2	Pricing strategies
Price	Influences on pricing strategies; technology, competition, market segments and the product life cycle

Pricing Strategies

Broadly there are two different types of pricing:

- Pricing low for high volume but low profit margins
- Pricing high for low volume but high profit margins

The choice between these two will depend on a range of factors however the biggest influence will be branding. Strong brands are able to set their own prices, whereas weaker ones have to follow the lead set by others

Pricing Strategy for Different Market Segments

Mass Market

Mass market products are aiming their products at a wide range of customers and are likely to be experiencing high levels of competition. As a result pricing is likely to be ensure that they can compete. Due to the wide number of customers there is still a good likelihood of profit overall, even though profit per item will be low.

Examples include New Look, Primark, Lidl and Aldi.

Niche Market

A niche market is based on a particular type of customer who wants something different from the majority. Due to this difference there is likely to be less competition and customers will be more willing to pay more which ensures that although there are low sales volumes, profits can still be made.

Examples include Alpro or Jaguar



"I like it, but I'm looking for more of a status symbol. Any way you can double the price?"

How Technology Influences Pricing Strategies

Due to the access of ecommerce there is more ability to shop around and try to get the best deal on products, which means that firms have more competition than just their local area and need to be more price competitive.

On the other hand, ecommerce has also expanded the market making it easier to attract customers, this means that some businesses can charge more for their products because the demand is higher

Pricing Strategies at Different Stages of the Product Life Cycle

Introduction

Lots of businesses will choose a low price initially to encourage customers to try their product, especially if it is an unknown product or brand. If the product is popular the price will start to rise. However some businesses will start with a high price if they are looking to create an image of quality and expense rather than cheap. In addition products with good branding, especially technology will start expensive to ensure high profit margins from the keen before lowering the pricing for everyone else.

Growth

In the early stages most businesses will be looking to keep prices low to ensure sales continue to grow and increase prices once the growth is more established.

Maturity

When growth is at an end, new pricing decisions may be needed. If during growth prices were kept low to encourage sales there may be an incentive to raise prices to try and improve profit margins now that sales are no longer growing so fast. This may be important if new products are needed before the current product goes into decline, meaning investment.

Decline

During decline, profits will be falling, this means that firms need to make a decision about pricing. If an extension strategy is being planned such as adapting the product there may be a basis to increase the price. If there are loyal customers to the product but few new customers, the business may be able to increase prices assuming the loyal customers will still want the product. However some businesses may choose to put deals into place to encourage last ditch sales before it is taken off the market.

Subject Content	What students need to learn?
2.2.3	Appropriate promotion strategies for different market segments
Promotion	The use of technology in promotion

The Use of Technology in Promotion

Targeted Advertising Online

In 2015, UK spending on digital advertising far outstripped TV advertising. By 2017 more than half of all promotional spending in the UK was on digital advertising. Through the use of 'cookies' and other ways of capturing information advertisers today know much more about customers spending habits than previously. As a result advertising can be much better targeted, reducing waste and ensuring that firms are reaching their customers. For mass market products such as Coca Cola, TV advertising can still be cost effective due to the large number of customers they have. Targeting a much smaller customer range means online advertising is much more cost effective.

Viral Advertising via Social Media

It is easy to see why great video advertisements can 'go viral', in other words get passed on from person to person via Tweets and other social media. However it is difficult to get a campaign to go viral and many businesses have tried and failed. This is something that can be difficult to rely on as a form of advertising.

E-Newsletters

If you buy a cinema ticket online, you are likely to end up receiving the cinema's weekly newsletter. It will tell you about the major new films and offer discounts. From a companies point of view this form of advertising is virtually free. Some businesses will want to spend more on enewsletters in order to make them more interactive however it is only the initial cost that is likely to increase.







Promotional Strategy for Different Market Segments

Advertising

In the mass market the role of advertising is often to achieve name recognition and little more. For example Just Eat advertises widely on TV in order to foster trust with their customers and ensure that customers are willing to use them. All mass market businesses aim to achieve a level of brand awareness like Audi who are able to sell their products at a premium because of their brand. In niche markets TV advertising is less appealing due to the cost. For example G-Star RAW aim their products at under 25s and have focused on digital advertising to improve street credibility.

Sponsorship

Sponsorship means paying to have your brand or company name attached to an activity that has credibility with your customers. Often this involves sport or music. For example Red Bull have sponsored extreme sports and Formula 1 giving it a risk taker image and help it compete with Monster and Relentless. This is an expensive form of promotion and so is unlikely to be used by niche market products.

Branding

Branding means giving your product or service a name that helps recall and recognition and gives a sense of personality. Successful branding can mean that an image stays with people years, event decades after the reality has changed. For example Heinz are still the go to product for baked beans, even though there are competitors out there.

Product Trials

A product trial means giving potential customers a free taste—or longer trial—of your new product. This approach is used when there is known to be a hurdle that is likely to prevent customers from making a purchase of their own. This is very expensive, not just due to lost products but also due to the amount of labour required to ensure it works well. Social media can help to reduce this if videos are made and posted online. E.g. Pepsi and Coca Cola taste testing.

Special Offers

Special offers should be regarding as the last resort. No company wants to 'give away' product, as with a BOGOF offer. Special offers can undermine the brand even if there will be short term gains in profit. There are occasions when special offers work best; after Christmas, a new competitor has arrived, launching a new product and so adding it into a deal with your best selling product.

Subject Content	What students need to learn?
2.2.4	Methods of distribution; retailers and e-tailers (e-commerce)
Place	

<u>Definitions</u>

Distribution: How ownership changes as a product goes from producer to consumer

E-tailer: An electronic retailer; in other words purchasing electronically, either by e-commerce, or

m-commerce

Retailer: A shop, usually selling from a building in a high street or shopping centre

Methods of Retail Distribution

There are 3 main ways to get products from the producer to the consumer:

The Traditional Channel: The producer sells in bulk to wholesalers, who sell in smaller quantities to small and independent retailers. Without wholesalers, small shops couldn't exist as it would be too expensive for the producer to deliver to all the different shops.

The Modern Channel: This is very important for the grocery sector. The producer delivers huge quantities directly to a supermarket's distribution depot which sends the product to all local supermarkets. This can help the supplier get a higher profit because they are closer to the customer

The Direct Channel: Buying directly from the producer, e.g. the original mail order services or more currently using e-commerce or m-commerce.

Gaining Retail Distribution

First time entrepreneurs are often surprised to find that getting retail distribution is hard, and keeping it is harder. To gain distribution a company need to:

- Show that its brand offers something different for customers
- Show strength in marketing
- Provide a high level of profit to the retailer

To keep stock over a period of years the company will need to:

- Provide regular promotional support to keep sales moving
- Make sure sales continue to grow by advertising

E-tail Distribution or Ecommerce

There are two main types of e-commerce

- Direct sales from producer to consumer such as buying a MacBook computer direct online from Apple
- Sales through an e-tailer such as ASOS

Direct sales are great for the producer, who received the full retail price instead of having to make do with the wholesale price. E-tailers are more important today though. Their shops display products online and have efficient systems to make it easy to purchase, deliver and return products. Because the e-tailer is saving the cost of a physical shop they choose to live with the higher number of returns than a physical shop would get.

	Advantages	Disadvantages
Physical Retail Distribution	Customers can touch, hold, smell and wear products before buying You can choose exactly the type of product you want, e.g. food	Going shopping is time consuming, especially if shopping around is needed Choice can be overwhelming, leading to too much time being spent
Online Retail Distribution	The convenience of being able to order from home or on the move No time wasted driving, parking or shopping	Encourages a lazy nature, it might be better to go outside Delivery charges may increase prices

					Crude oil, and		play formula for H	r first fo	ur alkanes H H			The hydrocarbons in	Each fraction contains molecules with a similar	Pix
Crude oil	A finite resource	plankto in the m	ng mainly of n that was burionud, crude oil is of ancient				—C—H H thane (CH₄)		·Ċ—Ċ—H 	Fracti	ions	crude oil can be split into fractions	number of carbon atoms in them. The process used to do this is called fractional distillation.	
Hydrocarbons	These make up the majority of the compounds in crude oil	Most of hydroca alkanes.	these orbons are called	d	rbons		H H H C-C-C-H H H H pane (C ₃ H ₈)	Buta		Usii fracti	_	Fractions can be processed to produce fuels and feedstock for petrochemical industry	We depend on many of these fuels; petrol, diesel and kerosene. Many useful materials are made by the petrochemical industry; solvents, lubricants and polymers.	
General formula for alkanes	С _п Н _{2п+2}	TOT CAU	C ₂ H ₆ C ₆ H ₁₄				and feeds					stillation and nemicals	20 °C 150°C F. R. R. R. 200 °C	Butane & Propa
Alkanes to alkenes	Long chain alkanes	are crack alkenes.	xed into short			arboı	n compou		Hydrocarbon	In oi		ydrocarbon chains in crud in lots of different leng ne boiling point of the chai	gths. Crude Oil 370 °C	Kerose Diesel
Alkenes	Alkenes are hydro bond (some are crackin		luring the				fuels and eedstock		chains	Boilin point	g s c	on its length. During fra listillation, they boil and se different temperatures du	ctional eparate at 400 °C	Lubricat Parrafin
Properties of alkenes	and react with browning water changes from	creactive than alkanes omine water. Bromine m orange to colourless nace of alkenes.			nd alkenes	Co	Propertie	Durir hydrocar	g the	complete combustion of the carbon and hydroge oxidised, releasing carbo	n in	Asphalt		
Cracking	The breaking long ch hydrocarbo smaller cl	ain ns into	The smaller cl useful. Cracking various methologicatalytic cracking.	ng can ods incl	be done luding	e by			propene + et $C_3H_6 + C_3H_6$	hane	dioxide	Methane + oxygen	combustion of methane: □ carbon dioxide + water + en ₂ (g) □ CO₂ (g) + 2 H₂O (I	.
Catalytic crackin	The heavy from the he	ıntil	After vaporisation, the vapour is passed over a hot catalyst forming smaller, more useful			Alkenes and uses as polymers Used to produce p They are also use starting materials other chemicals, alcohol, plastic		ed as the s of man , such as	y	Boiling point (temperature at which liquid boils)	As the hydrocarbon chai increases, boiling point in	_		
Steam cracking	The heavy from heated u	ıntil	After vaporisation, the vapour is mixed with steam and heated to a very high temperature forming			Why do we crack long	Witho	detergent out cracking, i hydrocarbon ted as there is	ts. many of t s would b	be	Viscosity (how easily it flows) Flammability	As the hydrocarbon chai increases, viscosity inco	eases.	

long

chains?

demand for these as for the

shorter chains.

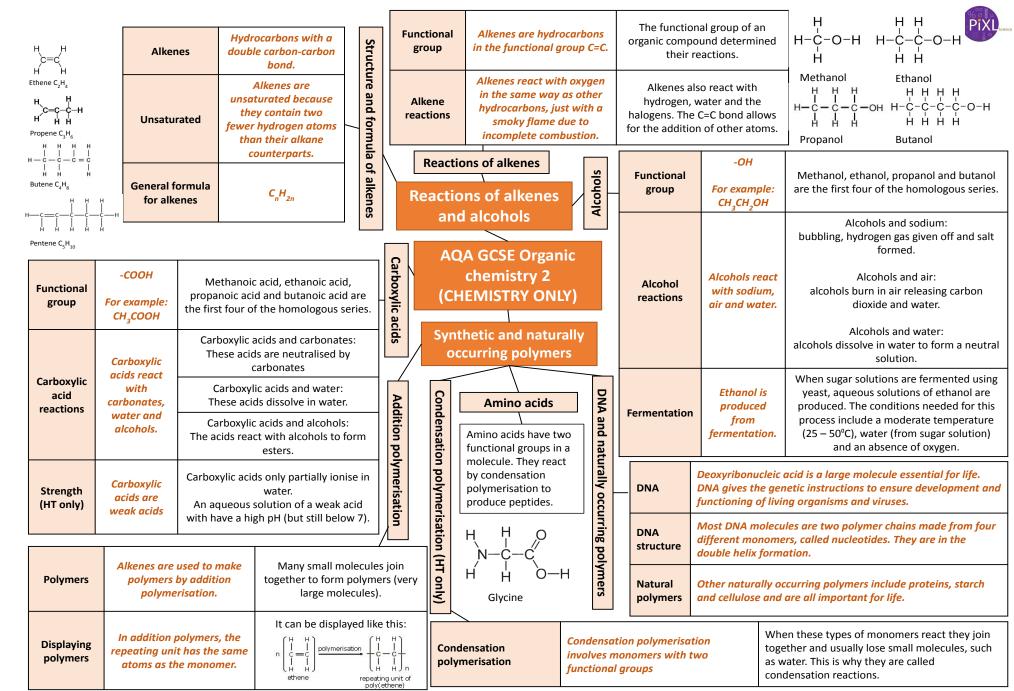
vaporised

smaller, more useful

hydrocarbons.

increases, flammability decreases.

(how easily it burns)





Gas	Percentage
Nitrogen	~80%
Oxygen	~20%
Argon	0.93%
Carbon dioxide	0.04%

Proportions of gases in the atmosphere

The Earth's early atmosphere

Algae and plants	These produced the oxygen that is now in the atmosphere, through photosynthesis.

carbon dioxide + water □ glucose + oxygen $6CO_{2} + 6H_{2}O \square C_{6}H_{12}O_{6} + 6O_{2}$

Oxygen in the atmosphere

First produced by algae 2.7 billion years ago.

Reducing carbon

dioxide in the

atmosphere

Formation of

sedimentary rocks

and fossil fuels

Over the next billion years plants evolved to gradually produce more oxygen. This gradually increased to a level that enabled animals to evolve.

		<u> </u>
Volcano activity 1 st Billion years	Billions of years ago there was intense volcanic activity	This released gases (mainly CO ₂) that formed to early atmosphere and water vapour that condensed to form the oceans.
Other gases	Released from volcanic eruptions	Nitrogen was also released, gradually building up in the atmosphere. Small proportions of ammonia and methane also produced.
Reducing carbon dioxide in the atmosphere	When the oceans formed, carbon dioxide dissolved into it	This formed carbonate precipitates, forming sediments. This reduced the levels of carbon dioxide in the atmosphere.

How oxygen increased How carbon dioxide decreased

Composition and evolution of the atmosphere

AQA GCSE Chemistry of the atmosphere

Carbon footprints

The total amount of greenhouse gases emitted over the full life cycle of a product/event. This can be reduced by reducing emissions of carbon dioxide and methane.

These gradually reduced the carbon dioxide Algae and plants photosynthesis.

These are made out of the remains of biological matter, formed over millions of years

Global climate

levels in the atmosphere by absorbing it for

Remains of biological matter falls to the bottom of oceans. Over millions of years layers of sediment settled on top of them and the huge pressures turned them into coal, oil, natural gas and sedimentary rocks. The sedimentary rocks contain carbon dioxide from the biological matter.

CO₂ and methane as greenhouse gases

> The greenhouse effect

Carbon dioxide,

water vapour

and methane

Greenhouse gases

Examples of greenhouse gases that maintain temperatures on Earth in order to support life

Radiation from the Sun enters the Earth's atmosphere and reflects off of the Earth. Some of this radiation is re-radiated back by the atmosphere to the Earth, warming up the global temperature.

Human activities that increase carbon

cause climate change.

Atmospheric	pollutants	from fuels
-------------	------------	------------

Source of atmospheric

Combustion of fuels	pollutants. Most fuels may also contain some sulfur.
Gases from burning fuels	Carbon dioxide, water vapour, carbon monoxide, sulfur dioxide and oxides of nitrogen.
Particulates	Solid particles and unburned hydrocarbons released when burning fuels.

Properties and effects of atmospheric pollutants

Common

atmospheric

pollutants

Toxic, colourless and odourless gas.

Not easily detected, can kill.

Cause respiratory problems in

humans and acid rain which affects

the environment.

Cause global dimming and health

problems in humans.

Effects of climate change

Rising sea levels Extreme weather events such as severe storms

> Change in amount and distribution of rainfall

Changes to distribution of wildlife species with some becoming extinct

Human activities and greenhouse gases

Carbon dioxide	dioxide levels include burning fossil fuels and deforestation.
Methane	Human activities that increase methane levels include raising livestock (for food) and using landfills (the decay of organic matter released methane).
Climate change	There is evidence to suggest that human activities will cause the Earth's atmospheric temperature to increase and

Carbon

monoxide

Sulfur

dioxide and

oxides of

nitrogen

Particulates

Earth's warmth, so resources food and tree		Used to provide warmth, shelter,		Natural resources and resou from agriculture provide: tir food, clothing and fuels.		
		food and trai	•	Finite resources from the Ea oceans and atmosphere are processed to provide energy materials.	·	
Chemist and resource	•	Research of techniques in agricultural industrial pro	nprove and	These improvements provid products and improve sustainability.	e new	,
Plastics	Normally ma stics using ethene f crude oil		from	However, the raw material ecan also be obtained from ethanol, which can be produduring fermentation. Indust are now starting to use a renewable crop for this produces.	uced ries	ż
LCAS	С	Life cycle sessments are arried out to assess the nvironmental impact of products	- Extr mat - Mar		Life cycle assessment	
Values	Allocating numerical values		,	udgments are allocated to ects of pollutants so LCA is	ment	

Allocating Value judgments are allocated to numerical values the effects of pollutants so LCA is to pollutant not a purely objective process. effects is difficult

Sterilising agents include chlorine, ozone and UV light. Using the Earth's resources and sustainable Potable water Using the Earth's resources and obtaining potable water **AQA GCSE Using** resources 1

> Life cycle assessment and recycling

Alternative methods of extracting metals (HT)

Ways of reducing the use of resources

Reduce, reuse and recycle	This strategy reduces the use of limited resources	reduces waste (landfill) and reduces environmental impacts.
Limited raw materials	Used for metals, glass, building materials, plastics and clay ceramics	Most of the energy required for these processes comes from limited resources. Obtaining raw materials from the Earth by quarrying and mining causes environmental impacts.
Reusing and recycling	Metals can be recycled by melting and recasting/reforming	Glass bottles can be reused. They are crushed and melted to make different glass products. Products that cannot be reused are recycled.

Potable water	Water of an appropriate quality is essential for life	Human drinking water should have low levels of dissolved salts and microbes. This is called potable water.
UK water	Rain provides water with low levels of dissolved substances	This water collects in the ground/lakes/rivers. To make potable water an appropriate source is chosen, which is then passed through filter beds and then sterilised.
Desalination	Needs to occur is fresh water is limited and salty/sea water is needed for drinking	This can be achieved by distillation or by using large membranes e.g. reverse osmosis. These processes require large amounts of energy.

Wastewater treatment

Waste water	Produced from urban lifestyles and industrial processes	These require treatment before used in the environment. Sewage needs the organic matter and harmful microbes removed.
Sewage treatment	Includes many stages	 Screening and grit removal Sedimentation to produce sludge and effluent (liquid waste or sewage). Anaerobic digestion of sludge Aerobic biological treatment of effluent.

Metals ores	These resources are limited	Copper ores especially are becoming sparse. New ways of extracting copper from low-grade ores are being developed.
Phytomining	Plants absorb metal compounds	These plants are then harvested and burned; their ash contains the metal compounds.
Bioleaching	Bacteria is used to produce leachate solutions that contain metal compounds	The metal compounds can be processed to obtain the metal from it e.g. copper can be obtained from its compounds by displacement or electrolysis.

polymers that melt when they are

heated.

Soda-lime glass, made by heating sand, sodium

Preventing corrosion Coatings can be added to metals to act as a barrier When a more reactive metal is used to coat a less reactive metal Coatings can be added to metals to act as a barrier Examples of this are greasing, painting and electroplating. Aluminium has an oxide coating that protects the metal from further corrosion. This means that the coating will react with the air and not the underlying metal. An example of this is zinc used to galvanise iron.	Corrosion	The destruction of materials by chemical reactions with substances in the environment	An example of this is iron rusting; iron reacts with oxygen from the air to form iron oxide (rust) water needs to be present for iron to rust.
Sacrificial reactive metal is with the air and not the underlying metal. An example of this is zinc used to	J	added to metals to	and electroplating. Aluminium has an oxide coating that protects the metal
		reactive metal is used to coat a less	with the air and not the underlying metal. An example of this is zinc used to

NPK fertilisers	These contain nitrogen, phosphorus and potassium	Formulations of various salts containing appropriate percentages of the elements.
Fertiliser examples	Potassium chloride, potassium sulfate and phosphate rock are obtained by mining	Phosphate rock needs to be treated with an acid to produce a soluble salt which is then used as a fertiliser. Ammonia can be used to manufacture ammonium salts and nitric acid.

Production and uses of NPK fertilisers

The Haber process – conditions and equilibrium

							0,00
		1	Alloys			ne of which must be a and Brass is an alloy a	a metal e.g. Bronze is an alloy PIXL of copper and zinc.
	Corrosion	<u>s</u>	Gold carats				nd zinc. The carat of the jewellery is s 75% gold, 24 carat is 100% gold.
	osio	eria			Alloys of iron, carbon and other metals.		
	and its	mat			High co	arbon steel is strong b	out brittle.
٦,			Steels	Low carbon steel is softer and easily shaped.			
ľ				Steel contain	ing chromium a	nd nickel (stainless) a	re hard and corrosion resistant.
	prevention	s are			Alum	ninium alloys are low	density.
	Ħ	6		Ceramics,			
	ă	Alloys		polymers and composites		Thermosetting	polymers that do not melt when they are heated.
		_	/	composites	1 Polymers		

AQA GCSE Using resources 2 (CHEM ONLY)

Using materials

The Haber process and the use of NPK fertilisers

The Haber process

The Haber	Used to manufacture		Ammonia is used to produce fertilisers
Polymers	Many monomers can make polymers	These factors affect the properties of the polymer. Low density (LD) polymers and high density (HD) polymers are produced from ethene. These are formed under different conditions.	
Ceramic materials	Made from clay	Made by shaping wet clay and then heating in furnace, common examples include pottery ar bricks.	
			ncrete (cement, sand and gravel)
	A mixture of materials put together for a specific purpose e.g. strength	M[res	DF wood (woodchips, shavings, sawdust and in)
Composite materials		tric	rosilicate glass, made from sand and boron oxide, melts at higher temperatures than da-lime glass.
		car	bonate and limestone.

Thermosoftening

Phosphate rock		
Treatment	Products	
Nitric acid	The acid is neutralised with ammonia to produce ammonium phosphate, a NPK fertiliser.	
Sulfuric acid	Calcium phosphate and calcium sulfate (a single superphosphate).	
Phosphoric acid	Calcium phosphate (a triple superphosphate).	

Pressure	The reactants side of the equation has more molecules of gas. This means that if pressure is increased, equilibrium shifts towards the production of ammonia (Le Chatelier's principle). The pressure needs to be as high as possible.
Temperature	The forward reaction is exothermic. Decreasing temperature increases ammonia production at equilibrium. The exothermic reaction that occurs releases energy to surrounding, opposing the temperature decreases. Too low though and collisions would be too infrequent to be financially viable.

1.4 WIRED AND WIRELESS NETWORKS

Key Terms

A network is where devices have been connected together so that they can share data and resources. Networks can be wired (Ethernet) or wireless (Wi-Fi).

Local Area Network (LAN)	Cover a small geographical area such as an office. Use their own infrastructure.			
Wide Area Network (WAN)	WANs connect LANs together over a large geographical area and make use of infrastructure from telecommunications companies.			
Bandwidth	The amount of data that can pass between network devices per second			
Server	A device that provides services for other devices (e.g. file server or print server)			
Client	A computer or workstation that receives information from a central server			
Peer to peer Network	All of the computers in the network are equal. They connect directly to each other.			
Standalone computers	A computer not connected to a network			

NETWORK HARDWARE

Network Interface Controller (NIC): built in hardware that allows a device to connect to a network.

Switches: connect devices on a LAN

Router: Transmits the data (packets) between the networks (eg:

the internet and your LAN)

Wireless Access Point (WAP): a switch that allows devices to connect wirelessly.

Cables: the cables in a network can be twisted pair cables, coaxial cables or fibre optic cables.

NETWORK PERFORMANCE

These factors can impact on network performance:

Bandwidth: The more bandwidth, the more data that can be transferred at a time.

Number of Users: Having a lot of people using a network means lots of data is being transmitted which can slow it down.

Transmission Media: Wired connections are faster than wireless. Fibre optic cables are faster than copper cables.

Wireless Factors: wireless can be affected by walls, distance, signal quality and interference from other devices.

Topology: The layout of a network can impact on its performance.

VIRTUAL NETWORKS

A virtual network is part of a LAN or WAN where only certain devices can "see" and communicate with each other usually connected remotely.

EXAM QUESTIONS

- 1. Give 3 items of hardware needed for a network
- Explain the difference between a peer-to-peer network and a client server network.
- The school's network has become very slow. Explain two different reasons why this might be.
- Evaluate the benefits of using a wired connection rather than a wireless one.

1.5 NETWORK TOPOLOGIES, PROTOCOLS AND LAYERS

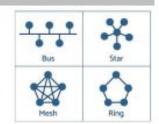
NETWORK TOPOLOGIES

A topology is the layout of a network. Bus: Slow network due to data collisions on the single backbone cable.

Star: If the central switch fails, the whole network fails. If one device fails, the network is fine.

Ring: Data moves in one direction which

prevents collisions. Only one device can send data at once. Mesh: Each device is connected to every other device so they can send data the fastest route. There is no single point where network can fail. Require lots of wire.



PROTOCOLS

Protocols are the rules for how devices communicate and transmit data across a network.

Every device has a MAC address so that it can be identified on a network. Eg: 98-1C-B3-09-85-15

IP addresses are used when sending data between networks. They can be static (permanent) or dynamic (different each time the device connects).

TCP/IP: Used to send data between networks in packets. Transmission Control Protocol (TCP): Splits the data into packets and re-assembles. Checks data is sent correctly.

Internet Protocol (IP): does the packet switching

Hyper Text Transfer Protocol (HTTP): for accessing websites

HTTPS: The secure version of HTTP

File Transfer Protocol (FTP): Moves files between devices Post Office Protocol (POP3): Retrieves emails from server. Once you download the email the server copy is deleted. Internet Message Access Protocol (IMAP): Retrieves email from server. Email is kept on server, you see a copy. Simple Mail Transfer Protocol (SMTP): sends emails.

Network protocols are divided into layers so that protocols with similar functions are grouped together.

Layer 4: Application

*Turn data into applications or websites ·HTTP, FTP, SMTP

Layer 3: Transport ·Control the flow of data

Layer 2: Network

·Direct data packets between networks

Layer 1: Data

*Sending data over a physical network •Ethernet

PACKET SWITCHING

- Data is split into packets and numbered in order.
- Each packet is send the fastest route across the internet by the routers. This means packets can take different routes and arrive out of order.
- The packet numbers are used to put them in order.
- If packets are missing a timeout message is sent
- Once all have arrived a receipt confirmation is sent to the device that sent them.

EXAM QUESTIONS

- 1. Explain why protocols are used
- Describe how packet switching works
- Evaluate the benefits and drawbacks of a mesh network.
- Draw topologies for bus, ring and star networks.
- Explain the difference between HTTP and HTTPS
- Explain the difference between POP3 and IMAP

KS4 Computer Science

Data packages and transfer: When data is sent over a network is broken into several equally sized pieces. The packet consists of 3 things. A Header; this contains the senders IP address, the recipients IP address, the packet number and total number of packets. A Payload; this is the actual data part. A Checksum; this is used to validate the data and check if the data is corrupted. The packages are sent from one router to the next. Each router calculates the quickest route for the data to take and sends it on. This helps data beat traffic congestion and hardware failures. When the package arrives at the destination computer it is verified using the checksum and re-assembled. If any packages are missing a requested is sent to the original computer for a copy to be re-sent.

Protocol layers: Each data package is bundled up with all the instructions needed for each Router to forward it on (these are called Protocols). Protocols are grouped together with other protocols that have a similar function or job. These are called layers. There are four layers.

Bandwidth: The amount of data that can be transferred over a network connection. Bandwidth is often shared across users on a network

Latency: Any interference, traffic or disruption on a network that delays data transfer

Protocol	Stands for	What is it used for						
HTTP Hyper Text Transfer Protocol HTTPS Hyper Text Transfer Protocol Secure FTP File Transfer Protocol POP3 Post Office Protocol (V3)		display websites from webservers A more secure version of HTTP used for banking and finance. Encrypts all information sent and received Used to access, edit and move files on a network e.g. to access files on a server from a computer						
						IMAP	Internet Message Access Protocol	Used to receive emails from a server. The emails are synchronised so the email is only deleted from the server when it is deleted from the device
						SMTP	Simple Mail Transfer Protocol	Used to send email messages





Network advantages: Can share data, work together, communicate and control services and security centrally Network Disadvantages: Over reliance on central devices (servers). Malware and Hackers

MAC address: Hardcode into NIC. 48 or 64 bit. Represented normally by 6 pairs of Hexadecimal digits. IP addresses are assigned to MAC addresses

Internet Protocol (IP): Every device on a network has an IP address. Normally IP addresses are dynamic – they change each time a device connects to a network. Some times they are static – can't be changed – for example for a server.

DHCP: Dynamic Host Configuration Protocol. Used by networks to assign IP addresses to computers / servers. When a computer needs to access a service it sends the computer name to the DHCP server and the DHCP server sends back the IP address so that data packets can then be sent. Its a huge directory lookup. There are a number of DHCP servers that store all the IP addresses for the Internet Web Pages. Each one has a copy in the case the others fail

DNS: Domain name server translates a web URL to an IP address so computers can find the correct web server online.

2.2 PROGRAMMING TECHNIQUES

DATA TYPES

Data Type	Definition	
String	Text eg: "Hello"	
Integer	Whole number eg: 32	
Float/Real	Decimal number eg: 1.2	
Boolean	Two values eg: true or false	
Character	A single character eg: b	

VARIABLES AND CONSTANTS

Variable - A value which may change while the program is running. Variables can be local or global.

Local Variable - a variable which can
only be used within the structure they
are declared in.

Global Variable - a variable which can be used in any part of the code after they are declared

Constant - A value which cannot be altered as the program is running.

OPERATORS

Operator/Function	Definition			
Exponentiation	Raises a number to a power eg: 2**3 OR 2 ^3 (=2³)			
Quotient/DIV	Gives the whole number after a division			
Remainder/MOD	Gives the remainder part of a division			
==	Is equal to			
! or <>	Is not equal to			
<	Is less than			
>	Is more than			

ARRAYS

One-Dimensional Arrays- this is like a list.

In this example an array has been created called students. The list can hold 3 items (as shown).

This command would print the second item (1) From the array. It would print "Dave".

array students [3]
students [0] = "Bob"
students [1] = "Dave"
students [2] = "Bob"

print(students[1])

Two-Dimensional Arrays - these are lists within lists (like a table)

Grades=[["Bob", "22%", "44%"], ["Dave", "85%", "100%"]]

The code above creates the 2D array. The code Below would output:

"Bob's first test score was 22%"

0 1 2 0 Bob 22% 44% 1 Dave 85% 100%

print("Bob's first test score was " + Grades [0, 1]

2.2 PROGRAMMING TECHNIQUES CONTINUED

PROGRAMMING CONSTRUCTS



A Sequence is when there are programming steps that are carried out one after another.



Selection is where there are different paths in your code eg: IF, ELIF, ELSE



Iteration is when there is repetition (loops) in code. This could be a WHILE loop (do something WHILE a condition is met) or a FOR loop (do something for a set number of times)

This count-controlled loop would print "Hello World" 8 times.:

for i=0 to 7
print ("Hello")
next i

These condition controlled loops would check if a password's correct:

while answer != "letmein123"
 answer=input("Enter password")
endwhile

do
 answer=input("Enter password")
until answer=="letmein123"

STRING MANIPULATION

The characters in a string are numbered starting
 o r d with position 0.

Function	Purpose			
x.length	Gives the length of the string			
x.upper	Changes the characters in the string to upper case			
x.lower	Changes the characters in the string to lower case			
x[i]	Gives the character in position i. Eg: x[2] = "r"			
x.substring(a,b)	Gives the characters from position a with length b. Eg: x.subString(1,2) = or			
+	Joins (concatenates) two strings together			

FILE HANDLING

Myfile=openRead("myfile.text")	Opens the file in read mode		
Myfile=openWrite("myfile.text")	Opens the file in write mode		
Myfile.writeLine ("Hello")	Writes a line to the file		
Line1=myfile.readLine()	Reads one line of the file		
Myfile.close()	Closes the file		
endOfFile()	Used to determine the end of a file		

IF/ELSE AND SWITCH/CASE FOR SELECTION

IF ELSE	SWITCH/CASE		
<pre>If choice == "a" then print("You chose A") elseif choice=="b" then print("You chose B") else print("Unrecognised choice")</pre>	Switch entry: case "A": print("You chose A") case "B": print("You chose B") default: print("Unrecognised choice")		

2.2 PROGRAMMING TECHNIQUES CONTINUED

SUB PROGRAMS

Procedures are a set of instructions stored under a name so that you
can call the procedure to run the whole set of instructions.
A function is like a procedure but always returns a value.
Parameters are variables used to pass values into a function or
procedure.

A procedure with parameters	A procedure without parameters		
procedure intro (name)	procedure intro ()		
<pre>print("Hello " +name)</pre>	print("Hello")		
print("Welcome to the game")	print("Welcome to the game")		
endprocedure	endprocedure		
TOTAL STATE OF STATE	T007E/05-05-05-107		

SQL (Structured Query Language)

SQL is the language used to manage and search databases.

Example	What it does
SELECT name, age FROM students	Displays the name and age of everyone in the students table
SELECT name FROM students WHERE gender=male	Displays the name of everyone in the students table who's gender is male
SELECT name FROM students WHERE name LIKE "% Smith"	Displays the students' names that end with Smith.
SELECT name FROM students WHERE gender=male AND attendance > 90	Displays the students who are male and have an attendance of more than 90.
SELECT * from students	Selects all of the fields from the students table
	SELECT name, age FROM students SELECT name FROM students WHERE gender=male SELECT name FROM students WHERE name LIKE "% Smith" SELECT name FROM students WHERE gender=male AND attendance > 90

RECORDS

Records are a data structure used to store a collection of data. They can store information of different data types. Field = each item in a record is a field. Each field has a name and data type.

A record can be created like this:

record students int student_number string student_name bool passed_test endrecord

Data can be assigned using variables:

Student1=students(1,"Bob Jones", True)
Student2=students(2,"Steve Smith", False)
Student3=students(3,"Sally Roberts", True)

The whole record can be accessed using the variable name:

print(Student1)

(1, "Bob Jones", True)

or part of a record can be accessed:

print(Student3.student_name)

Sally Roberts

Vocabulary of Voice

Monotone - One tone

Clarity – All words are audible and enunciated (said fully and clearly)

Volume - Loud or quiet

Accent – Changes in way you say words depending on where you live and/ or social class

Pace (speed), pause (stopping for a moment) and pitch (high or low)

Emphasis - making certain words stand out

Intonation – The rise and fall of the voice

Tone – the feeling in your voice

Component 1 Questions

What was your initial response to the stimuli and what were the intentions of the piece?

What work did your group do in order to explore the stimuli and start to create ideas for performance?

What were some of the significant moments during the development process and when rehearsing and refining the work?

How did you consider genre, structure, character, form, style and language throughout the process?

How effective was your contribution to the final performance? Were you successful in what you set out to achieve?

Genre - a category or 'type' given to plays based upon the conventions used e.g. tragedy, comedy, farce and melodrama.

Structure –The arrangement of, and relationship between, the parts of a play e.g. scenes, acts and cyclical.

Character - a person portrayed in a drama, novel, or other artistic piece.

Form and style - Drama techniques

Language - Words

GCSE DRAMA - COMPONENT 1

Vocabulary of Physicality

Every - Eye contact: Looking at the audience or another performer

Friday - Facial expressions: using your face to express feelings

My -Movement: moving your body/ body parts from one place to another

Naughty - Non-verbal communication: communicating meaning without using words

Brother - Body language: using your body to communicate meaning

Puts – Pace (speed) and pause (stopping for a moment)

Grandma's - Gesture - the way you move your hands

Massive - Mannerisms: something someone does with face or body repeatedly

Slippers - Stillness: no movement

Sentence Stem

As a performer,

As a director,

As a designer,

Describe - to use drama words to create a picture of what you did/ saw.

When we/ I/ they ___ (link to "extract" and describe the drama).

Analyse – in depth understanding drawing out layers of meaning.

Evaluate - a well justified judgement.

This effectively communicates (explain/ analyse the drama with link to purpose/ intentions) to the audience.

Challenge: Vary evaluative word by identifying what it made the audience think and feel e.g. shocking.

Self Quiz - LOOK, COVER, WRITE, CHECK & CORRECT

Use the acronym and mnemonic to help you remember key vocabulary and definitions.

Use the definitions to ensure you understand the questions you will answer in your portfolio.

Think about recent practical work, use the sentence stems to describe, analyse and evaluate the process and performance.

D Z Z

GCSE Drama - Theatre

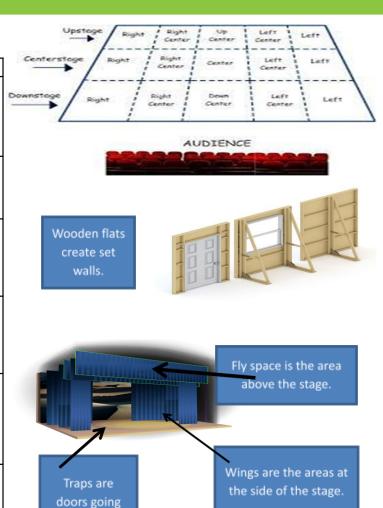
Stage Type	What does it look like?	Advantages and disadvantages	
Proscenium arch	TOTAL TOTAL CONTRACTOR OF THE PARTY OF THE P	Advantages: Excellent sight lines, excellent staging and s possibilities, traditional form of theatre. Disadvantages: Audience feel removed because of fourt wall, set can be limited to existing structure.	
End on		Advantages: Excellent sight lines, more inclusive experience than PA for the audience. Disadvantages: Quite minimal so limits set	
Thrust		Advantages: Audience have an immersive and inclusive experience, visually interesting. Disadvantages: sight lines and limited set and staging.	
Theatre in the round		Advantages: Audience have an immersive and inclusive experience, visually interesting. Disadvantages: sight lines and limited set and staging.	
Traverse		Advantages: Audience have an immersive and inclusive experience, visually interesting, audience can see each other Disadvantages: sight lines mean audience might see two different shows, limited set and staging.	
Promenade		Advantages: Audience have an immersive and inclusive experience, locations can complement the work, an alternative theatre experience. Disadvantages: non-linear, fragmented plot, break intension.	

Self Quiz: LOOK, COVER, WRITE, CHECK & CORRECT

List the stage types and describe the audience position.

Identify advantages and disadvantages for both.

Draw and label a stage



under the stage floor.

Theatre Lighting

1. Lanterns and lighting states	2. Lighting and lighting angles	3. Colour and effects
Fresnel – A common lantern with soft edges. A series of fresnels can evenly cover the stage with light to create a 'wash'. Coloured gels can be used. Barn doors can be used to focus the light.	Front light Back light	Warm Neutral Cool
Profile – This lantern is long and thin and can be used to create spotlights. A shutter and gate mechanism allow control over the beam of light to sharp or soft edge. Gobos can be used with profile lanterns.	Down light Up light	Coloured lighting gels
Flood – This lantern produces a clear wide-angled light, but there's little control over the spread of the light. Coloured filters can be used with this lamp.	Side light	Gobos create patterns
Parcan produces a strong beam of light that is suitable for creating bold colours on stage. Par cans can be identified by their rounded shape. Coloured filters can be used with this lantern.	Hand held lighting and pendant bulbs hanging in fly space.	Strobes rapidly pulse to create a special effect (for example to make the actors appear like they are moving in slow motion).

Keywords: lantern, lighting states, colour, intensity, soft focus, sharp focus, shadows, series, beam.

Self Quiz – LOOK, COVER, WRITE, CHECK, & CORRECT lanterns and lighting states table

- 1. List the reasons lighting is used in theatre.
- 2. Reflect on a theatre production you've seen. Can you identify the lighting used? What was the reason for this decision? What was the effect on the audience?

Context – what was happening at the time the play was written and set		Plot – the story		
1912	1945			
Edwardian era, or 'Golden Age', the time period in which the play is set.	Post WW1 (1914-1918) WW2 (1939-1945) Britain, the time in which the play was written and first performed.	Act One	The play opens with a celebratory dinner party. Sheila and Gerald are to be married and Birling and Company will work closer with Crofts Ltd.	
The British Empire – A military power.	Britain suffered the effects of two world wars.		Birling holds court and begins to make a series of statements we, as the audience, know to be fallacious.	
Britain was a global economic power however high exploitation of working classes.	Two recessions since 1912 resulted in economic instability for all, declining industry and high unemployment.		The Inspector enters and informs the party of the suicide of Eva Smith. Starting with Birling, he begins to interrogate the family.	
Social Inequality Rigid social hierarchy benefitting upper classes. Little social mobility. No welfare state.	Increased power of working classes through trade unions (an organisation of workers who join forces and become an official organisation working to protect workers' rights e.g. fair pay and better working conditions). Trade unions grew in power in the early 19th century particularly after WW2.		The Inspector interrogates Sheila and the incident at Milward's is outlined.	
Conservative and liberal domination in politics for two centuries.	ination in politics for two overwhelmingly, in 1945.		The Inspector focuses his line of inquiry towards Gerald and the name Daisy Renton is first introduced. Gerald's affair is exposed.	
Support for working classes provided by charities.	Labour introduce the welfare state and the creation of the NHS (1945-48)		Mrs Birling recounts the request for financial assistance made by a pregnant 'Mrs Birling' and shows no remorse for the refusal that she herself orchestrated.	
Gender inequality. Rigid, stereotypical gender roles. Men had more sexual freedom.	Increased gender equality. Gender roles are less distinct with more women in the workplace to take the roles previously filled by men before the war e.g. police officer. Women won the right to vote in 1928.		The Inspector, via a series of leading questions, induces Mrs Birling to say that the man responsible for the pregnancy should be punished and forced to take responsibility. Eric enters.	
Deeply entrenched capitalist system.	More awareness of socialism.	Act Three	Eric tells of a series of liaisons and how he has stolen money from Mr Birling to support the mother of an unborn child.	
Deeply entrenched inequality benefitting Tzars in Russia. 1917 – Russian revolution and the emergence of communist state.			The Inspector proportions the blame to each of the characters and performs his final speech.	
Melodrama and musical comedies are popular for many.	AIC first performed in Russia in 1945 then London in 1946. British theatres bombed and damaged, relocated, opening and closing erratically. Musicals, detective thrillers, Shakespeare revivals and films are popular. Emergence of serious dramas exploring political and social issues. AIC had a mixed response from the audience.		The family squabbles and points fingers. Gerald re-enters to suggest the whole thing was a hoax. The old, and Gerald, take this as a cue to alleviate any responsibility whereas the young are repentant. The phone rings	

Dramatic techniques: Tension – a feeling of nervousness, anxiety and excitement; climax – build up of tension; cliff hanger - a dramatic and exciting ending leaving the audience uncertain and creating suspense; dramatic irony – audience aware of something the characters are not; foreshadowing – subtle hints or predictions of later action; symbolism – one thing meaning, or representing, another; didactic – telling/ teaching; status – power or position of a character; coup de theatre (a dramatically sudden action or turn of events); well made play (genre) – popular in 19th century taking the audience and characters on a journey from ignorance to knowledge ending with a return to order; morality play (genre) – allegorical play presenting a lesson about good conduct and character; detective thrillers or 'whodunnit' play (genre) – a detective story in which the audience is given the opportunity to engage in the same process of deduction as the protagonist in the investigation of a crime.

		hese are YOUR IDEAS. Do NOT reference him.	A 1 2 .
Set description— naturalistic and symbolic	Analysis	Lighting – real lighting and stage lighting	Analysis
Doll's house on stilts.	Cloistered, unrealistic life of	Priestley's lighting stage direction: "The lighting should	Cloistered, celebratory, comfortable, warm.
	Edwardian upper classes.	be pink and intimate until the INSPECTOR arrives and	
House opens up at front, steps down to stage		then it should be brighter and harder."	
floor, house tips and falls, furniture breaks,	Reality and truth exposed; difficult,	Fresnel lantern with soft pink gel, light from open fire,	
crockery shatters, performed on/through	unsettling to face responsibility and a	chandelier, table lamps, candelabra.	
wreckage.	need for change; less distinct class		
	and gender boundaries.	Series of Fresnel lanterns creating a wash of strong,	Then harsh, difficult to hear, interrogation,
		cold white light.	exposing the truth and reality.
Cobblestones, rubble and debris on stage floor.	War time Britain - time written and	Cyclorama projection: clouds moving, weather	Creates atmosphere (pathetic fallacy) and
	first performed; the blitz.	changing, night and day.	sense of time passing.
Cyclorama projection: clouds moving, weather	Creates atmosphere (pathetic fallacy)	Contrast between dimly lit, cool white light on stage	Contrast in social class, ignorant of the harsh
changing, night and day.	and sense of time passing.	with warm glow from doll's house	reality of life for many in Edwardian Britain.
Telephone box tilted in stall box, street lamps and	All characteristics of 1940s Britain.	House lights in the auditorium come on for, 'Millions	Timeless message about equality and collective
radio downstage.		and millions of Eva Smiths" speech.	responsibility applicable for characters and audience.
Costume description	Analysis	Props and stage furniture description	Analysis
Birling men: typical Edwardian dinner dress for	Represents upper social class, wealth,	Inspector's notebook, photograph of Eva.	Interrogation, control and omniscience.
men, tail coats, dinner jacket, trousers, waistcoat, pristine white short and white bow tie.	privilege, cloistered, superior and detached.		
Birling women: Typical Edwardian long evening		Glasses, cigar.	Represents upper class – social status, wealth,
gowns, satin, lace, beading, chiffon, burgundy,	privilege, colourised, superior and		privilege.
long white gloves, hair pinned up and jewellery (pearls, brooch).	detached.		
Inspector Goole: Typical dress of 1940s, beige	From the future, generic class, 1940s	Mahogany dining furniture.	Represents upper class – social status, wealth,
trench coat, modest 1940s brown suit and trilby.	a time of economic uncertainty after	Cut glass port glasses and decanter.	privilege.
	2 world wars.		
Edna: Drab beige & brown, dress of 1940s, apron,	A unique position, a servant of time	Staging and stage space desc.	Self-importance, capitalism
scarf in hair.	but complicit with IG.	Doll's house centre stage.	Hierarchy, facing reality, foreshadowing future
		Family descends from doll's house for interrogation. Elements of 1940s downstage.	Moving forward, a need for change, audience in future.

Self Quiz: LOOK, COVER, WRITE, CHECK & CORRECT design description and analysis

1. Can you add another idea for set; lighting; costume; props and stage furniture; and, staging and stage furniture.

Haggerston School Knowledge Organiser

What do you like

dislike about the

appearance?

What could you do

to make this design

look better?

What materials are

you going to use to

create this design?

What joints/fixings

will be used to

create this design?

tools/machines/

processes could be

used to create this?

What could you do

to make this design

more sustainable?

ACCESS FM Analysing a Product

Aesthetics

Does the product look good? Does it make good use of colour and What has inspired it's appearance? (E.g. is it organic? Is it industrial?)

Cost

What is the retail price?
What is the relationship

Are the product's proportions appropriate for its use? If you increased or decreased the

Size

Annotating

Design Ideas

How is this design

environmentally

friendly /

sustainable?

What finishes would

How do you think

this design appeals

to your target user?

What could you you apply to this improve about the design to achieve its design? appearance?

Why are you using the materials you have suggested?

Have you labelled

the design with

measurements?

How are you going to make sure it is accurate?

Are there any safety

issues you need to

point out?

What are the

functions/features of

this design idea?

Why have you

chosen these

materials?

How could you

make this design

safer?

Are there any

functions / features

you could add?

Customer

Who is the product designed for? How and where would they use it? What effect will it have on their lives Will it add value? How is the product promoted to attract customers? Has the designer considered how people will interact with the produc Does the product target a particular age group or sector of people? What assumptions have been made out the potential buyers/users?

Environment

What is the product's impact on the What happens to the product after How long will it last? What factors limit/lengthen its life Can it be repaired? Can parts be How easily can it be recycled? Who would pay for the cost of

Function

Safety

joined together.

How has the designer considered safety issues in the products design?

Think about the ways it is being used and how different parts have been

Are there any risk assessment issue

in relation to the use of the product?

Does the product do the job it was How does it work? How easy is it to use? What effects will using it have, ncluding those beyond intended

Material

What materials are used to make the product and why?
Would another type of material work What impact could the designers choice of material have on the environment? Where do the materials and other resources needed for production come from? Are they likely to run out?

Evaluating and testing - Testing and evaluation should be continually carried out and used to modify a designer's ideas throughout the whole iterative design process

Client feedback - Have a clear idea of what the target users are looking for, initial ideas may have been misinterpreted

Target market feedback - Honest and critical feedback at the prototype stage can offer developments

Expert opinion - Professionals in industry can provide insightful and appropriate feedback

Analysing testing results - To record their findings, designers will take pictures and written notes from observations of users operating or wearing their product, as well as gathering users' opinions on this experience.

Qualitative data - is information that cannot be measured and is often based on opinion, for example favourite colour

Quantitative Data - is information that can be measured and written down with numbers, for example length

Face to face - conversational interviews give designers the chance to ask questions and help users form an opinion by offering options for new iterations

Against specification - This is where a specific list of criteria is written that a designer can follow as a set of rules. During the iterative design process, this specification should be referenced to and designs evaluated against it to ensure the final solution is the best fit.

What are vou

describing? Colour Shape Form Pattern Decoration Surface Texture Space Functional elements Prototype Features Motion

harmony balance emphasis neutral integrated

Descriptive words

aggressive - submissive futuristic - nostalgic old - young elegant - not elegant cold - warm mature - immature comfortable - uncomfortable dynamic - static excited - calm simple - complex strong - weak streamlined - rugged soft - hard steady - unsteady organic - mechanical contemporary - traditional smooth - sharp avant-garde - conservative flat - curved formal - casual straight - fluid delicate - rough functional - ornamental dazzling - ordinary detailed - plain rational - emotional volume/bulbous/bulging reliable - unreliable unified innovative - imitative stylized heavy - light peculiar varied - monotonous truthful - exaggerated innovative/novel/radical consistent - inconsistent

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Sustainability and the 6 R's

The 6 R's

The 6 Rs are an important checklist. They are used by designers to reduce the environmental impact of products. They can also be used to evaluate the environmental impact of other products.

The hierarchy of sustainability places the strategies that are best for the planet about those that have a greater negative impact on the environment.



1. Refuse

The first stage in the process is to ask whether the proposed product, part, purchase or even journey is required at all. Asking the question 'Is it really necessary?' can play a major role in reducing the demand on materials. Simply not using something saves 100% of what you have chosen not to use. Example include:

- Using your own carrier bag rather than purchasing a new one.
- · Walking or cycling to school instead of being driven.
- Not using products such as some pesticides that are known to be harmful to the environment.
- Not eating (or using) products that are over-farmed, over-fished or on the endangered list.

2. Rethink

Consumers have a growing number of choices to make about where and on what they spend their income. Greener and more sustainable options are not always the cheapest or the best, but making informed decision and rethinking ones spending power can play a huge part in conserving resources.

Deciding on the design of a product, e.g. the materials being used in its production, will directly affect its sustainability. The types of questions designers need to ask are:

- Are the materials locally sourced?
- Are they sustainably produced?
- Is it essential to use this material, of which there is a finite supply?

By rethinking how the product is likely to be made, the product can often be redesigned in a more responsible way.

3. Reduce

Reduction is often the result of having re-thought a design or action. Materials and energy are saved due to efficient manufacturing practices and the use of clever design, incorporating sustainable materials.

- Modern materials that are lighter and stronger than traditional ones have contributed to the miniaturisation of products, saving material and energy in manufacture and use.
- Reducing the complexity or number of parts a product uses and reducing the number of different materials in a product makes recycling easier.
- In factories, schools and hotels, fitting motion sensitive lighting and smart heating systems can significantly reduce energy usage.
- Many large companies employ staff to conduct 'energy walks' to turn off unused appliances and lights and to ensure windows and doors are shut to conserve heat.

4. Reuse

Reusing products multiple times for the same purpose is also known as **primary recycling**. Reusing a product in a different way from the one it was designed for is known as **secondary recycling**. The classic glass milk bottle is reused many times before it reaches the end of its useful life, as which point it is recycled. A plastic milk bottle, however, is intended to be used only one, although it can have many different subsequent uses.

Donating to and buying from charity shops extends the life of products and in recent years there has been a resurgence of in products having second lives, thanks to websites such as eBay, Freecycle or Gum tree.







It is also becoming popular for furniture and other household items to be **upcycled** with a coat of paint and some minor repairs or adaptations, extending their useful life by many years.

5. Repair

Being able to repair a product when it is broken or worn is a way of extending its life and delaying the purchase of a new one. Repairing is a positive option over replacement as it means that only some parts of the product are replaced. This creates jobs for skilled people who conduct repairs and stimulates a spare parts market.

Unfortunately, repairing products has become harder over years. Growing number of products are not design to be repaired. There are a number of reasons why items may be designed this way, but it is usually because they are cheaper to replace than repair. Some products, especially modern electronic products, are designed to last only a few years as technology dates quickly and older products will be superseded by newer, faster, more efficient models. This is called **planned obsolescence**.

6. Recycle

Tertiary recycling, although a very important stage, is lower down the hierarchy of preferred options because most materials that are recycled this way tend to be of lower quality than the original material. It takes a lot of energy to recycle materials.

This form of recycling requires the reprocessing of the material and in many cases involves chemicals and/or heat to recover the recycled materials. In an ideal world, tertiary recycling would remove all recyclable materials from our household waste so that only biodegradable materials would be left. Only very few parts of the world are set up to cope with this level of processing.

7. Sustainability

Our planet has to provide all of our basic human needs, such as food, shelter and warmth. Designers now have a much better understanding of which materials are sustainable and which are not. The general principle is that resources fall into two categories:

Finite resources - are ones which are in limited supply or cannot be reproduced.

Non-finite resources – are ones which are in abundant supply and are unlikely to be exhausted.

8. Recyclable materials

Once all useful and recyclable materials are removed, the majority of the remaining waste is organic matter and can be processed in one of two ways; 'Recover' or 'Rot'. Food waste and garden waste can be processed at a high temperature and turned into compost. The waste can also be buried in landfill sites where the resulting methane gas from the rotting matter is collected and burned and used to generate heat or electricity in the same way.

Materials

1. Woods

Man-Made Woods



Description

*Has a smooth, even surface

*Easily machined and painted

·Available in water and fire-resistan

•Furniture and interior panelling



together with urea formaldehyde (glue) Usually veneered with an attractive

Kitchen and bedroom furniture Shelving and general DIY Work



Hardboard

A very strong board, constructed of layers of veneer or piles, which are glued together with the grains at 90° to each

A very cheap particle board .Can have a laminated plastic .Boat building and exterior work

Description

•Kitchen unit and furniture back

Hard Woods

Oak

Open grained Very hard, but quite easy to work ·High quality furniture ·Beams used in building



Mahogany

·Easy to work with

Uses ·Shop fittings



Beech

Description

a fine texture ·Light in colour

Very hard but easy to work with Can be steam ben



Ash

Description
"Open grained
"Easy to work with •Pale cream colour, often stained black *Can be laminated (i.e. sliced into veneers which are glued together

*Sports equipment ·Furniture



Soft Wood

Pine

·Pale-yellow coloured with dark lines and a fine, even texture

*Stiff and stable

Readily available for DIY work Mainly used for constructiona work and simple joinery Furniture

2. Plastics

Acrylic

Polypropylene

High Impact

Polystyrene (HIPS)



Hard wearing Will not shatter

Can be coloured Bathtubs, School Projects, Display signs



·High Impact strength ·Softens at 150°C ·Can be Flexed many times without breaking ·School chairs, Crates

·Light but strong Widely available in sheets ·Used for casings of electronic products

Polythene (LDPE)



Weaker and softer than HPDE.

Lightweight

Carrier Bags + Squeezy Bottles

Polythene (HDPE)

Urea

formaldehyde



·Stiff strong plastic ·Used for pipes and bowls

Buckets

roperties: ·Colourless plastic

·Can be coloured Door and cupboard handles, Electrical

3. Material Properties

The ability of a material to stand up to forces being applied without it bending, breaking, shattering or deforming in any way

Elasticity

The ability of a material to absorb force and flex in different directions, returning to its original position

the ability of a material to change shape (deform) usually by stretching along its length

Malleability

The ability of a material to be reshaped in all directions without cracking.

The ability of a material to resist scratching, wear and tear and indentation

characteristic of a material that does not break or shatter when receiving a blow or under a sudden shock.

3. Metals

Aluminium

Properties:
-Light Weight ·Light grey in colour ·Can be polished to a mirror like appearance



Mild Steel

·Heavy

Dark grey in colour ·Rusts very quickly if exposed

·Rust resistant



Stainless Steel

·Heavy

·Shiny appearance

·Very resistant to wear /rust.



Cast Iron

Properties:
-Re melted pig iron with some quantities of other metals *Strong in compression.



Copper

•Reddish brown metal. *Excellent conductor of hea and electricity



Brass

•Yellow metal



4. Composites

Carbon Fibre

Expensive in comparison to other materials.

Very good strength to weight ratio.

Used in the manufacture of high end sports cars and sports equipment.



GRP Fibreglass

GRP is composed of strands of glass which are woven to form a flexible fabric. The fabric is normally placed in a mould and polyester resin is added.

Glass reinforced plastic is lightweight and has good thermal insulation properties. It has a high strength to weight ratio



Papers and Boards

1. Paper

Туре	Description and uses		
Layout paper	 lightweight, thin white paper used for initial ideas takes colour media well low cost 		
Tracing paper	thin, translucent papermaking copies of drawingshigh cost		
Cartridge paper	good quality white paper available in different weights general purpose work can be used to make simple models medium cost		
Bleedproof paper	 smooth, hard paper used with water-based and spirit-based felt-tip pens medium cost 		
Grid paper	printed square and isometric grids in different sizes a guide for quick sketches and working drawings low cost		

2. Selection of materials or components

When selecting materials and components considering the factors listed below:

- Functionality: application of use, ease of working
- Aesthetics: surface finish, texture and colour.
- Environmental factors: recyclable or reused materials, product mileage.
- Availability: ease of sourcing and purchase.
- Cost: bulk buying.
- Social factors: social responsibility.
- Cultural factors: sensitive to cultural influences.
- Ethical factors: purchased from ethical sources such as

What is the FSC? http://www.fsc-uk.org/en-uk/about-fsc/what-is-fsc/fsc-principles

3. Boards

Туре	Description and uses		
Corrugated card	 strong and lightweight used for packaging protection and point of sale stands available in different thicknesses 		
Duplex board	 large foam-based board different finishes available including metallic and hologrammatic used for food packaging, e.g. take-away pizza boxes 		
Foil lined board	 quality cardboard with a aluminium foil lining ideal for ready made meals or take away meal cartons The foil retains the heat and helps keep the food warm 		
Foam core board	 very light, very stiff and very flat. It has a white, rigid polystyrene foam centre, with smooth white paper laminated onto both faces. It is easy to cut with a knife, a mount cutter or on a wall cutter great for modelling 		
Ink jet card	 Has been treated so that it will give a high quality finish with inkjet ink available in matt and gloss 		
Solid white board	 top quality cardboard made from quality bleached wood pulp. used for hard backed books and more expensive items excellent print finish 		

5. Properties of paper and boards.

Туре	Weight or thickness	Uses	Relative cost (10= high)
Newsprint	50gsm	Newspapers	1
Layout Paper	60gsm	Sketches and tracing	3
Tracing Paper	70 gsm	Tracing	4
Sugar Paper	90gsm	Cheap mounting work	2
Inkjet/Photo paper	150- 230gsm	Photos/Pres entations	9
Board (Card)	230-750 microns	Model- making	5
Mount Board	230-1000 microns	Model- making, High picture quality mounting	9
Corrugated Card	3000-5000 microns	Packaging protection	5

4. Paper and Boards- Stock sizes and weights

Paper and board is available in sizes from A0 (biggest) to A7 (smallest).

The most common size is A4.

Each size is half the one before,

eg A4 is half the size of A3.

They are also

sold by weight:

GSM –

grams per square

Card thickness or calliper is traditionally measured in Microns. 1000 Microns = 1mm, so the higher the value, the thicker the card or paper.

7: KEY WORD FOCUS

You should be able to explain the meaning of each of these words by the end of this rotation.

GSM	Grams per Square Metre	
Microns	Thickness of paper or card.	
	1000microns =1mm thickness	

Textiles

1. Fabrics

Natural Fabrics

Cotton	Soft, good absorbency, prints well, machine washable, strong breathable	Origins from the Cotton Plant.	Uses: Jeans, towels, Shirts, dresses, underwear
Wool	High UV protection, flameproof, breathable, durable insulating	Origins from Sheep.	Uses: Jumpers, Coat, blankets
Silk	Smooth, Soft, Strong	Origins from the silk worm.	Uses: Wedding dresses, lingerie.
Linen	Strong, cool in hot weather	Origins from the flax plant	Uses: Trousers, tops.
Leather/Suede	Strong, hardwearing, durable.	Origins from the skin of animals, mainly cows.	Uses: Jackets, Trousers, Shoes.

Synthetic fabrics

Polyester	Durable, wrinkle resistant, stain resistant	Uses: Shirts, jackets. Also used in safety belts, conveyor belts and tyre reinforcement.
Polyamide (Nylon)	Durable, high abrasion resistance	Uses: Sportswear, carpets.
Elastane (Lycra)	Stretchy, durable, high stain resistance	Uses: Sportswear, Swimwear, tights.
Viscose	Soft, comfortable, absorbent, easily dyed.	Uses: Dresses, linings, shorts, shirts, coats, jackets and outerwear.
Acrylic	Absorbent, retains shape after washing, easily dyed, resistance to sunlight.	Uses: Jumpers, tracksuits, linings in boots.

1. Fabrics

Blended and mixed Fabrics

These fabrics take on the positive characteristics of their combinations

Cotton/Polyester	Easy care and crease resistant	Uses: School shirts.
------------------	--------------------------------	-------------------------

2. Fabric Construction

Woven

Plain Weave	Extremely strong and hard wearing	
Twill Weave	Extremely high strength and abrasion resistant.	

Knitted

	Knitted fabrics	Stretchy, soft and comfortable.	90 s (200)
1			WITH A REAL PROPERTY OF THE PARTY.

Non-Woven

Bonded Fabrics	These are webs of fibres held together by glue or stitches.	
Felted Fabrics	Felt is made by combining pressure, moisture and hear to interlock a mat of wool fibres.	

3. Care Labels



Washing
Labelwill
usually
have a
max.
temp
number
included



Hand Wash only



Do not wring out



Tumble Dry



Iron on low heat.
The more dots the higher the heat setting



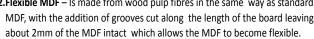
Do not bleach

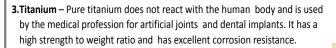
Smart and Modern Materials

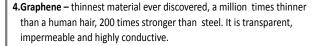
1. Modern Materials

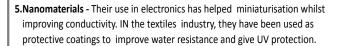
1.Corn Starch Polymers – plastics that are biodegradable and not toxic to the environment. They are easy to recycle.

Name	Uses	Characteristics	
Polylactic acid (PLA)	 Disposable food and drink containers 3D Printed Items 	 Smooth or textured finish. Easy to Colour Easy to mould Fully biodegradable 	
Polyhydroxybutyrate (PHB) Biopol TM	BottlesPotsDisposable food containers	 Smooth or textured finish. Easy to Colour Easy to mould Fully (but slowly) biodegradable. 	
2.Flexible MDF – Is made from wood pulp fibres in the same way as standard MDF, with the addition of grooves cut along the length of the board leaving about 2 mm of the MDF intest, which allows the MDF to become flexible			









6.Metal Foams - Porous metal structures, often made from Titanium and Aluminium use as little as 25% of the mass. This makes them extremely lightweight but retaining most of the properties of the base material.





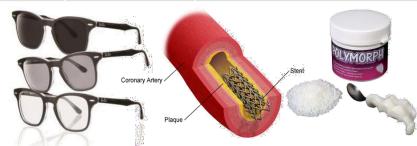


2. Smart Materials

A material that reacts to an external stimulus or input to alter its functional or aesthetic properties.. They can react to heat, light, pressure, moisture and electricity.

Name	Stimulus	What is does?	Uses
2.1 Thermochromic pigments	Heat	Changes colour when heat is applied.	Flexible thermometers Temperature indicators Novelty goods
2.2 Photochromic pigments & particles	UV Light (Natural Light)	Changes colour in sunlight/UV Light	 Transition Lens Sunglasses Nail varnish Clothing Novelty goods
2.3 Shape memory alloy Nitinol	Heat or Electricity	Returns to original/pre set shape when heated to 70°C or electricity is applied.	Glasses Frames Fire Sprinklers Dental Braces Surgical Stents
2.4 Polymorph	Heat	Becomes mouldable by hand when heated to 62°C	 Personalisation of products Repairs Prototyping & Modelling
2.5 Quantum Tunnelling Composite	Pressure	Varies the amount of electrical current depending on pressure applied.	Touch sensitive pads Wearable technology Variable speed controls
2.6 Piezoelectric Material	Movement , stress or electricity	Stress or movement produces electrical signal or <i>vice versa</i> .	Mobile phone speakers and microphones Gas Lighters ignition spark
2.7 Litmus Paper	Levels of PH in substances.	Changes colour spending on chemical balance.	 Scientific experiments Soil testing for gardener/farmers Testing swimming pools and fish tanks





Knowledge Organiser Haggerston School

New and Emerging Technologies

New technologies are those that are currently being developed or will be developed in the next 5 to 10 years, and which will alter the business and social environment.

Examples: <u>Fuel-cell vehicles</u> Zero-emission cars that run on hydrogen.





Additive manufacturing

The future of making things, from printable organs to intelligent clothes





Automation and the use of robotics

As industry has grown new and emerging technologies have changed the way designers, architects and engineers work.

Intelligent machines and robotics have replace machine operators and engineers.

The development of work now almost always involves the use of **Computer Aided Design (CAD)**.

This software can carry out complex tasks such as virtual stress testing this is called **Computer Aided Testing (CAT)**.

Designs can be produced to look 3D so customers can give opinions before **prototyping** begins.

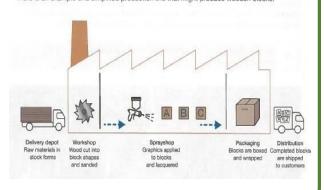
Buildings and the place of work

The development of the internet has changed how data is transferred. This has lead to people being able to work together remotely (from different buildings or countries).

Projects can be sent to machines using **computer aided manufacturing (CAD)** techniques including **computer numerical control (CNC)** machines such as laser cutters and rapid prototyping (RPT) machines such as 3D printers.

Physical layout of buildings for production should be logical to increase efficiency. This will reduce unproductive time, movement and waste materials.

Here is an example of a simplified production line that might produce wooden blocks.



Enterprise

An idea that is developed into a business proposal for a product that has commercial viability. Products developed in this way require a patent to protect the idea so that other companies cannot use it without permission this is called a registered trademark.



Co- operatives

A farm, business, or other organization which is owned and run jointly by its members, who share the profits or benefits.

Crowdfunding

Funding a project or venture by raising money from a large number of people who each contribute a relatively small amount, typically via the Internet.

Virtual marketing and retail

Virtual marketing the use of search engines positioning and ranking, banner advertising, e-mail marketing and social media in order to reach a wider audience to promote a product.





Fairtrade

Trade between companies in developed countries and producers in developing countries in which fair prices are paid to the producers.

People, Culture and Society

People

Consumer Choice

Growth of global manufacturing has lead to a wider variety of products being available, prices of products are kept low because of the wider competition.

Technology Push

Advances in technology and science lead to the development of new products. Research and Development (R&D) Departments are used within large companies to ensure they can create new and exciting products.

1993 APPLE NEWTON PDA



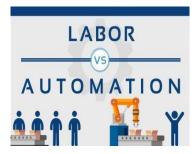
2012 SAMSUNG GALAXY







Advances in touchscreen technology



Society

Companies putting the environment and people before profit. Examples:

- Carbon Neutral Products
- Use of renewable materials
- Reduction of carbon emissions/greenhouse gasses
- Use of recycled materials
- Products designed to be 100% recyclable
- · Promotion of Fairtrade
- Reduction of transportation
- Non profit organisations that reinvest money to support good causes
- Consideration to designing products for the elderly or disabled
- Consideration to different religious groups

4 main ways to consider the population when designing

Type of Production	Example
One size fits all	Door Frames Baths
A range of sizes to cover all	Shoes Clothes
Adjustability to allow use by all	Car Seats Shower head height
Adaptability to support location or user	Children's booster seats Car roof bars

Culture

A combination of ideas, beliefs, customs and social behaviours of a society or group of people.

Fashion and Trends

Designers developing products that are influenced by 'the latest thing'.

Faiths and Beliefs

Designers being responsible for the impact their design choices may have on a community.

Production techniques

1. CAD - Computer Aided Design

Advantages of CAD	Disadvantages of CAD
Designs can be created,	CAD software is complex to
saved and edited easily,	learn
saving time	
Designs or parts of designs	Software can be very
can be easily copied or	expensive
repeated	
Designs can be worked on	Compatibility issues with
by remote teams	software
simultaneously	
Designs can be rendered to	Security issues - Risk of data
look photo-realistic to	being corrupted or hacked
gather public opinion in a	
range of finishes	3 2D [®]
CAD is very accurate	SolidWorks DESIGN
CAD software can process	
complex stress testing	CAD Software

2. CAM - Computer Aided Manufacturing

Advantages of CAM	Disadvantages of CAM
Quick – Speed of	Training is required to
production can be	operate CAM.
increased.	
Consistency – All parts	High initial outlay for
manufactures are all the	machines.
same.	
Accuracy – Accuracy can be	Production stoppage – If the
greatly improved using	machines break down, the
CAM.	production would stop.
Less Mistakes – There is no	Social issues . Areas can
human error unless pre	decline as human jobs are
programmed.	taken.
Cost Savings – Workforce	
can be reduced.	



Laser Cutter







3: Production Techniques

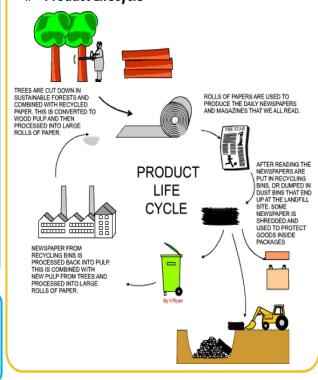
- 3.1 Flexible Manufacturing Systems (FMS): involves an assembly of automated machines commonly used on short-run batch production lines where the products frequently change.
- 3.2 Lean Manufacturing: It aims to manufacture products just before they are required to eliminate areas of waste including:
- Overproduction
- Waiting
- Transportation
- Inappropriate processing
- Excessive inventory
- Unnecessary motion
- Defects
- 3.3 Just In Time (JIT): Items are created as they are demanded. No surplus stock of raw material, component or finished parts are kept.

Advantages of JIT	Disadvantages of JIT
No warehousing costs	Reliant on a high quality supply chain
Ordered secured before outlay on parts is required	Stock is not available immediately off-the- shelf
Stock does not become obsolete, damaged or deteriorated	Fewer benefits from bulk purchasing

4. Scales of Production

One off: when you make a unique item Batch: when you make a few/set amount Mass: when you make thousands Continuous: open ended production

- 1.Planned obsolescence Planned obsolescence is when a product is deliberately designed to have a specific life span. This is usually a shortened life span.
- 2. Design for maintenance Products are often designed to be thrown away when they fail... This can be achieved by designing products that can be repaired and maintained.
- 3. Disposability Some products are designed to be disposable.
- 4. Product Lifecycle -

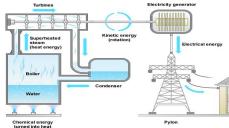


Energy systems

Energy Types

1. Fossil Fuels – Non-renewable

energy



In a thermal power station fuel such as coal, oil or gas is burned in a furnace to produce heat - chemical to heat energy.

- this heat is used to change water into steam in the boiler.
- the steam drives the turbine heat to kinetic energy
- this drives the generator to produce electricity
 kinetic to electrical energy.

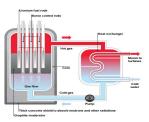
Some experts believe that fossil fuels will run out in our lifetime.

Energy Types 2. Biomass Energy —Renewable



Biomass is an industry term for getting energy by burning wood, and other organic matter. Burning biomass releases carbon emissions, but has been classed as a renewable energy source in the EU and UN legal frameworks, because plant stocks can be replaced with new growth.

3. Nuclear Energy – Renewable energy **Energy Types**



The main nuclear fuels are **uranium** and **plutonium**. In a nuclear power station nuclear fuel undergoes a controlled chain reaction in the reactor to produce heat - nuclear to heat energy.

- heat is used to change water into steam in the boiler.
- the steam drives the turbine (heat to kinetic energy)
- this drives the generator to produce electricity - kinetic to electrical energy.

Energy Types

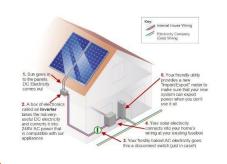
8.Batteries

Alkaline batteries are the most common type of domestic batteries, they are disposable but contain chemicals that are bad for the environment. Fortunately more and more battery recycling banks are appearing now where most of the battery can be reused. Rechargeable batteries are better for the environment and more economical in the long run (High initial purchase price). Their lifespan decreases with every charge.

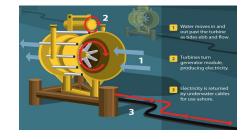
Energy Types 4. Wind energy



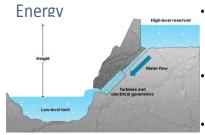
5. Solar Energy – Renewable Energy



Tidal energy



7. Hydroelectricity – Renewable



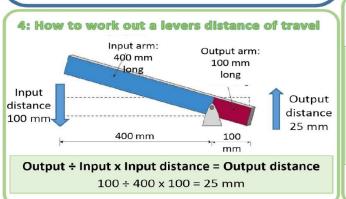
- In a hydroelectric power station water is stored behind a dam in a reservoir. This water has gravitational potential energy.
- The water runs down pipes (potential to kinetic energy) to turn the turbine
- The turbine is connected to a generator to produce electricity (kinetic to electrical energy).

Mechanical devices

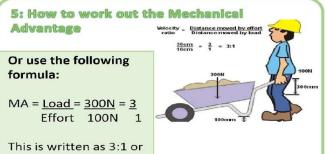
1: Mechanical Devices - Motion

There are four types of motion:

mere are real types or metre				
Linear Motion is movement in one direction along a straight line.				
Oscillating Motion This motion is similar to reciprocating motion, but the constant movement is from side to side along a curved path.)	A		
Rotary Motion Examples of circular motion include a ball tied to a rope and being swung round in a circle	C			
Reciprocating Motion, this is repetitive up-and-down or back-and- forth linear motion	\Leftrightarrow			



2: Mechanical Devices - Levers There are three classes of levers. Class One A class one lever has its input on one side of the fulcrum ▲ Fulcrum and its output on the other. Class Two A class two lever has its input at one end of the lever, its output in the middle and fulcrum at the other end. Class Three A class three lever has its output at one end of the lever, its fulcrum at



the other with its input in the middle.

iust MA of 3

1	3: Mechanical Devices – Linkages						
	Reverse motion linkage	Moving Free Fixed Free Moving Free					
	Parallel motion or push/ pull linkage	Moving Pivot Fixed Pivot					
	Bell crank linkage	The bell crank linkage changes the direction of the input motion through 90 degrees. It can be used to change horizontal motion into vertical motion or vice versa. It uses a fixed pivot and two moving pivots.	Moving Pivet Fixed From Moving Pivet				
	Crank and slider	The crank and slider linkage changes rotary motion into reciprocating motion or vice versa. It uses a crank which is held with a fixed pivot. A connecting rod uses two moving pivots to push and pull a slider along a set path.					
	Treadle linkage	The treadle linkage changes rotary motion into oscillating motion or vice versa. It uses a crank which is held with a fixed pivot. A connecting rod uses two moving pivots and a further fixed pivot to create a	8				

windscreen wiper motion.

Electronic systems and processing

1. Processes

Components that process electronic signals and enable output devices to perform tasks. This is controlled by an integrated circuit (IC)

e.g. A microcontroller

Analogue — Continuous signal with an infinite range e.g. thermistor Volts Analogue Digital — Either on or off — 0 is off 1 is on Digital Digital

3. Counters

Counters – Keep count of how many times something occurs, output information to a **seyen segment display.**



4. Programming

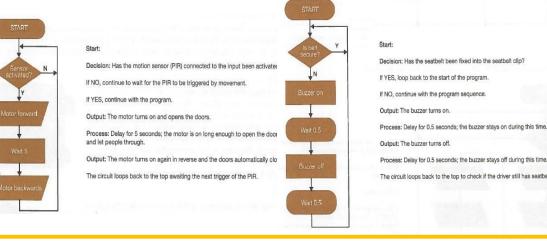
Micro controllers also called Peripheral interface controllers (PICs) can be programmed to perform differently by a computer.

Timers

Devices used to perform specific tasks. 2 types monostable and astable.

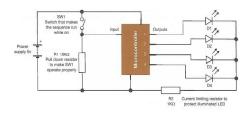
Monostable – output turned on for a set period of time e.g. Automatic doors

Astable – fluctuates between on and off – oscillating output e.g. Seat Belt alarm in a car

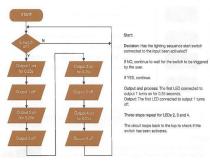


5. Programming 2

Microcontrollers – How a microcontroller would control a bike light.



Program for the microcontroller to make LED's flash in sequence



	Economic Growth DPRO27: I can accurately explain what is meant by economic growth				
What I need to do: I can explain what is meant by economic		Words I need to say:			
_ 	growth. I can calculate and explain how economic growth is measured. I can analyse recent and historical GDP data.	☐ Economic Growth	☐ GDP per capita	☐ Gross Domestic Product (GDP)	

Knowledge I need to learn:

What is economic growth?

- **Economic Growth** is the increase in the **gross domestic product (GDP)** of a country over time.
- Gross Domestic Product (GDP) is the total value added of goods and services produced in the country in a year.
- Therefore, economic growth is the increase in the value of output of a country.
- The total value of output becomes incomes for those who produce it.
- These incomes are in the form of wages, profits, interest and rent.

Questions I need to answer:

- What is the meaning of economic growth?
- What is gross domestic product (GDP)?
- What is GDP per capita?
- How is GDP growth calculated?
- What is a recession?

How is economic growth measured with reference to gross domestic product (GDP) and GDP per capita?

Economic/GDP growth rate = Change in GDP/Original GDP X 100

Here is an example:

Imagine if a country has a GDP of £500 billion and the next year it rises to £510 billion, then the rate of growth is:

£10 billion/£500 billion X 100 = 2%

What is GDP per capita?

- **GDP per capita** is GDP divided by the population.

If a country has a GDP of £500 billion and population of 100 million people, then the GDP per capita would be:

£500 billion/100 million = £5,000 GDP per capita.

Analysing Recent and Historical GDP data

Boom: A period of high economic activity and high levels of employment.

Recession: A period of time when the country's GDP decreases for two or more consecutive financial quarters.

Determinants of Economic Growth

What I need to do:

I can accurately analyse the determinants of, and evaluate the costs and benefits of, economic growth.

DPRO29: I can accurately analyse the determinants of, and evaluate the costs and benefits of, economic growth.

Words I need to say:

- **Economic Growth**
- Investment
- **Education and Training**
- Labour Force
- **Labour Productivity** Natural Resources

- **Government Policies**
- Size of the Workforce

Knowledge I need to learn:

Investment:

This is spending on capital goods (premises, machinery and equipment). More investment means that the economy can produce more goods and services.

Changes in Technology:

Technological progress means the quality of capital goods improves, and a given quantity of capital can now produce more output than before.

Education and Training:

This affects the quality and quantity of the work done. The more literate educated, trained and skilled the workers, the higher the output of the country may be.

Labour Productivity

Labour Productivity can be measured in output per worker over a period of time. Higher productivity will encourage economic growth. Labour productivity is largely affected by investment, technological progress and education and training.

Questions I need to answer:

- How might a loss of land, due to climate change, affect economic growth?
- How might an in apprenticeships and training schemes affect economic growth?
- How might faster broadband infrastructure affect a country's economic growth?

Size of the workforce:

The economy can produce more if it has more of the factor of production known as labour.

Natural Resources:

If a country discovers or develops natural resources, this can be a stimulus to economic growth. Large supplies of oil and natural gas were discovered under the North Sea and this has contributed significantly to the UK's growth rate.

Government Policies:

Government spending, such as on infrastructure, can encourage economic growth. Infrastructure is the basic systems and services that an economy uses in order to work effectively.

Evaluating Economic Growth What I need to do: I can accurately analyse the	DPRO29: I can accurately analyse the determinants of, and evaluate the costs and benefits of, economic growth. Words I need to say:				
determinants of, and evaluate the costs and benefits of, economic growth.	EmploymentUnemployment	Living StandardsPoverty	☐ Inflation☐ Inequalities		
Knowledge I need to learn:					

Benefits of Economic Growth	Costs of Economic Growth
Rise in Employment & Fall in Unemployment When an economy grows, there will be more demand for goods and services, meaning that more workers will be required to make these goods and services - this will lead to an increase in employment.	Inflation When economic growth occurs, there is more demand for goods and services across the economy which pushes the average price up across the economy - leading to inflation.
A Reduction in Poverty Increased income helps reduce poverty levels but also the government can use the tax revenue to raise the living standards of those with low income.	Inequalities of Income and Wealth When an economy grows the distribution of wealth may be unequal and some people may actually become less wealthy.
A Rise in Material Living Standards Economic growth leads to higher income, which allows people to do things with their money which they couldn't do before - this may make them happier.	A Lower Quality of Life These better paying jobs can have an impact on people's mental and physical health.
A Rise in the Welfare of The Population When an economy grows the government can use the tax revenue to improve healthcare and education.	Environmental Costs Increased production of goods and services can lead to: Increased pollution, Worsening global warming, Congestion, Loss of non-renewable resources.

Low Unemployment	DPRO30: I can accurately explain what is meant by employment and unemployment		employment and unemployment.	
I need to do: I can explain what is meant by employment and	and explain the different types of unemployment.			
unemployment.	Words I need to say:			
I can explain how unemployment is measured using the Claimant Count. I can calculate the unemployment rate.	000	Employment Unemployment Claimant Count	0	Level of Unemployment Rate of Unemployment

Knowledge I need to learn:

What are employment and unemployment?

- **Employment** refers to the use of labour in the economy to produce goods and services.
- Labour is one of the factors of production needed to produce goods and services - the reward for labour is wages, and most households rely on these wages from employment of their income.
- There will always be some people who are out of a job, because they may be looking for a different job or for their own reason, or because demand for workers in a market has decreased.
- Unemployment occurs when workers able and willing to work at the current wage rates are unable to find employment.

Questions I need to answer:

- What is employment?
- What is unemployment?
- How is unemployment measured?
- How can we calculate unemployment figures?

How is unemployment measured?

 Claimant Count is the method of measuring unemployment according to the number of people who are claiming unemployment-related benefits.

How can we calculate unemployment figures?

Unemployment is expressed in two ways:

- The level of unemployment
- The rate of unemployment

The **level of unemployment** refers to the number of people in the working population who are unemployed.

The **rate of unemployment** shows the percentage if the country's workforce that is unemployed.

This can be calculated as follows:

Unemployment Rate = The number of unemployed/Workforce X 100

DPRO30: I can accurately explain what is meant by employment and unemployment, and explain the **Causes of Unemployment** different types of unemployment. What I need to do: Words I need to say: I can analyse recent and historical Seasonal Unemployment Structural Unemployment unemployment figures. Cyclical Unemployment Frictional Unemployment I can explain the types of **Questions I need to answer:** unemployment, including cyclical, What is seasonal unemployment? frictional, seasonal and structural What is frictional unemployment? unemployment. Using an example, explain what structural unemployment is. What is cyclical unemployment? **Knowledge I need to learn: Causes and Types of Unemployment Types of Unemployment Examples** Seaside hotels close for the winter period. **Seasonal Unemployment:** Lack of employment caused by a fall in demand during a particular Agricultural workers may not be required outside the planting and harvesting seasons. season. **Frictional Unemployment:** A national chain of shops close down. Lack of employment caused by time lags when workers move The unemployed workers will be able to find work elsewhere such as other shops, but it takes time between jobs. for them to do so. **Structural Unemployment:** A coal mine closes down. Unemployment caused by decline in an industry. The workers have specific skills which are not required in other industries, so they find it very difficult to gain employment elsewhere. **Cyclical Unemployment:** The economy enters a period of lower economic growth, or even a period of negative economic Lack of employment caused by a lack of demand in the economy. growth, known as a recession.

Consequences of Unemployment What I need to do:	DPRO 34: I can accurately evaluate the causes and consequences of unemployment for individuals, regions and the government.			
I can evaluate the causes and consequences of unemployment for	Words I need to say:			
individuals, regions and the government.	☐ Cyclical Unemployment ☐ Frictional Unemployment	☐ Living Standards ☐ Taxpayers	Regions Budget Deficit	

Knowledge I need to learn:

The benefits of unemployment:

- Frictional unemployment is necessary because it suggests that workers may be leaving their jobs in search of new jobs with better pay and benefits - the workers may only be unemployed for a short period of time but at the end they may have more money to spend in the economy.
- High unemployment keeps the wage rate low, which means that costs are lower for firms - although this is bad for workers who earn less money.
- Low wages also make UK firms more competitive because they can keep their costs low and afford to charge higher wages.

The costs of unemployment:

- Lower living standards: When workers lose their jobs they don't make as much money which generally makes them unhappier.
- Workers may feel like they have a lower self-esteem and sense of self worth if they have been unemployed for a while.
- When workers have been unemployed for a while, they may struggle to find a job since employers will be hesitant to hire someone who has been unemployed for a long time - which may lead to them not looking for work at all.
- Cost to taxpayers: the unemployed are entitled to state benefits which are paid for taxes - if there is not enough tax revenue, the government may need to increase taxes.

Costs to the government:

- Labour resources are wasted: The economy may struggle to grow if there is large unemployment.
- Unemployment leads to more unemployment.
- Budget Deficit

Costs to the regions:

- Unemployment is often spread unevenly throughout the country some countries may suffer more from unemployment.
- This may cause people to move away from these 'depressed' areas, which makes them worse.

Questions I need to answer:

- What is one of the benefits of unemployment?
- What is a cost of unemployment to a workout?
- What is a cost of unemployment to the government?
- What is the cost of unemployment to firms?
- What is the cost of unemployment to some regions?

Knowledge Organiser Haggerston School

Fair Distribution of Income **DPRO 35:** I can accurately explain what is meant by the distribution of income, including different types of income, the difference between and calculate income and wealth. What I need to do: I can explain what is meant by the Words I need to say: distribution of income, including different types of income and the difference Distribution of Income ■ Wealth Net Income between income and wealth. Distribution of Wealth Income Gross Income I can calculate income and wealth.

Knowledge I need to learn:

What is the distribution of income?

The **distribution of income** refers to how the total income of the economy are shared out among its people.

Different types of income:

Wages: Most households receive income in the form of wages.

Rent: The owners of land and property can gain income from renting out their properties for others to live or work.

Interest: The reward for saving money is paid to households who save their money in bank accounts or loan their money to people.

Profit: Households can earn profits by owning shares in a company, these profits are known as dividends.

State Benefits: Some people may have no jobs at all and rely on state benefits for their income.

What is the difference between income and wealth?

Income is the reward for the service provided by a factor of production, including labour.

Wealth is the market value of all the assets owned by a person, group or country at a specific point in time. Wealth is a stock of assets, e.g money, houses and land.

How is income distributed in the UK?

Gross Income: Income received before any taxes are taken or benefits given.

Net Income: Income available after the effect of direct taxes and benefits, often called disposable income.

Inequality in household incomes in the UK has stayed at a similar level since the early 1990s but is higher than during the 1960s and 1970s.

In 2018/19, 42% of all net household income in the UK went to the 20% of richest people, while 7% went to the poorest 20%.

Questions I need to answer:

- What is the difference between income and wealth?
- What is the difference between gross and net income?
- What is the distribution of income?

Income & Wealth Inequality DPRO 36: I can accurately every consequences for an economic consequences for an economic consequences.						
I can evaluate the causes of differences in the distribution of income and wealth and the consequences for an economy.		Words I need to say:				
		☐ Income ☐ Wealth	☐ Rent☐ Wages		□ Profit □ Interest	☐ Inheritance
		Knowledge	I need to lear	n:		
Reasons for in	ncome inequality in the UK		Reasons for v	wealth inequ	ality in the UK	
Income-ear ning assets are The majority of households only receive wages (which are fairly small), only a few households receive rent or interest, but very little. The richest households receive all of these forms of income, in large		Inheritance	Some individuals and families own considerable assets, this allows them to pass down their assets to younger generations through inheritance. This allows inequality to continue.			
unevenly distributed	nevenly amounts. istributed		Savings	Savings earn interest and allow individuals and households to build wealth. However, low-income households don't earn enough to sav		
Differences in wages	, , , , , , , , , , , , , , , , , , , ,		Purchase of Property	in most cases. All forms of property are considered wealth. This mans that the property could earn income. Houses can earn rent and comparts shares can earn profits, they can also increase in value over ting without the owner having to do anything. Poorer households to cannot afford to purchase property.		earn rent and company
Reliance on benefits						
	comparison to competitive wages.		Enterprise	Some people build up wealth through their entrepreneurship, they may start businesses which counts as property and generates income		
Age	The younger and older age groups (es average incomes than those in the mi		and wealth for the owners.			
	-		Questions I			W2 (2 manage)
Gender	The average income of females is lower than that of males in the UK. IN 202, the gender pay gap was 7.4% for full-time employees.			 Why is income unevenly distributed in the UK? (3 reasons) Why is wealth unequally distributed in the UK? (3 reasons) 		

Structure



Drop

Set the scene and describe the setting or landscape.

Zoom

Choose something that you will 'zoom in' on and describe in detail

Flash

Change the time or place of your story

Echo

Bring it back to where you were at the start. What has changed?

Punctuation:

Full stop.

Question mark?

Exclamation mark!

Comma,

Semi-colon;

Colon:

(Brackets)

Speech marks ""

Adverbs:

Cautiously, Violently, Rapidly, Eagerly,

Sentence Types:

Complex sentence with embedded clause:

The sky, which had previously seemed so threatening, now smiled down upon the majestic fields.

Short, simple sentences. (Can you repeat the first word or phrase?)

<u>The road</u> was long. <u>The road</u> was silent. <u>The road</u> was their only hope.

Adverbial phrases

As the trapdoor slammed shut, silence filled the air.

Figurative Language Examples to Magpie:

Suspense suffocated the air; it spread like a disease.
The moon glared down on them as it illuminated the fearful city.

The sun watched intently as the last of the crowds made their way home.

As the wind increased rapidly, the trees stood like giants. Up until this moment, his life had been an unbreakable prison.

Two choices flooded her mind: run or fight.

Vocabulary

Synonyms for Great	Synonyms for Dark	Synonyms for Scared
Majestic Tremendous Awe-inspiring Glorious	Dingy Gloomy Ghastly	Terror-struck Agitated Horrified
Synonyms for Miserable	Synonyms for Kill	Synonyms for Beautiful
Sorrowful Despairing Downhearted	Slaughter Crucify Slay	Angelic Exquisite Radiant Dazzling
Synonyms for Watched	Synonyms for Anger	Synonyms for Red
Observed Glared	Wrath Fury Rage	Crimson Scarlet

If you're asked about a broad theme like Identity, you could use most poems in the cluster — just make a strong comparison.	Identity — Work, Culture and Language	Identity — Family Heritage	Nature — Connection to Nature	Nature — Damage to Nature	Belonging	Loneliness and Isolation	Migration	Prejudice	Power and Authority	Education	Change and Revolution
Lines Written in Early Spring			1			/					1
England in 1819									1		1
Shall earth no more inspire thee			1			1					
In a London Drawingroom				✓		1			1		
On an Afternoon Train	1	1			1		1	1			
Name Journeys	1				/	1	1	1			
pot	1	1			1		1		1		
A Wider View	1	1		1	1						
Homing	1	1			1			1	1	1	
A century later								1	1	~	1
The Jewellery Maker	1	1			1						
With Birds You're Never Lonely	1		1	1		1					
A Portable Paradise		1	1				1				
Like an Heiress			1	1	1	1	1				
Thirteen								/	V	1	/

Themes:

Identity: Work, culture,

language

Identity - Family heritage

Nature - connection to nature

Nature - damage to nature

Belonging

Loneliness and Isolation

Migration

Prejudice

Power and Authority

Education

Change and Revolution

English Language Paper 1: Explorations in Reading and Creative Writing Knowledge Organiser

1 hour 45 minutes

The absolute basics:

Read the text - 5 mins



READ

Section A Q1 - List 4 things (5 mins)

Q2 - How does the writer use language to...

(10 mins)

Q3 – How does the writer structure the text

to... (10 mins)

Q4: [statement] To what extent do you agree? (30 mins)

Section B

Q5: Writing to describe or narrate (45 mins inc. planning time)

Start of the exam (5 mins)

- Read the blurb given for the text. Highlight key words which given you a clue about what you will be reading e.g. character, setting, time.
- Read the passage carefully. Take time to make sure you understand it and text mark (highlight) as you go.

Look out for:

- 1. Key quotes about character or setting
- 2. Pivotal moments
- Sentences which build a particular tone or mood.

Section A: Question 1 (5 mins, 4 marks)

Question stem: Write down four things you learn...

Planning

- Read the question and highlight the key words, including the lines it asks you to focus on.
- Draw a box around the lines you need to focus on in the insert.

Writing

- Write in full sentences.
- 2. One point per line.
- 3. Keep it simple i.e. explicit inferences

Question 2 (10 mins, 8 marks)

Question stem: How does the writer use language to...

Planning

- Read the question and highlight the key words to ensure you understand what the focus of your answer will be.
- Re-read the section of text the question asks you to focus on.
- Highlight key quotations which will help you answer the focus of the question. Consider the use of different language devices.

Basic things to look out for: 5 senses, colour, adjectives and verbs.

Grade 7 to extended metaphors, semantic fields, assonance.

Writing

- You are writing 3 clear PEAs to answer the question.
- Each should focus on a different language device used.

Grade 7+ = Develop PEAs into PEAEAs to show how devices are used across the extract and an overall effect is created.

Your 'Points' should use the wording of the question.

Useful sentence starters Possible intro if time:

Throughout the extract the writer creates a ... tone/atmosphere.

Point:

The writer has used a [language device] to suggest/imply/create...

Evidence:

For instance, '...'



Analysis:

The use of ... makes it sound like... The word/phrose/subject term '...' creates an impression of... We might realise/imagine/feel...

Question 3 (10 mins, 8 marks)

Question stem: How has the writer structured the text to interest you as a reader?

Planning

structure

- Read the question and highlight the key words. This
 question is about how the text is put together and
 organised, rather than the language devices used.
- 2. At the top of the answer booklet write: STOPSEC

Setting Time Opening Perspective Shift in focus Ending

Character



 Skim through the whole source again. Highlight and label where you see different STOPSEC featuresparticularly focus on how the opening and ending are effective.

Top tip: for a really clear response, think about what the writer focuses your attention on at the beginning, what they focus you on at the end-and whether this is similar or different. Then ask WHY?

Writing

 Aim for 3 PEA paragraphs: beginning contrasted to the end-to give a general overview of the text first of all, then consider how your focus shifts in the middle of the extract and why —your analysis isn't focusing on the use of words and phrases, but on the atmosphere/tone created by the different structural (STOPSEC) features used at different points. A final PEA could be written about another interesting structural feature: repetition, juxtaposition, tone, sentences etc.

Useful sentence starters: Possible intro if time:

Throughout the extract the reader carefully structures the text to interest the reader. They particularly consider [insert STOPSEC feature/s you will focus on.] Point:

The writer opens the text by introducing/using [insert STOPSEC feature] in order to suggest/create...
This links to/is contrasted with the ending of the text,

where there is a shift in focus to...

Evidence:

For instance, this is seen when '...'
Analysis:

The use of ... creates a sense of... It tells us...

We are shown that... The ... develops...

This interests the reader because...

Notice: The analysis is NOT on words but on the effect of the structure and the impressions it creates for us.

Question 4 (30 mins, 20 marks)

Question stem: '[statement about the text]' To what extent do you agree?

Planning

 Read the question and highlight the key words, including the section of the text if specified. Think carefully about how far you agree with the statement.

Top Tip: Usually it is best to AGREE with the statement. But consider how far you agree. Is there evidence to argue against this opinion? Create a debate in your answer.

2. Draw a box around the section of the text if specified.

 Read through and highlight words/phrases/language devices you will use to argue FOR, and maybe against the statement.

Writing

 Aim for 3 PEAEALs in 20 mins. Pick out key words in each and explore their effect.

<u>Useful sentence starters</u> (see previous questions too – you can reuse these if appropriate!):

To some extent I agree with...

However, it could also be argued that...

Overall I garee that...

PROOF READ YOUR WORK!

(Allow 5 mins for this)

-Spelling inc. homophones e.g. to/too/two or there/their/they're

-Improve any dull words to make them more exciting!

Section B: Question 5 (45 mins, 40 marks)

Question focus: Writing to narrate (story) or describe.

Planning (THIS IS REALLY IMPORTANT!)

 Decide which task you would like to do (narrate or describe). There might not be a choice! Reminder of the structure for each below:

Describe		Narrate
Panoramic Zoom Zoom	Consider STOPSEC to structure your	Rule of 1: 1 setting, 1 character, 1 event, 1 hour
Zoom Panoramic	writing in both tasks!	Hook → Character intro → Development → Turning point → Resolution

2. Plan using the structures above. You should also consider:

-What good vocab could you use from the extract you have just read?

Writing Vary your sentence openers with verbs, adverbs, prepositions, adjectives. Use a semi-colon (instead of because)

Remember these things ->

Use plenty of description, even in a narrative.

Vary the length of your sentences (inc, at least 1 holophrastic phrase) and your paragraphs.

Commas after subordinate clauses

Variety of language devices

AQA English Language Paper 2 Section A

THE BASICS

- In June of your Year 11.
- Paper 2 is worth 50% of your English Language GCSE.
- Section A Reading is worth 25% of your GCSE and takes 60 minutes.
- You will be given two nonfiction texts to read: one modern, one 19th century.
- They will be on a similar topic.
- Section B Writing is worth 25% of your GCSE and takes 45 minutes.
- You have four questions to answer in Sec+on A Reading.
- You should use a highlighter to help you with this paper.

QUESTION 1 - 4 MARKS True or false?

What will the question look like?

A	Pandas are dangerous.	0
В	Pandas eat human flesh.	0
С	The man loves a panda.	0
D	China is made of Pandas.	0
E	We should do more to educate pandas.	0
F	The panda was driving under the influence.	0

- Be quick: it's only worth four marks.
- Read the questions and answers carefully: have you chosen the right lines?
- Have you spotted any trick questions?
 Running out of time? Have a guess and move on. You've nothing to lose.

QUESTION 2 - 8 MARKS Summary of comparisons

What will the question look like?

Read Source A and Source B. Write a summary of the differences in the pandas' habitats in zoos and in the wild.

- Highlight the key focus of the question: they do not just ask for a general comparison.
- This is basically a fact-based comparison— not attitudes or ideas. Look for quotations which allow you to show your intelligence, not the obvious.
- Show layers of interpretations but do not bother with technical terms.
- The question could ask you to compare differences or similarities.

How do I write it?

One difference is in Source A... while in Source B...

For example, in source A is tells us "quote". This implies...

In Source B it tells us "quote".

This implies... Another

(repeat).

difference is...

QUESTION 3 - 12 MARKS Language focus

What will the question look like?

Now look at Source B. Read lines 12 to 40. How does the write use **language** to make the zoo sound unpleasant?

- Highlight the key focus of the question: they do not just say "write about language".
- Highlight the techniques you can find which allow you to be able to discuss impressions, impact and connotations.
- Try to begin with word/meaning based points.

How do I write it?
To describe the zoo as the writer uses...
powerful verbs adjectives adverbs a simile repetition a list metaphor onomatopoeia

For example it says, ".....quote"

(Zoom in on a single word) The word "...." suggests... implies.. makes the reader feel/think... because ...

(repeat)

QUESTION 4 - 16 MARKS Attitudes and methods comparisons What will the question look like?

Compare the different attitudes to the topic in Source A and Source B.

- compare their attitudes
- compare the methods they use to present these attitudes
- Note down pairs of differing attitudes/feelings between the two sources; eg impressed/ disgusted, approving/shocked. They do not need to be opposites, just differences.
- For each pair, find language techniques and quotations to show how the writer communicates their attitudes/thoughts/feelings.
- This is the answer with the most marks in the Reading Section: it should be longer.
- The question could ask you to compare differences or similarities.

How do I write it?

One difference is that Source A has the attitude that... whereas Source B has more the attitude that...

For example, Source A tells us "..quote..." This suggests... This implies ... because... (Repeat).

Examples of attitudes/ feelings impressed by... concerned about... amused by... indignant about... shocked by... approving of... admiring of... critical of... frustrated by...

AQA English Language Paper 2 Section B

Overview: This task requires you to write an engaging article, speech or letter. The tasks are non fiction style but you can make up your facts and examples. You should make sure your tone and ideas are suitable for the audience you are writing for. The question will be on a similar theme to the texts you will look at in section A of the paper.

Marks available: 24 marks for content and organisation and 16 marks for SPaG accuracy.

How to revise:

- 1. Self quiz this knowledge organiser
 2. Self quiz and practise using the AFOREST techniques
 3. Plan and write your
- 'Cars are noisy, dirty, smelly and downright dangerous. They should be banned from all town and city centres, allowing people to walk and cycle in peace.' Write a letter to the Minister of Transport arguing your point of view on this statement.
- 'We should all have to give at least 10% of the money we earn to charity.'
 Write a speech for school arguing

Write a speech for school arguing your point of view on this statement.

Grade 8-9 tips:

answers to

questions

these practice

- -Use a blend of persuasive devices and figurative devices.
- -Try using humour and irony to create a convincing tone.
- -Regularly read opinion pieces (or columns) in the news.
- -Have one idea or image that you refer to throughout, or craft an extended metaphor.

Vocabulary	Meaning	Но
unorthodox	Unusual	Section
unquestionably	Definitely	The h a
ludicrous	Ridiculous	A pow introdu
extraordinary	Unusual	
nonetheless after all	In spite of	The b
indisputably	without doubt	knowle
ideology	System of beliefs	Appea heart: argum
status quo	The way things have always been	argum
ethics	Rules about right and wrong	Kick t oppos
hypocrisy	Claiming to be one thing but doing the opposite (to be a hypocrite)	argum pitch
paradox	A contradictory statement	Look
ambitious	Having desire to succeed	future:
usurp	Take by force	
treachery	Betrayal of trust	

How to Structure your Writing: The Body Plan

110W to Ottaott	are your writing. The L	body i lali
Section	Techniques	Paragraph Starter
The handshake : A powerful introduction	Direct address Refer to the purpose of the piece: (readers / audience / name of the person if it's a letter')	Imagine a world where
The brains of the matter: Sound knowledgeable	Facts and statistics The opinion of an expert	Evidently,
Appeal to the heart: An emotive argument	Emotive language Anecdote (personal or about a real/made up other person)	Take (me / name of person)
Kick the opposing argument off the pitch	Acknowledge the other side of the argument but state why your case is stronger	While some people may say
Look to the future: Finish with a call to action	Imperative language Refer to the purpose of the Readers, as you put down magazine I want you to Audience members. As you assembly hall today I wan (Name of person) as you this letter I want you to	n this you leave this nt you to

Act	Plot	Character			Vocabulary	Context	
	The play opens with a celebratory dinner party. Sheila and Gerald are engaged and Birling and Company will work closer with Crofts Ltd. On the surface, the atmosphere is happy and light-hearted.	The Inspector		us man who claims to be a ector. He is investigating the Eva Smith.	Capitalist: a business person	John B Priestley was born into a working class family in Yorkshire. Priestley was a socialist and concerned about social	
	The ladies leave the men to have a 'man to man' chat. Mr Birling lectures	Mr Arthur Birling A successful factory owner and head of the Birling family. He is well respected in Brumley.		Conservative: traditional values	inequality in Britain. During WWII he broadcast a popular weekly radio		
One	Gerald and Eric that a man needs to look after himself and his family and not worry about the wider community. Inspector Goole enters and informs the party that he has come to			Didactic : teaching (a moral lesson)	programme which was cancelled by the BBC for being too left wing . Priestley supported the Labour Party.		
Offe	investigate the suicide of a young working-class girl called Eva Smith. Starting with Birling, he begins to interrogate the family.	Mrs Sybil Birling	Women's C	ife. She is Head of the Brumley Charity and is obsessed with	Dramatic irony: when the audience	The Edwardian era – the play is <u>SET</u> in Britain in 1912. Thought of as a 'Golden	
	After seeing a photograph, Birling admits that he used to employ Eva Smith but discharged her when she became one of the ring-leaders of a strike		etiquette a	nd her status in society.	know something	Age' because it was a period of peace and	
	asking for higher wages. Birling refuses to take any responsibility.	Sheila Birling	_	s' daughter. She is in her early nd engaged to Gerald	that the characters do not	prosperity when Britain was powerful. In reality, there was a rigid social hierarchy and the lower and upper classes were very	
	Sheila enters and the Inspector moves on to question her. When she is shown a photograph of Eva, Sheila admits that it was her fault that Eva was sacked from Milwards. She feels terribly guilty and responsible for Eva's death. When the Inspector states that Eva, in despair, changed her	Eric Birling		s' son. He is a secret alcoholic. erit his father's business.	Elitist: one who believes that	divided. Only men who owned property could vote – no women were allowed to vote, and there was little help from	
	name to Daisy Renton, Gerald reaction reveals that he knew her too.	Gerald Croft	A wealthy	aristocrat of around thirty, the	society should be led by the upper	government for people in poverty.	
	Gerald's affair is exposed: he confesses that he met "Daisy Renton" at the local Variety Theatre bar and 'rescued' her from Alderman Meggarty.	Geraid Croft	son of Lord and Lady Croft, heir to Croft		classes	Post-war values – the play was WRITTEN in 1945. Britain had become a more equal	
	Gerald ended the affair when he had to go away on business. Sheila hands back her engagement ring but respects Gerald's honesty. In contrast to her daughter, Mrs Birling is scandalised. Gerald leaves to go for a walk.		Limited, and engaged to Sheila Birling		Empathetic: feeling / understanding for	society – by 1928 all men and women over 21 could vote. The country had been	
		Eva Smith / Daisy Renton	The victim of the play. We never see her. She might be lots of different girls – we		others	through two world wars and a global	
_	Inspector Goole now shows a photograph to Mrs Birling. She grudgingly admits that Eva had come to ask for financial assistance from the Brumley Women's Charity Organisation because she was pregnant. Mrs Birling was the chairwoman and persuaded the committee to turn down the girl's	can se		r as a symbol, an 'everyman'.	Euphemism: a soft	economic recession (1930s) which increased unemployment and poverty.	
Two		Edna The Birlings' parlour maid. She is the only working class woman on stage. She announces the Inspector's arrival.		word in place of a harsh one	People from different classes had fought together in the war – there was now a		
	appeal because she had the impudence to call herself Mrs Birling.			•	Foreshadowing: a	desire for change and a strong sense of collective social responsibility.	
	Mrs Birling shows no remorse for refusing to help Eva Smith. Mrs Birling denounces the father of the child, claiming it is his responsibility and that	Key Themes Responsibility AN IMPORTANT			warning of a future event	Key historical dates – 1912 – The sinking of the Titanic 1914-18 – WW1 in which Priestley served 1917 – The Russian Revolution	
	he needs to be made an example of. Sheila is horrified as she (and the audience) realises that Eric is involved. Eric enters.				Hierarchy: a society where people are		
	Eric confesses his involvement with Eva Smith: he had met her in the same bar, had got drunk and had accompanied her back to her lodgings where he	Social Class			ranked by status	1918 – Women over thirty /owned property were given the right to vote.	
	almost turned violent before she let him in. When she discovered that she was pregnant she refused to marry Eric because she knew he didn't love	Age (the generation gap) Gender			Infantilize : treat like a child	1928 – All men and women over 21 given the vote	
Thus.	her, but she did accept gifts of money from him until she realised it was stolen - Eric admits that he stole the money from Mr Birling's office.				Patriarchy: a	- 1936 – General Strike 1939-46 – WW2	
Three	The Inspector delivers his message about responsibility then leaves. Mr and Mrs Birling are concerned about covering up their involvement, whereas				society where men are in power	1945 – An Inspector Calls first performed in the Soviet Union (it was performed in	
	Sheila and Eric are aware of the personal tragedy and feel guilty. The Birlings gradually begin to question whether the Inspector was real.	Inequality			Socialist: one who	Britain in 1946 at the New Theatre in London) 1945 - Clement Attlee (Labour) wins a	
	Sybil and Arthur agree that it makes all the difference; Eric and Sheila disagree as even if he was a fake, what he's shown them is real.	Dramatic devices and terminology			believes in sharing of wealth in society	landslide victory against Winston Churchill (Conservative) in the General Election	
	Gerald re-enters. He has also had suspicions and found out that there is no Inspector Goole on the police force, which Birling confirms with a phone	Cyclical structure Lighting		Lighting	Social conscience: feeling responsible for others in society	19 – Welfare state culminates in creation of the National Health Service	
	call. The older Birlings, and Gerald, take this as a cue to alleviate any responsibility whereas the young are repentant and continue to protest	Stage directions	Stage directions Dramatic irony			Morality Play – religious plays written in the Middle Ages which teach the audience	
	that they need to learn a lesson about their responsibility. Then the telephone rings. Mr Birling answers it: an inspector is on his way	Props and costun	ne	Cliffhanger	Status quo: the existing state of	how to behave and warn against the dangers of sin. Priestley makes his morality	
	to ask questions about the suicide of a young girl	Symbolism		Entrances and exits	things	play secular by having the moral judge be a police inspector rather than God.	

Aspiration Creativity Character

Chapter	Plot	Character		Vocabulary	Context	
1 The Story of the Door	Passing a strange-looking door whilst out for a walk, Enfield tells Utterson about incident involving a man (Hyde) trampling on a	Dr. Henry Jekyll	A doctor and experimental	Protagonist: main character	Fin-de-siècle fears – at the end of the 19 th century, there were growing fears about:	
	young girl. The man paid the girl compensation. Enfield says the man had a key to the door (which leads to Dr Jekyll's laboratory)		scientist who is both wealthy and respectable.	Third person limited narrative: one	migration and the threat of disease; sexuality and promiscuity; moral degeneration and decadence.	
2 Search for Hyde	Utterson looks at Dr Jekyll's will and discovers that he has left his possessions to Mr Hyde in the event of his disappearance. Utterson watches the door and sees Hyde unlock it, then goes to warn Jekyll. Jekyll isn't in, but Poole tells him that the servants have been told to	Mr. Edward Hyde	unpleasant-looking man; an		Victorian values – from the 1850s to the turn of the century, British society outwardly displayed values of sexual restraint, low tolerance of crime,	
	obey Hyde.	Gabriel Utterson	unrepentant criminal.	Epistolary : written in the form of a letter	religious morality and a strict social code of conduct.	
3 Dr Jekyll was Quite at Ease	Two weeks later, Utterson goes to a dinner party at Jekyll's house and tells him about his concerns. Jekyll laughs off his worries.	Gabrier Otterson	A calm and rational lawyer and friend of Jekyll.	Ethics: morals	Victorian London – the population grew from 1 million in 1800 to 6.7 million in 1900, with a huge	
4 The Carew Murder Case	Nearly a year later, an elderly gentleman is murdered in the street by Hyde. A letter to Utterson is found on the body. Utterson	Dr. Hastie Lanyon	,		numbers migrating from Europe. As well as being one of the biggest and wealthiest cities in the	
imaraer ease	recognises the murder weapon has a broken walking cane of Jekyll's. He takes the police to Jekyll's house to find Hyde, but are told he hasn't been there for two months. They find the other half of		respectable doctor and former friend of Jekyll.	Atavism: reverting to something	world, it was rife with poverty and crime. Darwinism: te implications of Darwinism and	
	the cane and signs of a quick exit.	Richard Enfield	A distant relative of Utterson and well-known man about	ancestral/ancient Degeneration: moral	evolution haunted Victorian society. The idea that humans evolved from apes and amphibians led to worries about our lineage and about	
5 Incident of the Letter	Utterson goes to Jekyll's house and finds him 'looking deadly sick'. He asks about Hyde but Jekyll shows him a letter that says he won't be back. Utterson believes the letter has been forged by Jekyll to		town.	decline Primitive: belonging to	humanity's reversion to these primitive states (atavism).	
	cover for Hyde.	Poole	Poole Jekyll's manservant.		Duality – the idea that humans have a dual	
6 Remarkable Incident of Dr	Hyde has disappeared and Jekyll seems more happy and sociable until a sudden depression strikes him. Utterson visits Dr Lanyon on his death-bed, who hints that Jekyll is the cause of his illness. Utterson writes to Jekyll and receives a reply that suggests he is has fallen 'under a dark influence'. Lanyon dies and leaves a note for Utterson to open after the death or disappearance of Jekyll.			Duality : two-sidedness	nature was emerging towards the end of the 19 th Century. On one side was the rational, civilised	
Lanyon		Sir Danvers Carew	A distinguished gentlemen who is beaten to death by	Duplicity: falseness	self, and on the other side, a savage nature, repressed by society. As a child, Stevenson was	
			Hyde.	Masquerade: disguise	fascinated by the story of the notorious Deacon Brodie, who was a respectable member of	
	Utterson tries to revisit Jekyll but is told by Poole that he is living in isolation.	Mr. Guest	Utterson's clerk (secretary)	Disreputable : of a bad reputation	Edinburgh's society by day, however he led a secret life as a burglar and gambler by night.	
7 Incident at the Window	Utterson and Enfield are out for walk and pass Jekyll's window, where they see him confined like a prisoner. Utterson calls out and		and handwriting expert.	Metamorphosis: transformation	Dr John Hunter was a celebrated 18 th century surgeon. Like the fictional Dr Jekyll, His	
	Jekyll's face has a look of 'abject terror and despair'. Shocked, Utterson and Enfield leave.		D MR HYDE – Key Themes	Restraint: holding back	experimental methods were controversial to the medical establishment. He also dissected thousands of cadavers which means that he must	
8 The Last Night	Poole visits Utterson and asks him to come to Jekyll's house. The door to the laboratory is locked and the voice inside sounds like	Reputation / Respectability		Hypocrisy: when someone pretends to	have had close links with the criminal trade of body snatching. Stevenson possibly based Jekyll's	
	Hyde. Poole says that the voice has been asking for days for a chemical to be brought, but has rejected it each time as it is not pure. They break down the door and find a twitching body with a vial in its hands. There is also a will which leaves everything to Utterson and a package containing Jekyll's confession and a letter asking Utterson to read Lanyon's letter. 9 Dr Lanyon's The contents of Lanyon's letter tells of how he received a letter from Jekyll asking him to collect chemicals, a vial and notebook from		Science		residence, with his back entrance and laboratory, on Hunter's own residence.	
				Repression: holding something back	Robert Louis Stevenson was born and raised in Edinburgh. Edinburgh was a city of two sides - he	
1 '			The supernatural		was raised in the wealthy New Town area, but spent his youth exploring the darker, more sinister side of town.	
	Jekyll's laboratory and give it to a man who would call at midnight. A grotesque man arrives and drinks the potion which transforms him into Jekyll, causing Lanyon to fall ill.	Duality		Transgressive: breaking the rules	Gothic Fiction – a genre of literature which plays on the reader's fears to create a pleasing terror. It traditionally uses Gothic tropes such as remote	
10 Henry Jekyll's Full Statement of the Case	Jekyll tells the story of how he turned into Hyde. It began as a scientific investigation into the duality of human nature and an attempt to destroy his 'darker self'. Eventually he became addicted to being Hyde, who increasingly took over and destroyed him.	Secrecy DR.JEKYLL and MR.HYDE		Unorthodox: going against what's normal	settings, ancient curses and abandoned castles. Stevenson's fin-de-siècle Gothic uses an urban setting, and explores a monster which comes from the dark side of the human nature.	

Act	Plot	Characters		Key Dramatic Terms	Context	
	 The three witches plan to meet Macbeth on the heath Macbeth and Banquo are praised as brave and loyal warriors Macbeth and Banquo meet the Witches who reveal the first set of prophecies: Macbeth will be Thane of Cawdor, then King. They tell 	Macbeth	A brave and ambitious Scottish nobleman. He murders and usurps King Duncan . After hearing the witches' prophecies transform him from a loyal warrior to an immoral tyrant.	Aside - a character speaks to the audience	Tragedy – a play in which the protagonist meets their downfall, or suffers extreme sorrow. This is normally as a consequence of their own tragic flaw – hamartia – (a	
	 Banquo his descendants will be kings. Duncan makes Macbeth Thane of Cawdor. Macbeth starts to wonder in the Witches' prophecy about him becoming King will come true 	Lady Macbeth	She represents ambition, cunning, manipulation and guilt. She is a <u>rebel</u> , challenging the	Soliloquy - a character speaking their thoughts aloud	weakness, which under certain circumstances, is fatal for the protagonist).	
One	Lady Macbeth receives Macbeth's letter; and plans to manipulate Macbeth	IVIACDELII	submissive role of women and the divine right of kings.	Dialogue - conversation	King James I had recently ascended to the English throne and Shakespeare sought to impress him by addressing his interests,	
	 Duncan arrives at Macbeth's castle Macbeth's <u>soliloquy</u>. Macbeth tells Lady Macbeth he will not commit <u>regicide</u>, but she persuades him to go ahead with the murder and convinces him that they can frame Duncan's servants. 	King Duncan	He symbolises nobility, dignity and trust. A compliment to royalty, he is respected and trusting – but then betrayed.	Blank verse - unrhymed lines often written in iambic pentameter	such as kinaship and witchcraft. James I had a deep interest in the supernatural and had also recently survived the Gunpowder Plot to kill him. Therefore Shakespeare	
Two	 Banquo and Macbeth discuss the witches. Macbeth sees a vision of a dagger leading him to Duncan's chamber. Macbeth murders King Duncan and Lady Macbeth plants blood-stained 	Banquo	He symbolises nobility, loyalty and trust. Through his loyalty and rejection of the prophecies, he is a foil to the character of	lambic Pentameter - a line of verse with 10 syllables	depicts the devastating effects of <u>reaicide</u> in 'Macbeth'. The play also complimented the king's ancestry (Banquo, a noble character,	
	daggers on the servants; Macbeth begins to experience guilt, but Lady Macbeth manipulates him by questioning his courage and masculinity. • Macduff discovers Duncan's body. Macbeth and Lady Macbeth pretend to		Macbeth.	Prose - text without formal rhythm	was named after one of James' ancestors). The Great Chain of Being – in the Jacobean	
	be shocked. Duncan's sons, Malcolm and Donalbain flee from Scotland because they fear for their lives – this makes them look guilty Macduff suspects that Malcolm and Donalbain are responsible, allowing	be shocked. Duncan's sons, Malcolm and Donalbain flee from Scotland because they fear for their lives – this makes them look guilty Macduff suspects that Malcolm and Donalbain are responsible, allowing	be shocked. Duncan's sons, Malcolm and Donalbain flee from Scotland because they fear for their lives – this makes them look guilty Macduff suspects that Malcolm and Donalbain are responsible, allowing	tland Macduff and Lady Iowing Macduffs and Lady Macbeths: they are loyal; they are a loving family; Macduff and Lady Macbeths: they are loyal; they are a loving family;	Protagonist - leading	era, people believed that all life was part of a strict hierarchy, with God at the top. Kings were thought to have been chosen by God -
	Macbeth to take the throne Rosse and an old man discuss the strange and unnatural things that have been happening since Duncan's murder – the natural order has been	been	Tragic Hero - the protagonist in a tragedy	their ' <u>divine right'</u> meant that they had the right to rule directly from God's will. To challenge this hierarchy by <u>usurpina</u> the		
	disrupted. Macduff tells Ross that he isn't going to Macbeth's coronation, indicating he is suspicious of Macbeth.	Malcolm The son of Duncan. He flees after Duncan's murder, and becomes King at the end of the play.		Foil - contrasting character	king was to challenge God. Witches and the Supernatural – There was	
	 Banquo's soliloquy reveals that he is suspicious of Macbeth Macbeth is anxious about Banquo because of the Witches' prophecy and orders assassins to murder Banquo and his son, Fleance Macbeth tells Lady Macbeth about his guilt and hints at his plan for Banquo and Fleance – he is now keeping secrets from his wife 	The Three Three Witches They represent the supernatural, evil and equivocation. The witches' prophecies never give the full answer (they 'equivocate') and therefore tempt Macbeth towards his tragic end.	Hubris - excessive pride	real superstition and anxiety about the evils of witchcraft. King James had previously		
			the full answer (they 'equivocate') and therefore	Key Thematic Terms	written a book called 'Demonology' which was a study of the evils of magic. He also asked Parliament to pass an anti-witchcraft	
	 Banquo is murdered, but Fleance escapes! Macbeth learns of Fleance's escape and then sees Banquo's ghost at the 	M	ACRETH Voy Thomas	Malevolent - evil	law, which he then used to execute a number of witches in the North Berwick	
Three	 banquet he is hosting – his reaction reveals his guilt to his guests The witches meet with Hecate, the Goddess of witches 	Ambition		Paradox - contradiction	Witch Trials.	
111100	 Lennox and another lord suspect Macbeth of murdering Duncan and Banquo. They say that Macduff is raising an army to attack Macbeth and 			Dichotomy - separation	The Gunpowder Plot. In 1605, a group of rebels, including Guy Fawkes, attempted	
	put Malcolm on the throne			Equivocation - unclear	regicide by plotting to blow up Parliament. Shakespeare shows how those who commit	
	 Macbeth visits the Witches again; they summon three apparitions which each tell another prophecy: one, beware Macduff; two, no one born from 	Loyalty	vs. Betrayal	Prophecy - prediction	regicide will be tormented by guilt and ultimately meet a tragic end.	
Four	a woman can harm him; three, he can't be beaten until Birnam Wood moves to Dunsinane Hill.	Kingship Gender (masculinity / femininity)		Regicide - killing the King	The Role of Women – Society was 'patriarchal' (led by men). Women were	
Tour	 Macbeth sends murderers to kill Macduff's wife and children. In England, Macduff proves his loyalty to Malcolm. Malcolm reveals that 			Revenge - payback	said to be lower than men in The Great Chain of Being. A woman's role in Jacobean	
	the English King has given him soldiers to fight Macbeth. Macduff learns of his family's murder. He and Malcolm vow <u>revenge</u> on Macbeth.			Superstition - belief in magic or chance	times was clearly defined. They were expected to marry, to bear children and be subservient to men. Women who challenged	
Five	Lady Macbeth has gone mad. She sleepwalks and keeps washing invisible blood from her hands. She is weakened by guilt.		pernatural	Ambition - desire to achieve	this concept were sometimes labelled as witches and ostracised from society, or	
	 The Scottish lords plan to meet the English army at Birnam Wood Macbeth hears about the approaching English army but he isn't scared because of the Witches' prophecies. 	I THE Sup		Treachery - betraying trust	worse	
	Malcolm tells the soldiers to cut down branches from Birnam Wood and	Fate vs.	Freewill	Tyrant - cruel leader	The real Macbeth: Shakespeare wrote 'Macbeth' in 1600s, but he based it loosely	
	 hide behind them as they march towards Macbeth's castle. Macbeth prepares for battle; he finds out that LM has killed herself Macbeth and Macduff meet on the battlefield. Macbeth discovers that 			Usurp - take over	on historical events – a man called Macbeth was King of Scotland in 11 th Century. The	
	Macdeff and Macdeff fleet of the patterield. Macdeff discovers that Macdeff was born by caesarean. They fight and Macbeth is killed. Malcolm is made King of Scotland.	Guilt		Patriarchy - society ruled by men	setting is a heroic culture where masculinity must be won, maintained and defended.	

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Content, meaning and purpose:

The speaker sits in a woodland grove and describes the nature that can be seen around him and links his soul to nature. The speaker describes how man has fallen out of the natural rhythm of nature.

Themes: place, identity, natural world, memory

Lines Written in Early Spring - William Wordsworth

Context:

-Wordsworth is a Romantic poet. Romantic poets celebrate nature over industry (The Industrial Revolution)

Tone: somberness, disappointment

-The sombreness of the poem reflects Wordsworth's own personal and political disappointments with the world.

England in 1819 - Percy Bysshe Shelley

Themes: place, oppression

Tone: anger, frustra

Content, meaning and purpose:

A political poem that criticises the condition of England in 1819. The monarchy and the government are criticised and the difficult living conditions of the poor are exposed.

Context:

- Romantic poet
- Shelley refers to Kin 'mad king', Prime M and the Peterloo Ma
- If you published thi were at risk of being

Language:

'Soul' 'belief' 'heaven' 'holy' Religious semantic field reflects devotion to nature.

'What man has made of man' is repeated, the verb 'made' implies that humans are responsible for moulding their own corruption.

Form and structure:

- -Pastoral poem (poetry that idealises country
- six stanzas each written in quatrains: this could reflect the consistency and harmony of the natural world.

Language:

'Leechlike to their fainting country cling' simile suggests that rulers are taking resources from the starving poor.

Personification 'fainting' highlights the ill state of England.

Form and structure

- -Sonnet form using
- Breaks away from structure in the midd
- -Final rhyming coup national redemption

Shall earth no more inspire thee - Emily Brontë

Themes: memory, natural world, loneliness

Tone: melancholy, encouragement

In a London Drawing room - George Eliot

Themes: Loneliness,. natural world, oppression

Tone: critical, scathi

Content, meaning and purpose:

The poem appeals to its subject to find comfort in nature during a dark period in their life to help them find peace. Published in 1846 it reminds us that nature has always been a comfort.

Context:

- -Bronte experienced loss in her life (mother & two sisters)
- -Wrote under her pseudonym 'Ellis Bell' as it was harder for women to be published in the Victorian era

Content, meaning and purpose:

A summary of someone's experience of the landscape in London through the window in their drawing room. It critiques the darkness and pollution that seem to hide the natural world.

Context:

- -Critiques Victorian the impact of the Inc
- -George Eliot was M name - she chose to women writers were

Language:

- -two rhetorical questions in first stanza
- -'I know my mountain breezes' Possessive 'my' suggests it could be the earth or the speaker speaking.
- 'sinks' and 'summer' sibilance is soft and soothing

Form and structure:

- -7 stanzas of 4 lines and an ABAB rhyme scheme creating a smooth but energetic and firm rhythm
- -1st stanza in second person narrative as a direct plea to the subject expressing their concern for their mental wellbeing

Language:

- "..line of wall/ like sold fog" simile reflects the dense and unforgiving atmosphere
- 'Bird' symbolises freedom and nature which is unable to exist
- 'One huge prison house and court' metaphor symbolises the lack of freedom and humanity.

Form and structure

- Use of blank verse and one unbroken stanza helps reflect the relentless and unchanging reality of urban life in Victorian London.

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On an Afternoon Train from Purley to V	ictoria, 1955 - James Berry	Name Journeys - Raman Mundair				
Themes: journeys, prejudice, place, identity	Tone: melancholy, calm, positive	Themes:place, identity	Tone: reflective, critical			
Content, meaning and purpose: Berry confronts ignorant, unintended racism and observes some of the cultural confusions in 1950s Britain. On a train, a Quaker women sit next to him and engages in an ignorant conversation.	Context: -Berry is from Jamaica - He moved to England during the wave of immigration from the West Indies led by the Empire Windrush -Quakers are known to promote equality	Content, meaning and purpose: The speaker talks about their past and the imand beauty of traditions associated with their names and cultural events. The speaker travelled from The Punjab to the UK and they reflect on their accent becoming mingled with the Mancunian accent.	Context: -Rama is a Hindu Deity who was exiled and Sita was his wife. Draupadi is viewed as brave and beautifulMundair was born in India and raised in Manchester and Leicester			
Language: "I was thoughtful" - repeated twice, reflecting the power of silence. "Sunny country" - simplicity of of this noun phrase emphasises the woman's ignorance of Jamaica "Us." Last word suggests unity rather than division.	Form and structure: -third stanza uses a flashback which creates a sense of nostalgia - structure is simple using free verse reflecting the simplicity of the interaction	Language: -'spiritual sari sisters' 'silk' 'swathe' sibilance emphases the connection between her and Sita - and her culture'my name became a stumble' a metaphor for the possible ignorance that was encountered from those who did not pronounce her name correctly.	Form and structure: -the repeated use of two line stanzas could reflect the intertwining of two culturesthe mix of enjambment and end-stopped lines reflects the varied rhythm of speech.			
pot - shamshad khan		A Wider View - Seni Seneviratne				
Themes:identity,journeys,place,oppression	Tone:critical,humorous,demanding	Themes: relationships, identity, memory	Tone: reflective, nostalgic			
Content, meaning and purpose:	Context:	Content, meaning and purpose: The speaker recalls her great great grandfather's	Context:			

The speaker directly addresses a pot and imagines how it might have felt being taken from its home in Nigeria and placed in a strange place (The Manchester Museum)

-the pot is used to comment identity, colonialism, migration and the slave trade.
-Khan identifies with the pot's pain and dislocation - her parents migrated from Pakistan

The speaker recalls her great-great grandfather's wish to escape the polluted city that he was born in. They describe his journey home from Leeds during the Industrial Revolution in Victorian Leeds.

-the poem is set in Leeds in Northern England and references several places within the city as it comments on the impact of the Industrial Revolution. -poet has Sri Lankan & English heritage

Doet has on Lankan & English hen

Language:

- -'Pot' is a metaphor for those who have also been wrongfully displaced or imprisoned
- -'more asian than the asian's pot' humorous tone encourages the listener to reflect on the impact of diaspora (the dispersion of people from their original homeland)

Form and structure:

- -there is a one sided central 'conversation' where the pot is unable to respond, perhaps reflecting its powerlessness
- -fragmentary structure using free verse and therefore not conforming to set 'rules'

Language:

- -'searched for spaces/in the smoke-filled sky to stack his dreams' creates an image of longing for more within a society that runs on limitations.
- -'Stack his dreams' metaphor that mirrors the semantic field of industry and work.

Form and structure:

-the last two stanzas switch to modern day Leeds where the speaker reflects on their experiences and the last stanza connects both of these time periods.

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Homing - Liz Berry		A century later - Imtiaz Dharker	
Themes: place, identity, relationships, memory	Tone: critical, reclamation	Themes: identity, oppression,change	Tone: disturbing, triumphant
Content, meaning and purpose: The speaker explores the restrictions of the black country dialect within the education system. The speaker explores their hometown in the black country.	Context: Liz Berry was born and raised in the Black Country, near Birmingham. The region has a strong influence on many of her poems.	Content, meaning and purpose: The poem explores the female struggle historically and across the globe to access an education. It explores how knowledge is power, and it compares the battleground of the school to the more traditional battleground of armed warfare and the conflict between opposing soldiers.	Context: The poet alludes to the the shooting of Malala Yousafzai in 2012. The poem was written in 2014, 100 years after the start of the First World War.
Language: "Coal" "railway" "blacksmiths furnace" industrial imagery of the speakers hometown "Box" The speaker uses a box as a metaphor to symbolise the struggles faced with her identity.	Form and structure: -First person narrative perspective -Written in free verse - reflecting that they are not conforming to 'standard' structures -Consists of 25 lines arranged into five stanzas of equal length.	Language: -"Battle" "firing-line" "missiles" semantic field or war/battlefield to draw comparison to the struggles young people are facing.	Form and structure: -Quatrain stanzas -Two couplet stanzas - The lines are structured with short and concise statements, reflecting a straightforward and assertive tone.
The Jewellery Maker - Louisa Adjoa Parker		With Birds You're Never Lonely - Raymond Antrobus	
Themes: natural world, relationships,identity	Tone: calm, enamored	Themes: damage to the natural world, memory, loneliness	Tone: overwhelmed
Content, meaning and purpose: Parker explores the day and life of a male jewellery maker who takes great pride in his world. The poem explores the beauty of his work using vivid imagery of the natural world.	Context: -English-Ghanaian heritage who lives in South West England -Adjoa Parker gives voice to rural racism, black history, mental health and marginalisation.	Content, meaning and purpose: The poem explores the importance of living within a nurturing environment. The speaker shares their experience in the Zelandia forest and compares the calming and culturally enriching environment bustling nature of inner cities.	Context: Raymond Antrobus was born in Hackney, London, in 1986 to a Jamaican father and an English mother. Although he was born deaf, this was not discovered until he was six years old.
Language: -"flowers bloom; silvery moons wax and wane" - vivid imagery of the natural world -"the way a surgeon might – neat as soldiers." simile highlights the care and precision taken in his work.	Form and structure: Three stanzas - two six line stanzas -Final stanza has seven lines -lack of regular rhyme and rhythm and use of enjambment_mirrors the movements of the jewellery maker	Language:"spoons slam, steam rises" sibilance highlights the overwhelmingly harsh nature of the sensory overload in the city	Form and structure: -Written in couplets, -Final single line may be a warning to those who fail to embrace the natural world.

A Portable Paradise - Roger Robinson		Like an Heiress - Grace Nichols	
Themes: relationships, prejudice, place, identity memory	Tone: enamored, nostalgic	Themes: identity, place, identity, damage to the natural world	Tone: disappointed, nostalgic
Content, meaning and purpose: This poem is about holding onto paradise in the midst of an environment that seeks to steal or quash it. The speaker references their grandmother encouraged them to hold onto this peaceful paradise.	Context: -Robinson was born in 1967 in Hackney, East London but move to Trinidad at the age of fourHis poems explore Recurring themes in Robinson's work are the power of identity, Black culture and appreciation of the everyday items.	Content, meaning and purpose: Nichols returns to her home nation (Guyana) where she notices that she feels less immersed in her culture. Rather, she sees herself like a 'tourist' in her home country. Nichols also explores the damaging effects climate change has on the	Context: -Grace Nichols was born in Guyana in 1950Nichols is known for inciting critical thinking and change on major social topics such as police brutality, gentrification and climate change.
Language: "white sands, green hills and fresh fish." - imagery of the natural world, hinting at a tropical country "hum its anthem under your breath." - Personifying the paradise to encapsulate the poets links to identity and belonging	Form and structure: -The poem is part of an extract from a longer poem but also functions as a self-contained stand-alone entryThe use of caesura and enjambment provides its loose, conversational feel.	Language: "Like an heiress" simile highlights her pride in her identity but also her disconnect from her homeland. "Wave of rubbish" metaphor emphasises the poets disdain for the treatment of the planet by humans.	Form and structure: -Sonnet form -the poem starts off in iambic pentameter but shifts to free verse -poet trying to distance herself from western ideas/ structures

Thirteen - Caleb Femi

Themes:relationships,journeys,place,oppression,id entity

Tone: Innocence, questioning

Content, meaning and purpose:

The speaker recounts his experience being questioned by police for the crime of a man when only 13 years old. The poem explores the structural racism: specifically the police.

Language:

- -"Supernovas" "little stars" semantic field lightness contrasted with darkness.
- -"Fed" colloquial language uses to encapsulate the poets strong tie to his identity

Context:

Caleb Femi was born in Nigeria in 1990. He emigrated to the UK at the age of seven and lived in Peckham.

Form and structure:

- The poem is written in free verse and split into four uneven stanzas with an irregular meter.
- The narrative form captures colloquial speech across London.



Big concepts:
Humans' impact on the environment
Systemic Racism
Identity and belonging
Power and Oppression
Colonialism
Reform and Revolution
Prejudice
Migration
Romanticism

Anchor Poems

Thirteen - Caleb Femi

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"Supernovas" "little stars" semantic field of lightness contrasted with darkness.

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Like An Heiress - Grace Nichols

Nichols returns to her home nation (Guyana) where she notices that she feels less immersed in her culture. Rather, she sees herself like a 'tourist' in her home country. Nichols also explores the damaging effects climate change has on the planet. Grace Nichols was born in Guyana in 1950. Nichols is known for inciting critical thinking and change on major social topics such as police brutality, gentrification and climate change.

"Like an heiress" simile highlights her pride in her identity but also her disconnect from her homeland.

"Wave of rubbish" metaphor emphasises the poets disdain for the treatment of the planet by humans.

A Portable Paradise - Roger Robinson

This poem is about holding onto paradise in the midst of an environment that seeks to steal or quash it. The speaker references their grandmother encouraged them to hold onto this peaceful paradise.

"white sands, green hills and fresh fish." - imagery of the natural world, hinting at a tropical country

"hum its anthem under your breath." -

Personifying the paradise to encapsulate the poets links to identity and belonging

England in 1819 - Percy Bysshe Shelley

A political poem that criticises the condition of England in 1819. The monarchy and the government are criticised and the difficult living conditions of the poor are exposed. Shelley is a Romantic poet and refers to King George III, the 'mad king', Prime Minister Lord Liverpool and the Peterloo Massacre. If you published this poem in 1819, you were at risk of being imprisoned.

'Leechlike to their fainting country cling' simile suggests that rulers are taking resources from the starving poor.

Personification 'fainting' highlights the ill state of England.



Contextual concepts

Humans' impact on the environment: Humans impact the physical environment in many ways: overpopulation, pollution, burning fossil fuels, and deforestation. Changes like these have triggered climate change, soil erosion, poor air quality, and undrinkable water.

Systemic Racism: Policies that exist throughout a whole society or organization that result in and support a continued unfair advantage to some people and unfair or harmful treatment of others based on race or ethnic group.

Identity and belonging: National and cultural identity is explored as something that can create a sense of belonging, but can also alienate and exclude where diversity is not recognised and celebrated.

Power and Oppression: Many of the poems explore misuse of power and privilege by rulers, nations and individuals. We see the impact on both individuals and communities.

Colonialism: A practice or policy of control by one people or power over other people or areas, often by establishing colonies and generally with an economic aim. The British Museum holds many artefacts as a result of colonial exploitation of people and countries.

Reform and Revolution: Some people in society help lead societal reform (change) that challenges current government rules and societal norms. Malala Yousafazi speaks out about girls education and many climate justice and anti-racism groups, such as Black Lives Matter, speak up against current societal injustices.

Prejudice: A negative attitude toward an individual based solely on one's membership in a particular social group. Many of our poets have faced prejudice because of their race, class, culture or gender.

Migration: People may have to negotiate loss and separation from country of origin, family members and familiar customs and traditions; exposure to a new physical environment; and the need to navigate unfamiliar cultural experiences.

Romanticism: Romanticism describes developments in literature, art and music in the late 18th and early 19th century. Some key Romantic ideas include a focus on the power of nature, imagination, revolution, the world of children and the lives of people marginalised in society.

Key vocal	oulary and definitions
Industrial Revolution	Move to new methods of manufacturing (factories) in the period from about 1760 to sometime between 1820 and 1840.
liberticide	Destruction of freedom
Punjabi	The language spoken in the Punjab region of India
Echo chamber	An environment where people only encounter beliefs that reflect their own
Rama & Sita	Hindu Gods
exploit	To take advantage of for own gain.
artefacts	An object of historical or cultural interest
diaspora	The scattering of people away from where they originally lived
elocution	Standard forms of pronunciation
nostalgia	A sentimental longing or affection for a period in the past.
Heiress	A women who inherits considerable wealth
oppression	Cruel or unjust treatment.
perspectives	Viewpoints or outlooks.
supernova	When a star's life ends in a bright explosion
revolution	An overthrow of government or power.
tyrant	A cruel and oppressive ruler.
Quakers	Followers of a religious movement that came from Christianity in 17th century England.

190	WILL.
	e in

Worlds and Lives Poetry

		1 ! 0	
		Lives Poetry	M
	Poetic features	devices and suggested effects	
	1st person narrative voice	We see from only one person's point of view - is it biased? Reliable? More	On
		personal?	Op
	2nd person narrative voice	Speaks directly to the reader - challenging? Pleading? Forceful?	en
	3rd person narrative voice	Tells a story that happens to others. Can suggest the narrator is omniscient or	Ox jux
		god-like and all-knowing.	Pe
	Alliteration	The repetition of identical consonant sounds at the beginning of words. Can	Ро
		help to create the mood or tone.	Re
	Anaphora	Repetition of the same word or phrase at the beginning of a line throughout a poem.	Rh
	Caesura	A pause or stop in the middle of a line of poetry. This can be shown by a full stop,	Sh
		comma, dash or colon.	Sin
_	Couplet	Two successive rhyming lines. Couplets end the pattern of a Shakespearean	So
		sonnet.	Sp
	Enjambment	Sentences running over onto the next poetry line. Can suggest spontaneous, unplanned thoughts.	Sta
_		<u> </u>	

	Poetic features, de	vices and suggested effects
	Imagery	Language that creates a picture in our mind to help convey the ideas of attitudes of the poem.
	Metaphor	A comparison between two unlike things, this describes one thing as if it were something else.
	Onomatopoeia	Helps create a vivid image of something by appealing to the senses
	Opening and ending	How does the poem begin: what impact does it try to create? How does it end? Does it link to the beginning?
	Oxymoron / juxtaposition	Emphasises a contrast, highlights an idea, or creates a sense of confusion
	Personification	Attributing human characteristics to nonhuman things.
	Powerful words	What do you associate with them / what feeling do they create?
	Repetition	Draws attention to a key word or phrase - why is that important to the poem?
	Rhyme	Can emphasise a keyword - explain why that word is significant.
	Short sentences	Creates and builds tension. If repeated can add excitement and build pace.
	Simile	A direct comparison between two dissimilar things; uses "like" or "as".
	Sonnet	A poem with fourteen lines of rhyming iambic pentameter.
_	Speaker	The voice / narrator of the poem.
	Stanza	What we call paragraphs in poems. The meters and rhymes are usually repeating or systematic.

Year 11

Food Preparation & Nutrition

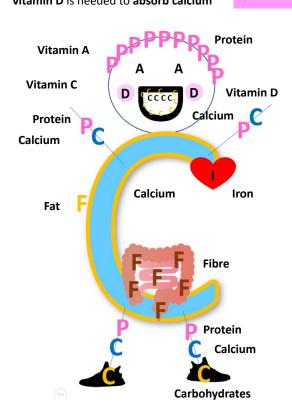
Macronutrients: Nutrients that are needed in large amounts
Micronutrients: Nutrients that are needed in small amounts

Complementary Actions: Some nutrients need to work together for the body to utilise them fully. For instance Vitamin c is needed to absorb iron and vitamin D is needed to absorb calcium

Protein	١
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Proteins fall into 2 groups: HBV (High Biological Value) and LBV (Low Biological Value). HBV contain all the essential amino acids that the body needs whereas LBVs are missing more than one.

HBV: Meat, Diary, Fish, Eggs, Chicken, Quorn, Tofu, Soya **LBV:** Chickpeas, Lentils, Nuts, Kidney beans, cereals (wheat, rice etc) and peas.



Try to remember the Nutrients person, when thinking about the functions of nutrients in the body

Vitamin A: needed to maintain healthy eyes & see in dim

light.

Vitamin C: needed by the body to fight infections. Most fruit contains vitamin C, especially citrus fruits.

Needed also to absorb iron

Vitamin D:

Needed by to maintain healthy skin

And needed to absorb calcium

Nutrient	Function	Source
Carbohydrates	-Broken into Starch and Sugar -Starch foods are called complex carbohydrates and release energy over a long period of timeSugar are called simple carbohydrate. They release energy quickly. Lactose, Fructose and Sucrose are all Sugars.	
Fibre	-Prevents constipation -Absorbs poisonous waste from digestive food -Stays undigested but helps move digested food through our system	
Protein	-Helps repair and grow new cells (muscles and body tissue) -Provides some energy	
Fat	-Insulates the body from the cold -Cushions your bones and organs from any damage caused by knocks. -Stores energy	
Vitamins	Unlike the other nutrients, they are only needed in small amounts. They are generally used to: -Controls chemical reactions -Keeping the body healthy and preventing some diseases linked to a poor diet -Regulate the function and repair of cells	tamin D Vitamin C
Minerals	Unlike the other nutrients, they are only needed in small amounts. They are generally used to: -Turn the food we eat into energy -Build strong bones and teeth - Control body fluids	WIII
Water	-Our bodies are 65% water. It is vital for our body to stay hydratedChemical reactions in our cells take place in waterWaste products are passed out of our bodies in waterOur blood transports substances that are dissolved in waterWater is in sweat that cools us down	Buxton

Whole grain

foods are high in fibre. It can also be found in the skins of fruits

Saturated fats = bad fats. Found in meat, dairy, processed and fried foods

Unsaturated fats = good fats.

Both should be eaten in small amounts as fat is energy dense

Iron found in red meat and spinach. Needed to create red blood cells.

Vitamin C is needed to absorb iron

Calcium found in all diary foods. Needed to grow and maintain bones, teeth and fingers nails.

Vitamin D is needed so calcium can be absorbed

Function of Ingredients

*A foam is air suspended in a liquid

Warm Water + Yeast + Sugar = Activates the <u>yeast</u>

Warm water provides the correct temperature for the yeast to work and the sugar provides food

Eg. FLOUR

Egg Whites + Whisking = Creates and Stabilises a *Foam

Butter + Creaming Technique = Traps air and aerates the mixture

Heat = Caramelisation: change in taste, the food becomes sweeter

Heat = <u>Dextrinisation</u>: when dry heat reacts with starch (so when a cake goes in the oven), the starch starts to break down into dextrins causing the outside to go <u>brown</u>

Liquid + Heat = <u>Bulking</u>: when a starchy food like potatoes or pasta absorbs water and as a result increases in volume, getting bigger as well become more soft in texture

Liquid + Heat = Gelatinisation: when flour or potatoes are added to <u>thicken</u> a sauce or soup. The starch molecules <u>absorb</u> the liquid and get bigger and burst causing the sauce to thicken.

Water = Combines Ingredients

Water = Creates GLUTEN

GLUTEN + Kneading = stretched gluten, increases <u>elasticity</u> and creates gluten <u>network</u>

GLUTEN + <u>Heat</u> = Coagulation: causing the structure to set

GLUTEN + <u>Butter</u> (through the Rubbing in technique) = Creates a waterproof coating preventing water from being absorbed and therefore shortening or limiting the amount of gluten developed. Resulting in a crumbly texture, e.g. Mince Pies

GLUTEN / Butter = Butter in between layers of gluten, separates the layers of dough/layers of gluten. Resulting in a <u>flaky</u> texture. Eg Sausage Rolls

Gluten is a type of protein found in wheat

Eggs are also a common protein used in cooking

PROTEIN

PROTEIN + HEAT or ACID or AGITATION = DENATURATION: The chemical bonds holding the chains of amino acids <u>break</u> causing a the chains to unravel and making the protein molecule <u>bigger</u>.

DENATURED PROTEIN MOLECULE + HEAT = COAGULATION: This sets the structure of the protein. Can trap moisture and other <u>ingredients</u> in this process.

Challenges in the human environment - The changing economic world

Development is a term that measures how advanced a country is compared to others. It relates to standard of living, quality of life and wealth.

- **GDP (Gross Domestic Product):** The total value of goods and services produced by a country in a year
- Life expectancy the average age to which a person lives
- **Infant mortality rate** counts the number of babies, per 1000 live births, who die under the age of one.
- **Poverty Line:** the minimum level of income to meet a person's basic needs. The World Bank considers this to be \$1.25 per day.
- **Dependency ratio:** the proportion of people who are too young (0-14) or too old (over 65) to work."It is calculated by adding both groups together and dividing that by the number aged 15-64 (the working population) and multiplied by 100. The lower the number, the greater the number of people able to work.
- Literacy rate: is the percentage of adults who can read and write.
- Maternal mortality: The number of mothers per 100000 who die in childbirth.
- Access to safe drinking water: the percentage of the population with access to an improved water supply.

The Human Development Index (HDI)

Some countries with a high GDP have a very unequal distribution of wealth e.g. Qatar and the United Arab Emirates The UN created the HDI to measure development. It consists of a single figure between 0 and 1 (the higher the number, the better). HDI is calculated using three indicators. These are: life expectancy, literacy rate & years of schooling & GDP per capita (using PPPS). GDP and HDI are closely linked - poorest countries in the world for GDP have the lowest HDI.

Factors contributing to development

Trade: Trade and investment play a key role in economic development. Investment is important in increasing its trade. However, 2 billion people live in countries where trade has fallen in relation to national income. This results in less links to global systems and therefore means less FDI for the country.

Fair Trade: Poor countries argue that world trade is unfair. Under fair trade small-scale producers group together to form a cooperative. The cooperatives cut out the 'middlemen' and deal directly with companies in developed countries. This gives farmers more money and therefore a better standard of living. They also then have additional money to reinvest into their farms.

Aid: assistance in the form of grants or loans at below market rates. Aid forms a vital part of the income for many poor countries. Most developing countries have been keen to accept foreign aid for several reasons:

Foreign exchange gap: countries do not have enough money to pay for imports e.g. machinery that is needed for development

Technical gap: caused by a shortage of skills needed for development

Two types of international aid: official government aid and voluntary aid. What is important is how the aid is spent, not necessarily the amount. Critics of foreign aid say it can be wasteful and create a culture of dependency

Importance of remittances: International migrants send money back to their families in the country of origin. These remittances can be very important in fighting poverty and helping economic development.

Debt relief: Western governments (USA) encourage conservation by agreeing to cancel some of the debt they are owed if the other country (Costa Rica) spends that money protecting their environment. Heavily Indebted Poor Countries (HIPC) Initiative established by the IMF and World Bank approves debt reduction in developing countries. 36 countries, with debts of US\$7 billion have had debt-service relief since 1990.

Consequences of global inequality

Economic - About 1 in 5 of the world's population live on less than \$1 a day, almost half on less than \$2 a day. Developing countries frequently lack the ability to pay for food, agricultural innovation and investment in rural development.

Social - More than 775 million people in developing countries cannot read or write. Nearly 1 billion people do not have access to clean water or sanitation. Many developing countries do not have the ability to combat the effect of HIV / AIDs.

Environmental - Developing countries have increased vulnerability to natural disasters. They lack the capacity to adapt to climate-change-induced droughts. Poor farming practices lead to environmental degradation. Raw materials are exploited with limited economic benefit to developing countries and little concern for the environment.

Political - Some developing countries have non-democratic governments or they are democracies that function poorly.

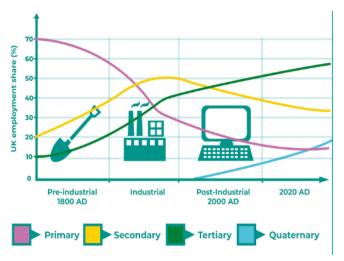
Migration International migration can be a major consequence of inequality between countries. Globalisation has led to increased awareness of opportunities in developed countries. With advances in transportation and a reduction in the relative cost, the potential mobility of the world's population has never been higher

High income countries (HICs)	Newly emerging economies (NEEs)	Low income countries (LICs)
GNI per capita is higher.	Increasing GNI per capita due to a move from agricultural economies to manufacturing.	Lower GNI per capita.
Most people have very high living standards.	Living standards are improving.	Most people have very low standards of living.

Source: Oak National

Case study: UK Economy

There are four main employment sectors and the numbers of people employed in them changes over time.

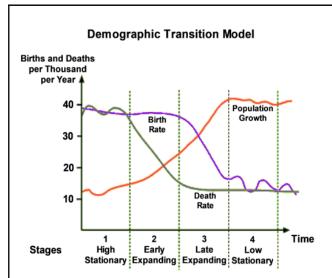


Source: Oak National

The UK's economy was once based upon manufacturing but this has declined and tertiary and quaternary sectors are now the biggest sectors.

Recent economic change has been affected by:

- 1. De-industrialisation
- 2. Globalisation
- 3. Government policies.



The DTM shows changes over time in the population of a country. It is based on the changes that took place in Western countries such as the UK. The gap between the birth rate and death rate is called **natural change**.

Reducing the development gap

Investment - many countries and TNCs invest in LIcs/NE's providing employment and leading to the multiplier effect as infrastructure is developed. However this can have social consequences with poor working conditions and the impact of **neo colonialism**.

Tourism - for some countries tourism has helped to reduce the development gap. If a country becomes highly dependent on tourism this has disadvantages during economic recessions and global pandemics.

Aid - there are different types of aid including, money (grant) emergency supplies, skills which can be donated on a short term or long term basis. Tied aid is given with certain conditions such as spending the aid money on the donors resources.

Intermediate technology - this is suitable technology that is appropriate to the skills, knowledge and wealth of local people which often takes the form of small scale projects for example <u>bottle lights</u> in the Philippines.

Free trade - tariffs and quotas imposed disadvantage countries producing low value goods and widen the development gap. Free trade occurs when they are not imposed.

Exploring Nigeria

Loacton: West Africa

Global importance: NEE, supplies 2.5% of the world's oil,. 5th largest contributor to the UN. **Importance in Africa**: It has one of the fastest growing economies, 3rd largest manufacturing sector, largest population of any African country of over 182 million. Highest farm output in Africa.

Nigeria context

Social: multi ethnic & multi faith. population growth rate of 2.6% per year. Internet users 42%.

Economic: GNI per capita \$5700 46% of the population are in poverty (UN defined). There are huge regional variations in levels of wealth. 60% of children in urban areas have access to free schooling compared with 36% in rural areas.

Environmental: Wide range of ecosystems from lowlands with high temperatures and

Impacts of TNCs in Nigeria

- 40 TNCs operate in Nigeria
- Provide employment, new skills and develop infrastructure
- Local workers are sometimes poorly paid & poor working conditions
- Unilever employs 1500 people and was voted the second best place to work in Nigeria in 2014.
- Oil is extracted from the Niger Delta by Shell, bringing major tax contributions and supporting the growth of the energy sector but oil spills have caused high levels of pollution.



Source: Oak National

high annual rainfall to Northern Nigeria where there is semi-desert and grasslands.

Political: Gained independence from Britain in 1960. Cicla war between 1967-1970. Stable government since 1999. Many countries including China are now investing in Nigeria.

Cultural: has a rich and varied culture.
Nigerian cinema 'Nollywood' is the second
largest film industry in the world. Globally
famous writers include Chimananda Ngozi
Adichie & Wole Soyinka. The Nigerian football
team has won the Africa Cup of Nations three
times.

Impacts of aid

- 100 million people live on less than \$1 a day (£0.63)
- 4% of aid to Africa is received by Nigeria.
- Small scale loans are given to businesses to reduce the dependency on oil revenues.
- USA aid is used to help educate & protect people about HIV/AIDs and
- Nets for life provide anti-mosquito nets to reduce the spread of malaria.

Environmental Issues

- 70-80% of Nigeria's forests have been destroyed
- Desertification is a major problems made worse by large scale dams and irrigation schemes
- waste disposal & traffic congestion are issues in urban areas
- Mining has led to soil erosion and oil spills have impacted the ecosystems in the Niger delta.

Keywords

LIC - Low income country Defined by the world bank as countries with a GNI of less than \$1045 per year.

NEE - Newly Emerging Country A country whose economy is rapidly growing,

HIC - High income country Defined by the world bank as countries with a GNI of more than \$12,696 per year.

Transnational corporation: A global business that operates in more than one country e.g. Nike.

UK factfile

GNI per capita 2021	\$47,334
Population	67,326,569
Life expectancy	81
Access to electricity	100%
Forest cover	13.7

Nigeria fact file

GDP per capita 2020	\$2085
Population	211,400,704
Life expectancy	55
Access to electricity	55%
Forest cover	23.7%

Weimar and Nazi Germany 1918-39: KT1: The Weimar Republic, 1918-29

Summary: The Weimar Republic was the name given to Germany after the Kaiser had abdicated in November 1918. This was a time of despair and hope for Germany. At first, the country faced lots of chaos but under Gustav Stresemann, there was some stability.

Key events			
2	1918 World War One ended. The Kaiser abdicated and Germany became a country without a monarch (a Republic).		
3	1919 January Spartacist Uprising		
4	1919 June Signing of the Treaty of Versailles		
5	1919 August Weimar Constitution finalised		
6	1920 Kapp Putsch		
7	1923 French occupation of the Ruhr and hyperinflation		
8	1924 Dawes Plan		
9	1925 Locarno Pact		
10	1926 Germany joins League of Nations		
11	1928 Kellogg Briand Pact		
12	1929 Young Plan		
Key Co	Key Concepts		
13	The Weimar Republic faced much opposition, It was disliked by the left wing who wanted Germany to be like Communist Russia and it was disliked by the right wing who wanted the monarchy back.		
14	The Treaty of Versailles caused many problems for Germany. The German people disliked the politicians for signing it and it caused political problems and economic problems.		
15	Gustav Stresemann helped to bring about recovery in Germany after 1924. He solved economic problems by making friends with other countries. However, historians have very different views about the extent of this recovery.		
16	The Golden Age was the period from 1924-29 and it saw significant changes in culture, the standard of living and the position of women.		

	Key '	Words		
	17	Abdication	When a monarch leaves the throne	
4	18	Republic	A country without a King or a Queen	
4	19	Ebert	The first President of the Republic	
╛	20	Stresemann	The Chancellor of Germany from the Summer of 1923	
4	21	Article 48	The President could use this to ignore the Reichstag and rule as he saw fit	
4	22	Kaiser	King	
4	23	Armistice	An agreement to end war	
_	24	Weimar	The new government could not meet in Berlin as it was so dangerous, so they met here instead	
┨	25	Constitution	This is an agreement about how the country would be ruled	
┥	26	Reichstag	German parliament	
┥	27	Gewaltfrieden	An enforced peace	
	28	Freikorps	Ex military soldiers who wanted to overthrow the Republic	
	29	Rentenmark	The currency of Germany after November 1923	
	30	Hyperinflation	When money loses its value	
	31	Dawes Plan	An agreement where the USA would lend Germany money	
	32	Young Plan	This lowered the reparations payment and gave Germany longer to pay	
_	33	Treaty of Versailles	This decided how Germany was going to be treated after WW1	
	34	Locarno Pact	An agreement on borders signed by Britain, France, Italy and Belgium	
\rfloor	35	Kellogg Briand Pact	65 countries including Germany agreed to resolve conflict peacefully	
	36	Coalition	A government of two or more political parties	

Weimar and Nazi Germany 1918-39: KT2: Hitler's Rise to Power, 1919-33

Summary: Hitler sets up the Nazi Party in 1920 and becomes Chancellor in January 1933. This happens for a variety of reasons – Hitler's strengths, inbuilt problems of the Weimar Republic, and the weaknesses of others.

Key events		Key Words		
2	1919 Hitler joins the German Workers Party	18	NSDAP	The Nazis
3	1920 Hitler sets up the Nazi Party	19	Iron Cross Award	Given for bravery in war
4	1921 Hitler introduces the SA	20	Volk	The notion of pure German people
5	1923 The Munich Putsch	21	25 Point Programme	The political manifesto of the Nazi Party
6	1925 Mein Kampf published	22	Völkischer Beobachter	People's Observer, a Nazi newspaper
7	1926 Bamberg Conference	23	Fuhrerprinzip	Belief that one person should run a Party
8	1928 Nazis win 12 seats in Reichstag	24	Swastika	Emblem of the Nazi Party
9	1929 Death of Stresemann and Wall Street Crash	25	SA or Sturmabteilung	Private army of the Nazi Party headed
10	1930 Nazis won 107 seats in Reichstag			by Himmler
11	1932 July Nazis win 230 seats in Reichstag	26	Aryan	Pure German people
12	1932 November Nazis win 196 seats in Reichstag	27	Anti-Semitism	Hatred of the Jewish people
13	1933 January Hitler becomes Chancellor	28	Mein Kampf	Hitler's autobiography
Key C	oncepts	29	Putsch	An attempt to get power illegally
14	The Munich Putsch is a significant event. Although a failure, Hitler gained	30	Blood Martyrs	16 Nazis who died at the Munich Putsch
	publicity, he wrote Mein Kampf and he realised that if he was to win power, he needed to do this by votes and not by force.	31	Gaue	Local party branches
15	Stable Stresemann caused problems for the popularity of the Nazi Party.	32	SS or Schutzstaffel	Hitler's bodyguards
	When times were good, voters were not attracted to the Nazi policies.	33	КРD	German Communist Party
16	The Wall Street Crash was a major turning point in the fortunes of the Nazi Party. The Nazi message did not change but people were now prepared to hear it.	34	Propaganda	Goebbels attempted to make people think in a certain way
17			Hindenburg	The President of the Republic from 1925 to 1934
17 The Backstairs Intrigue - At a time when Nazi popularity at the polls was decreasing, Hitler was handed power by political elites who feared a Communist take over and Civil War.		36	Roter Frontkämpferbund	The Communist's own private army

Weimar and Nazi Germany 1918-39: KT3: Nazi Control and Dictatorship

Summary: This was a time when Hitler formed a legal dictatorship and put in place methods of propaganda and censorship to persuade and encourage all Germany people to support Nazi ideals.

Key events		Key Words		
2	1933 January Hitler becomes Chancellor	15	Marinus van der Lubbe	The Reichstag Fire was blamed on this Communist
3	1933 February Reichstag Fire	16	Enabling Act	Gave the Nazis full power for the next 4 years
4	1933 March Nazis win 288 seats	17	Gleichschaltung	Hitler's attempt to bring German society into line with
5	1933 March Enabling Act passed			Nazi philosophy
6	1933 July Nazis become the only legal party in Germany	18	German Labour Front (DAF)	Set up to replace Trade Unions
7	1934 June Night of the Long Knives	19	Dachau	First concentration camp
8	1934 August President Hindenburg dies	20	Centralisation	Germany had been divided into districts called Lander. Now Germany was run from Berlin alone
9	1934 August Hitler combines the post of Chancellor and President and becomes Fuhrer	21	Purge	To get rid of opposition
		22	Gestapo	Secret police headed by Goering.
10	1934 August German army swears allegiance to Hitler	23	Night of the Long Knives	Removal on internal and external opposition
11	1938 Over the course of the year, Hitler removes 16 army generals from their positions	24	Sicherheitsdienst (SD)	The intelligence body of the Nazi Party
Key C	Concepts	25	Concordat	In July 1933 the Pope agreed to stay out of political matters if the Nazis did not interfere with Catholic affairs
12	Removal – From 1933 to 1934, Hitler removed			
	all opposition and established himself as Fuhrer.	26	Edelweiss Pirates and Swing Youth	Groups who opposed the Hitler Youth
13	Control – There was an attempt to control and influence attitudes. This was done by propaganda and terror.	27	Confessional Church	Followed traditional German Protestantism and refused to allow the Nazification of religion. Led by Pastor Martin Niemoller
14	Opposition – The youth and the churches opposed the regime.	28	Mit Brennender Sorge (With Burning Concern)	The Pope wrote to priests in Germany about his concerns over the Nazi attempts to control religion

Weimar and Nazi Germany 1918-39: KT4: Life in Nazi Germany, 1933-39

Summary: The lives of German citizens were changed after Hitler's appointment as Chancellor. For some, life was better under the Nazis but for others, it was much worse.

Key	events		
2	1933 Boycott of Jewish shops and businesses. Law for the Encouragement of Marriage. Sterilisation Law passed.		
3	1935 The Nuremberg Laws were passed.		
4	1935 Conscription introduced.		
5	1936 Membership of the Hitler Youth made compulsory.		
6	1938 Jewish children were not allowed to attend German schools. Lebensborn programme introduced. Kristallnacht.		
7	1939 The euthanasia campaign began. Designated Jewish ghettos established.		
Key	Key Concepts		
9	Anti-Semitism – Persecution of the Jews grew continuously after 1933.		
10	Young— The Nazis placed much emphasis on controlling the young as only then could they secure a 'thousand year Reich'. Youth organisations and education indoctrinated the German youth.		
11	Women – The Nazis had traditional family values but even these were tested by the needs of war and the desire to ensure a growing Aryan population.		
12	Living Standards — The Nazis did reduce unemployment but they did this by banning Jews and women from the workplace and by putting Germany on a war footing. Workers had limited rights.		

Key Words		
13	Kinder, Küche, Kirche	Children, Kitchen, Church. This summed up the Nazi ideal of womanhood
14	The Motherhood Cross Award	Given to women for large families
15	Lebensborn	Where unmarried women were impregnated by SS men.
16	Napola	Schools intended to train the future leaders of Germany
17	Nazi Teachers League	All teachers had to swear an oath of loyalty to the Nazis
18	Reich Labour Service	A scheme to provide young men with manual labour jobs
19	Invisible unemployment	The Nazi unemployment figures did not include women, Jews, opponent
20	Autobahn	Motorway
21	Rearmament	Building up the armed forces in readiness for war
22	Volksgemeinschaft	The Nazi community
23	Strength Through Joy	An attempt to improve the leisure time of German workers
24	Beauty of Labour	Tried to improve working conditions of German workers.
25	Volkswagen	People's car
26	Eintopf	A one pot dish
27	Herrenvolk	The master race or the Aryans
28	Nuremberg Laws	Jews were stripped of their citizenship rights and marriage between Jews and no Jews was forbidden
29	Kristallnacht (Night of the Broken Glass)	A Nazi sponsored event against the Jewish community

A: Angle Facts		
	Angles on a straight line add up to 180°	
>	Angles around a point add to 360°	
\times	Vertically opposite angles are equal	
	Angles in a triangle add up to 180°	
	Angles in a quadrilateral add up to 360°	
\triangle	Base angles in an isosceles triangle are equal	
→	Corresponding angles are equal	
	Alternate angles are equal	
	Co-interior angles add up to 180°	

B : Transformations		
Rotation	Angle Direction Centre of rotation	
Reflection	Line of symmetry	
Translation	Vector	
Enlargement	Scale Factor Centre of enlargement	

Maths Knowledge Organiser Year 11 (FOUNDATION)

C: Trigonometry			
Hypotenuse	The longest side opposite the right angle		
Opposite	The side opposi	ite the given angle	
Adjacent	The side between the angle and the right angle		
Function	Formula Triangle	Equation	
Sin	S H	Sin θ = <u>opposite</u> . hypotenuse	
Cos	A C H	Cos θ = <u>adjacent</u> . hypotenuse	
Tan	T A	Tan θ = <u>opposite</u> adjacent	

D : Equation of a straight line		
Equation	y = mx + c	
Gradient	m	
y-intercept	С	
Gradient between (x_1, y_1) and (x_2, y_2)	$\frac{y_2 - y_1}{x_2 - x_1}$	
Parallel lines	have the same gradient	
Midpoint	$\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$	

E: Angles in polygons			
Sum of interior angles	(n - 2) x 180		
One interior angle	(n - 2) x 180 2		
One Exterior angle	<u>360</u> n		
Interior + Exterior angle	180		

G : Index Laws			
a ^m x a ⁿ	a ^{m+n}		
a ^m ÷ a ⁿ	a ^{m - n}		
(a ^m) ⁿ	a ^{mn}		
a ⁻ⁿ	<u>1.</u> a ⁿ		
a ^{1/n}	$\sqrt[n]{a}$		

F: Circles				
	radius			
	diameter			
	circumference			
	chord			
	tangent			
	sector			
0	arc			

E. Circles

	H : Number					
	Square Numbers	1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144,				
	Cube Numbers	1, 8, 27, 64, 125, 216, 343, 512, 729, 1000				
	Prime Numbers	2, 3, 5, 7, 11, 13, 17, 19, 23, 29,				
	Fibonacci	0, 1, 1, 2, 3, 5, 8, 13, 21, 34,				
┑						

I: Averages and range				
Mean	Add up all the numbers and divide by the number of numbers			
Median	Put the numbers in order and find the middle number			
Mode	The most common number			
Range	Biggest number – smallest number			

A: Angle Facts			
	Angles on a straight line add up to 180°		
Y	Angles around a point add to 360°		
\rightarrow	Vertically opposite angles are equal		
	Angles in a triangle add up to 180°		
	Angles in a quadrilateral add up to 360°		
Δ	Base angles in an isosceles triangle are equal		
	Corresponding angles are equal		
	Alternate angles are equal		

B: Transformations		
Rotation	Angle Direction Centre of rotation	
Reflection	Line of symmetry	
Translation	Vector	
Enlargement	Scale Factor Centre of enlargement	

Maths Knowledge Organiser Year 11 (HIGHER)

C: Trigonometry			
Sin	ON	Sin θ = <u>opposite</u> . hypotenuse	
Cos	CH	Cos θ = <u>adjacent</u> . hypotenuse	
Tan	TA	Tan θ = <u>opposite</u> adjacent	

E: Angles in polygons			
Sum of interior angles	(n - 2) x 180		
One interior angle	<u>(n - 2) x 180</u> 2		
One Exterior angle	<u>360</u> n		
Interior + Exterior angle	180		

F: Box Plots				
Lowest Value	Lower Quartile	Median	Upper Quartile	Highest Value

D: Circle Theorems				G : Index Laws			
Diagram	Theorem	a ^m x a ⁿ		١	a ^{m+n}		
The angle in a semi-circle is			a ^m ÷ a ⁿ		a ⁿ	1 - N	
	90°			(a ^m) ⁿ		a ^{mn}	
	The angle at the centre is twice the angle at the circumference Angles in the same segment are equal		a ⁻ⁿ		<u>1</u> a	1. a ⁿ	
			a ^{1/n}		$\sqrt[n]{a}$		
	Opposite angles in a cyclic quadrilateral are equal		H: Similar Shapes				
			LSF Linear Scale Fa		e Factor		
	The angle between the radius and the tangent is 90°		ASF	(LSF) ²			
			VSF	(LSF) ³			
Alternate Segment Theorem			I: Histog			ams	
\bigcirc	The tangents to a circle from the same point are equal The radius through the midpoint of the chord will bisect the chord at 90°		Frequency =			FD x CW	
			Freque	ncy Density	=	F÷CW	

J : Freque	J : Frequency Polygons and Cumulative Frequency			
Type of graph	What do I plot? How do I join the points?			
Frequency Polygon	(midpoint, frequency)	Straight lines using a ruler		
Cumulative Frequency	(endpoint, frequency)	Smooth curved. A stretched "S"		

Melody – Knowledge Organiser

Pitch



How high or low a note is

Interval



The distance between any two notes.

Motif



A fragment of a melody.

Range



The difference between the lowest and highest notes

Phrase

A longer melodic idea. Musical "sentences" are constructed from phrases.



Melodic movement

Steps – movement between notes that are next to each other in the scale

Skips – movement equal to two steps. You "skip" over a note in the scale

Leaps - `any movement that is larger than a skip

Scalic – when a section of a melody moves along using notes in scale order

Chromatic – movement using steps including notes that are not in the key

Passing note – notes which link chord tones

Hook/riff

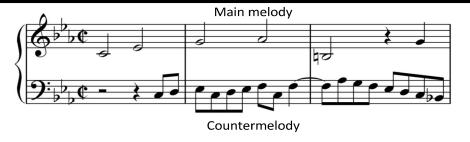
A memorable repeated melodic idea designed to catch the ear of the listener.



Scale/mode

A group of notes which a melody is based on e.g. major, minor, blues, chromatic, dorian

Countermelody



Compositional devices

Repetition – repeat a melodic idea

Sequence – repeat a melodic idea but starting on a different note

Imitation – repeat a melodic idea in another instrument

Variation – change the melodic idea slightly

Ostinato – constant repetition of a melodic idea

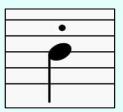
Inversion – turn the melodic idea upside down

Retrograde – play the melodic idea backwards

Articulation – Knowledge Organiser

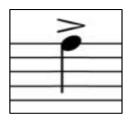
ARTICULATION means how you play or sing a note. It is an important part of performing music **EXPRESSIVELY**.

Staccato



Performed short and briefly. Notes sound detached from each other.

Accent



Emphasise a note so that it sounds louder than others.

Legato



Perform the notes smoothly. Notes sound connected to each other.

A smooth articulation between two notes is called a **SLUR**.

Orchestral Strings

Pizzicato



Perform the notes by plucking them with the fingers.

sfz

Arco



Perform the notes by using the bow.

Tremolo



Continuously play the note with the bow rapidly to produce a trembling effect.

Other Articulations

Vibrato – a slight "wobbling" of the pitch of a note for expression. An important vocal technique as well as for instruments.

Tonguing – the technique used by brass and wind players. Faster rhythms often require the technique of double or triple tonguing.

Bend – guitarists can use their fingers to bend the string from one note to another. Brass and wind players can also do this with different mouth shape and air pressure.

Sforzando

A sforzando is a type of accent. The note should be played with a sudden, strong emphasis.

Slides

Glissando — a dramatic slide between a wide range of notes. For example, running the fingers along the strings of a harp.

Portamento — a smooth slide between two notes. Used frequently by singers.

Dynamics – Knowledge Organiser

DYNAMICS refer to how loud or soft music is played. It is an important part of performing music **EXPRESSIVELY**.

Fortissimo

VERY LOUD

Forte

LOUD

Mezzo-forte

Fairly Loud

Mezzo-piano ////D

Fairly Soft

Piano

Soft

Pianissimo

Very Soft



On a musical score the dynamic markings are always placed **UNDERNEATH** the stave.

Sometimes composers place extreme dynamic markings on a score to express that they want the music to be played as loud or as soft as is humanly possible!



Crescendo Gradually getting louder

Diminuendo

Gradually getting softer

Texture – Knowledge Organiser

TEXTURE is what we call the different layers and parts of a musical piece and how they fit together.

Monophonic



A single melodic voice or instrument

Polyphonic



Different musical lines that interweave with each other

Homophonic



Examples of THIN texture

Examples of THICK texture

Solo instrument
Acoustic guitar and vocal
Piano and cello

An orchestra A rock band A samba ensemble

Counterpoint

Two or more different melodies playing together.

Unison

When two or more voices or instruments sing/play exactly the same thing at the same time

Melody and accompaniment



Parallel Motion

Notes moving in the same direction keeping the same interval.



Contrary motion



Notes moving in opposite directions; one up, the other down.

Structure and Form – Knowledge Organiser

STRUCTURE - the different sections of a piece or music and how they are ordered.

Typical Pop Song Structure

Intro – Verse 1 – Verse 2 – Chorus – Verse 3 – Middle 8/Bridge – Verse 4 – Chorus – Outro

Intro

The introduction sets the mood of a song. It is often instrumental but can occasionally start with lyrics.

Verses

Verses introduce the song theme.
There are usually new lyrics for each verse which helps to develop the song's narrative

Binary Form

Music that has two sections.
These are labelled A and B.

AB

Ternary Form

Music that has three sections. The A section is heard again after B.

ABA

Rondo Form

A recurring theme (A) contrasted by different sections.

ABACADAE

Choruses

All the choruses usually have the same lyrics. This section relays the main message of the song.

Middle 8/Bridge

This section adds some contrast to the verses and choruses by using a different melody and chord progression.

Theme & Variation

A composition can be developed using the **VARIATION** technique.

A main theme is composed then the following sections vary this theme in some way, by altering for example:

MELODY - RHYTHMS - CHORDS - TEMPO - INSTRUMENTATION - KEY

Instrumental Solo	Strophic Form	Through Composed
Solos are designed to show off an instrumentalists skills. Rock, jazz and blues often feature solos on instruments such as piano, sax, guitar and drums	When all of the verses are sung to the same music.	When each section has different music. No section is repeated.

Harmony – Knowledge Organiser

HARMONY – how chords are used in a piece of music.



A basic type of chord made up of three notes





Rearranging the order of the individual notes of a chord

$\begin{array}{c} \text{Power Chord} \\ C^5 \end{array}$



A chord using only the 1st and 5th scale degrees; no 3rd **Arpeggio** – playing the individual notes of a chord one after another

Cadence – a movement between two chords at the end of a phrase

Chromatic – music that uses chords that are not naturally found in the key

Diatonic – music that use only chords that belong to the key

Dominant – the fifth chord (V) of a key

Harmonic rhythm – the rate at which the chords change in a piece

Modulation – when the harmony shifts to a new key

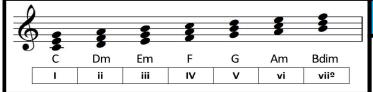
Primary triads – chords I IV and V in a key

Progression – a sequence of chords put together

Seventh – adding the 7th degree of the scale to a triad

Tonic – the first chord (I) in a key

Chord Functions in a Key – Roman Numeral System



Building Chords Using Scale Degrees

C D E F G A B 1 2 3 4 5 6 7

Example: Minor triads are built using the 1 b3 and 5 degrees of a scale so a C minor triad contains the notes C Eb G

Major Triad 1 3 5 Minor Triad 1 b3 5 Major 7th chord 1 3 5 7 Minor 7th chord 1 b3 5 b7 Dominant 7th chord 1 3 5 b7

Perfect Cadence "The strongest one"



Plagal Cadence "The Amen one"



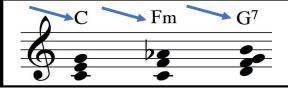
Imperfect Cadence "The cliffhanger one"



Interrupted Cadence "The hidden twist one"



Chord Symbol



Tuba

Viola

Violin



Trumpet



Harp



Cello

Bass



Trombone

French horn

Keyboard Instruments



Harpsichord

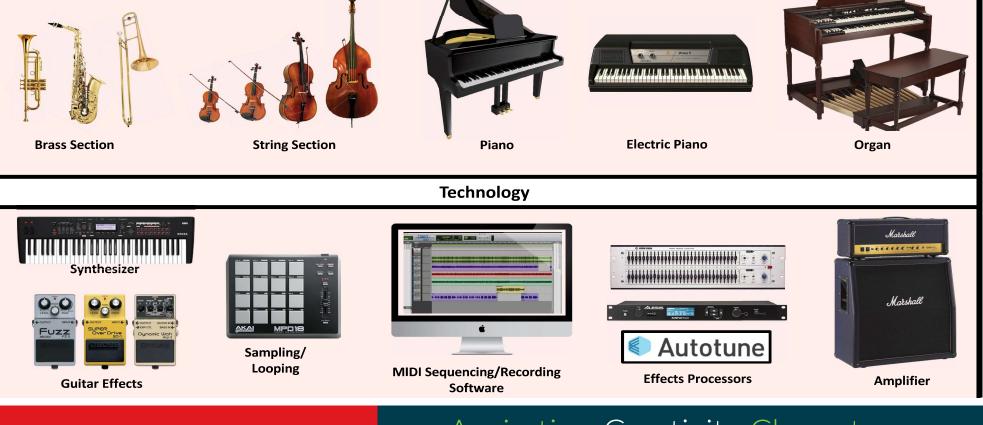


Piano



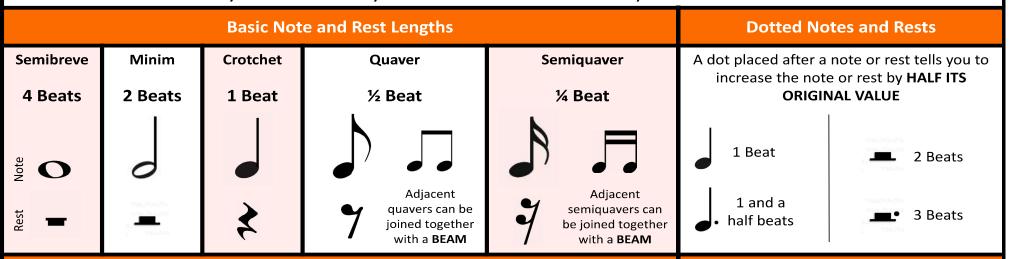
Instrumentation (Rock and Pop) – Knowledge Organiser





Rhythm – Knowledge Organiser

When you combine any two or more notes or rests you create a **RHYTHM**.



Types of Rhythms

This bass line would be described as having a **CROTCHET** rhythm





POLYRHYTHM

Two or more different rhythms with the same **METRE** played at the same time

DOTTED MINIM and **SEMIQUAVER** rhythm



CROSS RHYTHM

Two or more rhythms played at the same time but with conflicting **ACCENTS** often in different **METRES**



Ties

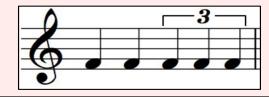
A **TIE** joins two notes of different values



Here you would play the first note and hold it for 3 beats (2+1)

Triplets

A **TRIPLET** is 3 notes played where there is usually only space for 2



Tempo – Knowledge Organiser

TEMPO means how fast or slow a piece of music is – it is the speed of music

The **TEMPO** of a piece of music is most commonly indicated in two ways – an Italian word and beats per minute (B.P.M.)

Italian term	English meaning	B.P.M.
Largo	Slowly and broadly	40 - 60
Adagio	Slowly (but not as slow as largo)	60 - 75
Andante	At a walking pace	75 - 105
Moderato	At a moderate pace	105 - 120
Allegro	Quite fast	120 - 155
Vivace	Quick and lively	155 - 175
Presto	Very fast	175 - 200

Tempo markings are placed at the start of the score above the stave

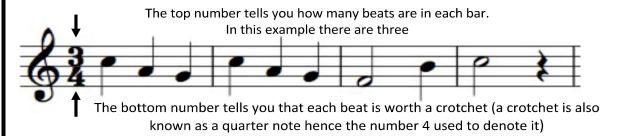


There are also some terms which indicate a change in tempo during a piece

Italian term	English meaning
Accelerando Gradually speeding up	
Ritardando/Rallentando	Gradually slowing down
Ritenuto	A sudden slowing down
Rubato	A highly expressive technique where a performer plays with flexible tempo

Time Signature – Knowledge Organiser

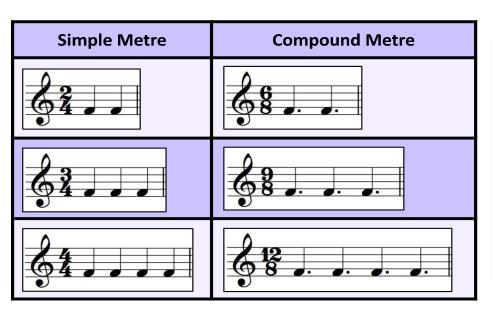
A TIME SIGNATURE gives you information on how the beats are arranged in a piece of music. It is also known as METRE



Number 2 on the bottom = MINIMS

Number 4 on the bottom = **CROTCHETS**

Number **8** on the bottom = **QUAVERS**



There are two main types of metre: SIMPLE and COMPOUND

Simple time signatures have beats that can be broken down into two notes

Compound time signatures have beats that can be broken down into three notes.

In compound time signatures each beat is represented by a dotted crotchet which can be broken down into three quavers



The vast majority of music is written with a 4/4 time signature.

This is so common it is known as COMMONTIME and can be denoted using a letter C instead of using numbers

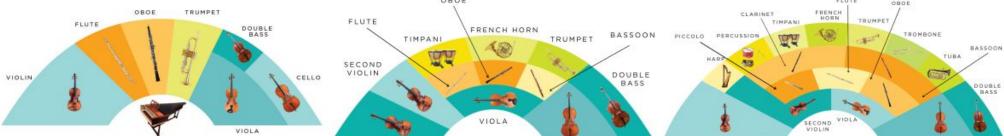


IRREGULAR METRE

Sometimes music is written in a metre containing odd numbers of betas in each bar



AoS2: Co	oncerto Throuç	gh Time					
	What is a Concerto?		Key Terms			ıs	
1. Solo and Orchestra	Solo and Orchestra Uses a solo instrument (solo concerto) OR a group of soloists (concerto grosso) with an orchestral		1. Acciaccatura	An ornament: a very quick, "crushed" grace note (before the main note)		5. Chromatic Harmony	Harmony that uses complex chords, using notes that are not part of the scale (accidentals)
2. Three Movements	1. Fast 2. Slow 3.Fast		2. Alberti Bass	A broken chord accompanime quavers	ent figure, usually played in	6. Concertino	The group of soloists in a concerto grosso
3. Virtuosity	The soloist shows off the cap and or the solo performer	pabilities of the instruments	3. Appoggiatura	A slightly longer grace note		7. Concerto Grosso	A concerto with a group of soloists instead of just one
4. Metre	Common or Simple time mos concertos (4/4; 3/4; 6/8)	st commonly used in	4. Cadenza	Orchestra stops whilst the sol section (sometimes improvise		8. Continuo	Continuous bass line, played by a bass instrumer (cello) and a chord instrument (harpsichord)
	Baroque	Clas	Classical		Romantic		Polyphonic. Lots of independents melodic lines playing together.
1600-1750	Corelli; Vivaldi; Bach	1750-1810	Mozart; Haydn; Beethoven	1810-1910	Brahms; Tchaikovsky; Mendelssohn	10. Diatonic Harmony	Music in a major or minor key - often based around primary chords
Small orchestra, consisting of strings and continuo section (bass line and chords)		Medium sized orchestra, with separate woodwind section including clarinets. No continuo		Large orchestra, more like and percussion sections	ely to include large brass	11. Doubled	When the melody is played by another instrumen
				Brass instruments now har larger range	ve valves giving them a	12. Ground Bass	A short repetitive theme in the bass line whilst other parts vary over the top
Diatonic harmony, mostly based on primary chords (I, IV, V) 3. Diatonic ha		3. Diatonic harmony still	Diatonic harmony still		er, more virtuosic and sed but written	13. Mordent	An ornament: changing quickly to the note above or below the main note.
		4. Use of equal length ques known as periodic phrasing			14. Ornament	Decorative notes, e.g.: acciaccaturas, appoggiaturas, trills etc	
5. Often uses contrapu a lot to develop melody	untal texture and use of sequence	Melody and accompaning with orchestra often playing	A CONTRACTOR OF THE PROPERTY O	More contrasting dynamic to create emotional/dramatic	THE DESIGNATION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	15. Ripieno	The orchestral backing in a concerto grosso
6. Terraced dynamics	due to the use of the harpsichord	Introduction of cadenzas movement in particular	at the end of the first	6. Modulations to more distantly related keys.		16. Rubato	Momentarily not keeping to strict tempo to allow slight quicken/slow of expression
		Changes to	the Orchestra			17. Sequence	When a melodic idea/motif is repeated higher or lower each time
Strings	Violin; Viola; Cello; Double Bass	The number of strings increa	ases to be able to be heard ov	er the growing orchestra over ti	me.	18. Terraced Dynamics	Either loud or soft. No crescendo or diminuendo
Woodwind	Flute; Oboe; Bassoon + Clarinets		+ Piccolo; Cor anglais; Bass of	clarinet; Contrabasson	19. Trill	An ornament: alternating quickly between two notes next to each other	
Brass	s Trumpet; Horn (rarely used) Used more often		+ Trombone; Tuba		20. Tutti	A section of music where everybody plays	
Percussion Timpani			+ Snare; Bass drum; Cymbals; Glockenspiel		21. Valves	On brass instruments they allow all notes to be played (as opposed to just the harmonic series)	
Other Harpsichord		Harpsichord fell out of use with the invention of the piano		22. Virtuosic	Difficult to play/showing off		



AoS3: Rhyt	hms of the World						
			Indian Subcontinent				Key Terms
			Indian Classical			1. Accelerando	A gradual increase in tempo
It is highly improvised, throughout the performant	, with performers communicating with each other nce	Melodic lines are he runs and glissando	navily ornamented using techniques such as pitch/note bend,	3. Famous performer	s include Ravi Shankar (sitar) and Alla Rakha (tabla)	2. Call and response	One instrument plays a 'call', and the rest of the performers respond
1. Raga	A set of pitches, similar to a scale, used as the basis of the improvised melody	5. Alap	The opening section - slow and only with the raga and drone instruments playing	9. Sarangi	A stringed, violin-like instrument played with a bow	3. Cross rhythm	A complex polyrhythm that uses different 'conflicting' rhythms
2. Drone	A repeated note or set of notes repeated throughout a piece	6. Gat	The main, middle section - a clear pulse is developed with the introduction of the tala	10. Bansuri	A wooden flute used in Indian Classical music	4. Dotted Rhythms	A rhythm in which the beat is unequally subdivided into a long dotted note and a short note.
3. Tala	A cycle of beats that repeat and are played by the tabla	7. Jhala	The fast climax of the piece	11. Sarod	A lute used in Indian Classical music	5. Improvisation	Make something up on the spot
4. Sitar	A stringed, guitar-like instrument, its distinctive sound is due to a number of 'sympathetic strings'	8. Tanpura	A stringed instrument used to play the drone	12. Tabla	A pair of drums, with of a wide variety of sounds and pitches	6. Microtones	Notes between the semitones of Western classical music
1	Vocal melodies have a small range, but are heavily ornamented using microtonal intervals	1. Dohl	Double-headed barrel drum, played with a strick	4. Synthesiser	An electronic keyboard instrument	7. Ornamentation	Fast notes that are added to a melody as decoration, for example a trill
Bhangra	Most modern bhangra follows a standard pop song structure, and contains shouts of "Hoi" on the off beats	2. Tumbi	A high-pitched, single-stringed instrument	5. Sampling	Taking an extract from one recording and using it in another	8. Ostinato	A repeated rhythmic pattern
	3. Famous performers include Punjabi MC	3. Chaal	The rhythm used in bhangra, played on the dhol and tumbi	6. Harmonium	A small keyboard instrument which requires pumping bellows to produce a sound similar to an accordion	9. Pitch/Note Bend	Slightly changing the pitch of a note on a stringed instrument, by pulling down of the string
		Medit	erranean and Middle eastern		· ·	10. Polyrhythm	Many different rhythms played at the same time
	Greek	Palestinian			Israeli	11. Slide/Glissando	To glide or slide from one note to the next
Irregular time signatures (5/8, 7/8) are often used, but not always, with the use of irregular rhythms played using accented notes		Melodies are improvised around the magam with lots of ornamentation. Vocals are highly meliamatic		I. Israeli music tends to adopt more Western musical instruments, rather than Arabic, like Palestinian music		12. Syncopation	Playing or accenting rhythms that are off the main beat
Simple melodies with lots of ornamentation, often harmonised in thirds		Textures can be monophonic, however often hetrophonic textures can be heard with multiple instruments playing and decorating melody lines at once		Melodies most often played on violin, clarinet or accordion with heavy ornamentation		13. Tremolo	A rolling effect, created by the fast repetition of notes (on the bazouki in Greek and steel pans in Calypso)
3. Major and minor chord emphasised in the bass	is used, with the tonic and dominant notes of the chord	1. Maqam	A set of pitches, similar to a scale, used as the basis of the improvised melody	of 3. Usually in 2/4 or 4/4, with a fast tempo for dancing, which has a gradual accelerando		14. Triplets	Three notes played in the time of two
1. Bouzouki	A stringed instrument that is played using a plectrum, similar to a guitar.	2. Wazn	A rhythmic pattern of beats that repeat and are played by the tabla	Melody and accorplaying every beat, or	mpaniment texture with chords played off-beat and bass iften playing alternating tonic and dominant notes	15. Virtuosio	Playing with a high level of technical ability (showing of
2. Defi	A Greek hand drum with bangles attached.	3. Oud	A pear-shaped stringed instrument played with a pick.	1. Hammer on	Sharply bringing a finger down on the fingerboard of a stringed instrument, causing a note to sound		African Drumming
3. Doumbek	A goblet drum, similar to a djembe, but played with a lighter, faster touch.	4. Zither	Similar sounding to a harp, this string instrument is played on ones lap and plucked or strummed	2. Pull off	"Pulling" the finger off a string on a fingerboard of stringed instrument, causing a note to change in pitch	Learnt aurally African drumming relies on layers of ostinato which have a steady pulse	
		Latin and South American			Played for entertainment but also at special events such as weddings, births and funerals		
	Calypso		Sai	mba		1. Master Drummer	The leader of the group in n African ensemble, often the most virtuosic of the group
Originally song often a or commented on politics	accompanied by one instrument with lyric that tell a story s/society	1. In 2/4 or 4/4 it is hi	ghly polyrhythmic and uses call and response between the the rest of the ensemble	Moderately fast tempo using sudden stops to create excitement in the otherwise repetitive style known as the batacuda		2. Agogo	A bell like instrument that can produce two pitches
2. Famous calypso artists	s include Mighty Sparrow, but now calypso is more th performance on steel pans	1. Agogo	A bell like instrument that can produce two pitches	7. Cowbell	Percussion bell	3. Dundun	A large double headed drum played with a stick
Simple harmony using the primary chords , often played in a major key		2. Apito	A whistle used in Samba	8. Culca	A friction drum with a large pitch range, produced by changing tension on the head of the drum.	4. Djembe	A single headed, gobiet drum that is played with the hands
Verse/chorus structure in 4/4 time with syncopated and dotted rhythms		3. Batacuda	African-influences Brazilian percussive style, played by an ensemble known as a bateria	9. Guiro	A percussion instrument consisting of a notched gourd which is scraped by a stick	5. Marimba	A percussion instrument with wooden bars that are hit with mallets
1. Tenor/ping ping	Highest pitch steel pans that play the melody	4. Clave rhythm	The rhythm used in Samba usually played on the claves	10. Repinique	High pitch Tom Tom drum that is played by the leader of the ensemble	6. Mbira	A wooden board with metal tines on it that are plucked with thumbs
2. Altos/guitars/cellos	Steel pans that play the chords	5. Claves	An instrument consisting of two sticks beaten together	11. Surdo	Large drum which provides the basic rhythmic pulse of the music	7. Shekere	A rattle made from a hollowed out gourd covered in beads
3. Bass	Low pitch steel pans that play the bass line of the music	6. Conga	Two tall drums of equal height but different diameters, which create different pitches	12. Timbale	Two small drums played with sticks, sounding like high pitched tom-toms	8. Talking drum	A drum played with a hooked stick, and contains string that can be tightened and loosened to alter the pitch

Key Ideas		Key Terms				
1. Purpose	Music in a film is there to set the scene, enhance the mood, tell the audience things that the visuals cannot, or manipulate their feelings. Sound effects are not music!	1. Click Track	A click metronome heard by musicians through headphones as they perform to keep in time	5. Mickey Mousing	When music fits exactly with a specific action on screen	
2. Theme Song	Sometimes a song, usually a pop song, is used as a theme song for a film. This helps with marketing and publicity.	2. Cues	The parts of the film that require music. This is agreed between the director and composer	6. Non-diegetic	Music that is not part of the action: the audience can hear it but the character in the film cannot	
3. Video Game Music	Music for video games fulfils a very similar function to that of film music.	3. Diegetic	Music that is part of the action: the characters in the film can actually hear the music	7. Sync point	A precise moment where the music needs to fit with an action	
C	omposing to enhance a mood:	4. Leitmotif	A short melody that is associated with a character or idea in a film	8. Underscore	Music played underneath action or dialogue - use to set a mood	
	Use of simple/duple metre will work for a military style drum beat		Pitch & Melody		Harmony & Tonality	
War/Military	Percussion instruments used to help depict a military band, including snare, bass drum and cymbals.	1. Arpeggio/Broken Chord	Going up or down the notes of a chord one at a time, ascending or descending	1. Atonal	Not in a key - often sounds dissonant	
	Brass instruments evoke a military feel but also heroism associated with fanfares.	2. Chromatic scale	Going up or down by one semitone at a time	2. Consonant	Not clashing - harmony that sounds nice	
	Thick textures and rich timbres can help to convey emotion	3. Conjunct/stepwise	Moving up or down by step (notes that are next to each other)	3. Disson a nt	Clashing harmony	
Drama	2. Often using string instruments	4. Disjunct/leap	Moving up or down by leaps (notes that are further apart from each other)	4. Major/Minor	The key - generally major keys sound happy and minor keys sound sad	
	Major tonality for epic/triumphant feel. Minor tonality for tragedy/reflectiveness	5.Ostinato	A repeating pattern (can be melodic or rhythmic)	5. Pedal Note	a held note under or over the rest of the music	
	Sustained/tremolo strings bring tension to a scene, especially when played quietly	Dynamics, expression and articulation		Texture		
Horror	Sudden changes in dynamics and pitch prevent the listener from feeling comfortable	1. Accent/Stab	A note that is louder than the ones surrounding it (a chord is known as a stab in film music)	1. Antiphonal	Alternating groups of instruments	
	3. Unpleasant/screeching timbres and dissonance	2. Crescendo/Diminuendo	Getting louder/quieter gradually	2. Call and Response	Question and answer	
	Faster tempo and major key to help create a bright melody	3. Glissando	A very quick scale, played as fast as possible so that it is as close to a slide as possible	3. Homophonic	Chords	
Comedy	Pizzicato strings and usually a lot of Mickey Mousing	4. Muted	A dampened sound on a brass or string instrument	4. Monophonic	A single melody - no harmony	
	Minor tonality with heavy use of strings	5. Legato	Played smoothly	5. Polyphonic	Many independent lines of music	
Tragedy	2. Slow tempo, unless conveying a panic before a tragedy	6. Pizzicato	When a violin, viola, cello or double bass is plucked (instead of bowed)	6. Octave	The interval of an 8th	
	3. Generally quiet dynamics with warm timbres	7. Staccato	Short, detached notes	7. Imitative	A melody repeated a little later by another instrument	

A035: C0	nventions of	Pop			· ·	
Rock n' R	oll of the 50s & 60s	Rock Anthems of	f the 70s & 80s	Pop Ballads of the 70s, 80s & 90s	Solo A	rtists from 90s to the present
Small dance hall/clubs concert halls	or Little Richard/Elvis Presley	Clubs/Fectivals or Stadiums	Queen/Europe	Clubs/Concert Halls or individual listening Elton John/Bonnie Tyler	Clubs/Small concert his or Stadium	all Rihanna/Adelle/Ed Sheeran
1. Moderate - fast tem rhythm, in 4/4	po, with a strong back beat	Moderately fast tempo, in 4/ (often a back beat)	4, with a steady rock beat	1. Often in 4/4 (sometimes in 6/8 or 3/4) with a slow tempo	A range of popular s dance	tyles including: pop, rock, rap, RnB, electronic and
Almost always using bar blues structure	primary chords, often using 12	Powerful and uplifting lyrics with by the audience in the chor		Range of textures to reflect the emotional lyrics of the song	More use of electror improvements in techn	nic instruments and synthesisers with elogy
Melody and accomplete the control of the contr		Power chords used on elect melody and accompaniment t		Sentimental lyrics often reflected in the vocals with the use of rubato and melisma	Typical band instrum effects	nents but with more computerised additions and
Syncopated walking rhythms in the chords	Syncopated walking bass lines, and often swung 4. Riffs played by keyboards, with long drum or guitar solo.		electric guitars and bass,	Harmony often using a mix of major and minor chords with inversions	Effects like autotune used more creatively	e can now be applied to live performances and so are
Nock band instruments mostly acoustic: piano, drums, guitar (electric), bass/double bass and brass distortion; overdrive, delay an			Instruments with a typical band setup (guitar, drums, bass) but with more piano and strings	5. Still often uses a typical pop song structure (as do the other 3 styles)		
	- W-			Key Terms	4:	
1. A capella	Voices without instrumental ac	companiment	11. Glissando	A slide between two notes, when you can hear individual notes (e.g.: like on a piano)	21. Reverb	Effect added to vocals once they have been recorded to add 'warmth' - gives a slight echo
2. Autotune	An effect which alters pitch in vocal and instrumental music recording and performances		12. Hook	The catchy part of the song, often in the chorus	22. Riff	A repeating melodic or rhythmic idea
3. Back beat	A drum beat which emphasises the second and fourth beats of the bar		13. Instrumental break	A section where the singing stops and there is a solo on an instrument	23. Rubato	Momentarily not keeping to strict tempo to allow a slight quicken/slow of expression
4. Bridge	A section that links the verse and chorus. Sometimes called a pre-chorus		14. Looping	Technology-based method of repeating a short musical idea	24. Sampling	A short extract of already composed music and reused in a new piece
5. Broken Chord	Each note of a chord played separately		15. Melisma	Lots of notes sung to a single syllable	25. Scat	Vocal improvisation with nonsense syllables or without words
6. Delay	Electronic effect that delays the sound. Sounds like an exaggerated echo		16. Middle Eight	A section of the song where there is a new, different tune	26. Strumming	Playing all the strings of a guitar at once to play a chord
7. Distortion	An effect used on guitars: a dirty, fuzzy kind of sound		17. Overdrive	An effect like distortion, but more subtle to create a more natural effect and less aggressive	27. Syllabic	Each syllable is sung to a single note
8. Falsetto	High pitched male voice (when he is using his head voice)		18. Panning	Making certain tracks come through different sides of the speakers/headphones (left/right)	28. Turn	Playing the note above, then the main note, then the note below and then back to the main note quickly
9. Fill	At the end of a phrase, the drummer plays a more complex beat for a moment		19. Picking	On guitar, playing one note at a time (as opposed to strumming)	29. Vibrato	Pulsating change of pitch. It is used to add expression
10. Flanger	A guitar effect that makes a whooshing sound		20. Portamento	When a singer slides between notes	30. Wah-Wah pedal	a guitar effects pedal that alters the tone and frequencies to mimicking the human voice saying "wah-wah"

Sports Psychology

Classification of skill

Skills are specific tasks that can be learnt and practiced. *i.e.* Golf swing / Lay up / Tennis volley

Continuum = sliding scale of extremes at each end

Environmental influence - Open/Closed Continuum





Difficulty - Complex/Basic Continuum





COMPLEX

BASIC/SIMPLE

Organisation Level - Low/High Continuum





A LOW ORGANISED

HIGH ORGANISED

Specific

Types of Practices

Massed practice: When no rest intervals are given.

<u>Distributed practice:</u> When a rest interval is given to allow recovery, feedback & coaching.

<u>Fixed practice:</u> Uses repetition of the same activity to develop consistency in performance.

<u>Varied/Variable practice</u>: Involves or performing a skill in different situations where conditions are changeable.

Guidance

<u>Visual guidance:</u> Learners are shown the whole action by the coach. *i.e.* demonstration/use of video playback.



<u>Verbal guidance</u>: Learners listen to information given to a performer often using associated terminology. *i.e. instructions told to a team.*



Manual guidance: Coaches will physically move a performer and support them in performing a skill. i.e. Trampolining somersault support.



Mechanical guidance: Learners use equipment to help support the practicing of a skill. i.e. floats during swimming stroke development.

Feedback

Vital part of information processing which provides confidence, motivation and improves performance.

<u>Intrinsic feedback:</u> This comes from within the performer. Kinaesthetic senses provide feelings from muscles/joints about the action.

<u>Extrinsic feedback</u>: This comes from results and match analysis.

- 1.Knowledge of results the outcome
- 2.Knowledge of performance

<u>Concurrent feedback:</u> Information provided to the athlete during the performance.

<u>Terminal feedback:</u> Information provided to the athlete before or after the performance.

Mental Preparation for Performance

Mental rehearsal/Imagery involves the athlete imagining themselves in an environment performing a specific activity using all of their senses.

This can be used to:

- Familiarise the athlete with a competition site or a complex play pattern or routine.
- Motivate the athlete by recalling images of their goals or of success in a past competition.
- Perfect skills or skill sequences the athlete is learning or refining.
- Reduce negative thoughts by focusing on positive outcomes.



SMART Targets

Goal setting motivates performers

- Short Term goals
- Long Term goals
- Outcome goalsPerformance goals

·
Targets must be concise. "To take a 0.5 second off my time personal best time"

Must be measured and compared. "I will time my runs
every training session for the next five weeks of training"

Measureable

Target must be challenging but yet reachable. "My coach and I devised the training programme around improving leg power for my start"

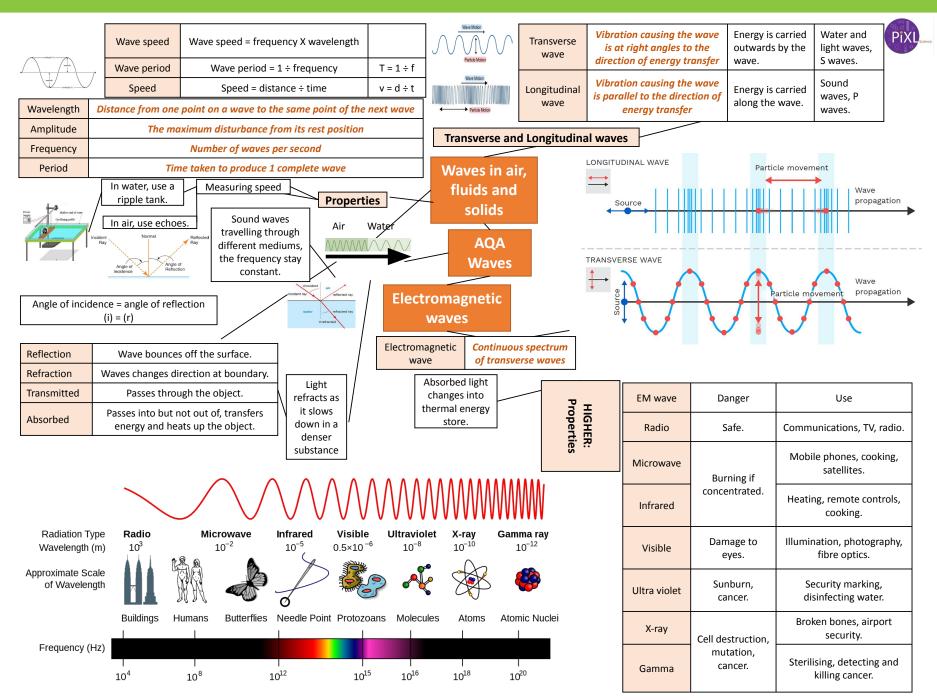
Achievable

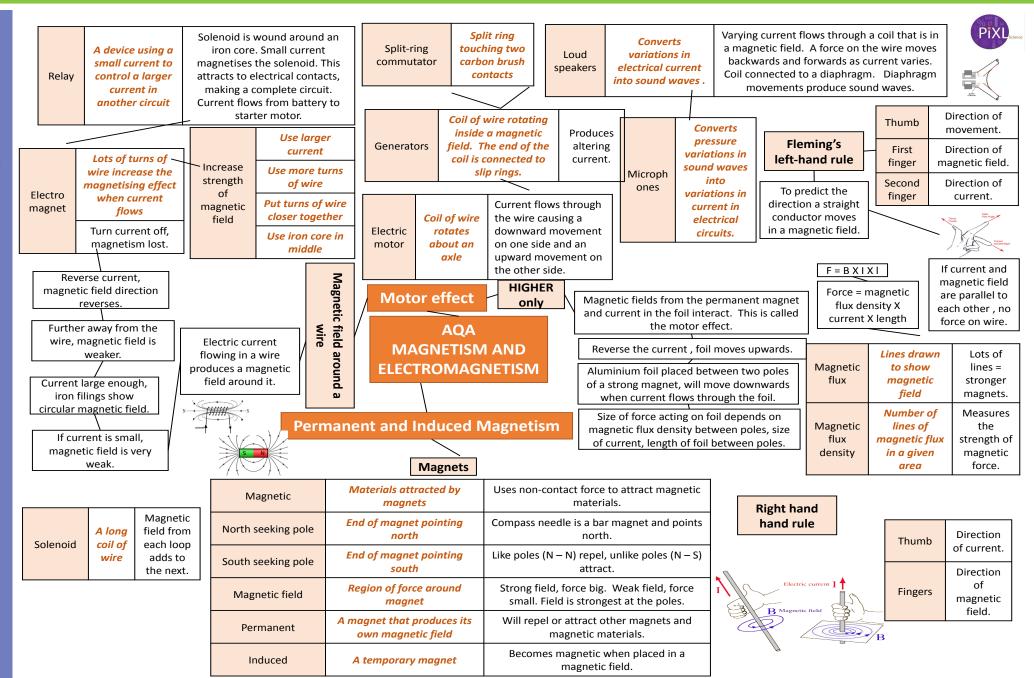
Matched to the performers skill
level. "We agreed that a 0.5
seconds off my personal best is
realistic for my current ability
and status"

Set for a particular time to be completed. "We agreed to do the training programme four times per week for the next five weeks"

Time-Bound

Realistic





Matters of Life and Death – Christianity

Topic	Christian Arguments	Arguments Against Christianity			
Origins of the universe	 Creationist Christians believe the world was created in 6 days by God Liberal Christians believe that God started the Big Bang They both believe the world is precious and made by God so we should look after it 	 Scientists believe in the Big Bang Theory The world was created 14 Billion years ago Scientific evidence and fossils back this up 			
Origins of Human Life	 Humans were created by God All life is precious – The Sanctity of life Creationist Christians believe God made us in his image Liberal Christians believe God formed us through evolution The Church General Synod have accepted evolution 	 Humans were created by evolution Natural selection and survival of the fittest have shaped how we are today There is no God – it is just down to nature 			
Abortion	 Pro-Life – The foetus has the right to life Life begins at conception God made every human unique and we should not take life Abortion is murder – against 10 Commandments Liberal Christians – treat others with kindness and love – should let abortion happen 	 Pro-Choice – The mother should have a choice if to have an abortion If the child is servery disabled abortion is best for everyone Humanism – Quality of life is important for both mother and baby Situation Ethics – Should always do the most loving thing so sometimes abortion is right 			
Euthanasia	 God made every human unique and we should not take life Only God can decide when we die God has a plan for everyone Euthanasia is murder – against 10 Commandments Liberal Christians – treat others with kindness and love – should let euthanasia happen 	 We shouldn't let humans suffer Humanism – Quality of life is important Situation Ethics – Should always do the most loving thing so sometimes euthanasia is right The Hospice Movement – Should support people in their death and be treated with dignity 			
Life After Death	 The is an afterlife with God – heaven or hell God will judge our lives and decide where we go The Resurrection of Jesus shows we will live on after death Other Arguments for LAD: Remembered Lives, Paranormal, Logic, Reward, Comfort, Meeting loved ones 	 Humanism – Reject LAD – we only get one life Richard Dawkins – Atheist – rejects LAD Story made up to comfort people No Evidence Social Control 			
Issues in the Natural World	 Christians are concerned about the issues faced by the natural world: Pollution, Global Warming, Deforestation, Abuse of Animals etc There are 3 different Christian approaches to these issues: Dominion, Stewardship, Utilitarianism The Christian Declaration of Nature says that Christians should respect the environment and care for it Many Christians believe animals should be treated with care and respect – BUT it is acceptable to use them for human benefit up to a point Some Christians disagree and oppose to the use of animals for human benefit 				

Matters of Life and Death – Christianity

	Linked Topics			
'All things have been created thro	'All things have been created through him and for him. He is before all things, and in him all things hold together'			
	'God made man in his own image'			
	'The body is the temple of the holy spirit'			
	'You knit me together in my mother's womb'	Origins of Human Life, Abortion, Euthanasia		
'God formed man of the dust of the gr	ound, and breathed into his nostrils the breath of life; and man became a living soul.'	Origins of Human Life, Abortion, Euthanasia		
	'Before I formed you in the womb I knew you'	Origins of Human Life, Abortion, Euthanasia		
	Do to others as you would have them do to you'	Origins of Human Life, Abortion, Euthanasia		
	'Love thy neighbour'	Origins of Human Life, Abortion, Euthanasia		
'A wise m	nan proportions his belief to the evidence' – David Hume	Origins of the Universe / Life, LAD		
"A delusion is something	hat people believe in spite of a total lack of evidence' - Richard Dawkins	Origins of the Universe / Life, LAD		
Key Words	Meaning			
The Big Bang Theory	The scientific theory that the world was created by a big bar	ng 14 billion years ago		
Commodity	A useful or valuable thing which satisfies particular w	vants or needs		
Stewardship	Looking after something so it can be passed on to the	next generation		
Sanctity of Life	Sanctity of Life The view that all life is holy and made by G			
Evolution	Evolution The process by which different species have developed fr			
Survival of the Fittest	Survival of the Fittest The idea that members of a species that are best suited to an			
General Synod	General Synod The national group within the Church of England that deba			
Abortion	Ending a pregnancy by deliberately removing a foetus by surg			
Pro Life	Holding the belief that the mother should be able to choose wh	nere to have an abortion		
Pro Choice	Holding the belief that the foetus has the righ	t to life		
Conception	The moment when the sperm fertilises the egg, creating an embry	o that develops into a baby		
Situation Ethics	The belief that decisions should be made in a situation based on wha	t is the most loving thing to do		
Humanism	The belief that there is not a God – but we should support and	l respect human beings		
Euthanasia	The deliberate ending of life of someone dying from a	painful disease		
Voluntary Euthanasia	Ending a person's life when they have asked	for it		
Non- Voluntary Euthanasia	Ending a person's life when they cannot ask but you believe it is wh	nat they would have wanted		
Assisted Suicide	When you help someone to end their own life v	ia suicide		
Quality of Life	Quality of Life The belief that life has value depending on how much enjoyment a			
The Hospice Movement				
Resurrection	Rising from the dead, like Jesus after the Crue	cifixion		
Spiritualist	Someone who believes the spirts of dead people can commu	unicate with the living		
Utilitarianism	The belief that the right course of action is the one that will produce the grea	test happiness for the greatest number		

Key introductory terms

Sociology The study of society. Sociologists look a range of factors in someone's social world.		
Society	A social grouping that shares the same geographical territory and has the same political authority and expectations.	
Culture	The whole way of life of a group of people in society e.g. clothes, food, music.	
Norms	These define appropriate and expected behaviour in different certain settings e.g. classroom, cinema, restaurant.	
Values	Ideas and beliefs that people have about what is desirable and worth striving for e.g. privacy & respect	
Socialisation Learning the norms and values of you culture and society.		
Primary socialisation This takes place in early childhood a where we learn basic behaviours an skills we need. Family are responsible		
Secondary socialisation	This takes place in later childhood and beyond, learn norms, values and culture. Agencies include education and media.	
Nature	The idea that behaviour and characteristics are innate (we are born with them) and due to biology.	
Nurture	The idea that behaviour and characteristics are learnt from our environment (sociologists believe this)	
Social structures	These form society's framework and set limits and guide behaviour e.g. family, class.	
Social processes The ways that humans are affected in their interactions with others in soci e.g. racism.		
Social issues These form society's framework and s limits and guide behaviour e.g. family, class.		
Status	A person's social standing or position in society. This can be affected by gender, age, class etc.	

Functionalist approach

Key sociologist: Durkheim

- *Society is positive and is in harmony
- *There is value consensus everyone agrees on what is important
- *Society is like a human body, we need all parts of it to be able to function
- *Agencies such as family, education and crime all help to keep society running smoothly and these are positive
- *No group in society has more power than another group
- But... Functionalists are accused of viewing society too positively.

Marxist approach

Key sociologist: Karl Marx

- *Society is negative and is based on conflict
- *Capitalism creates a divide between two social classes
- *The ruling class (bourgeoisie) own the businesses and exploit the working class (proletariat) for profit
- *Family, education, crime etc. all work to keep the class divide and benefit the ruling class
- *The working class do not realise they are being exploited
- *The only way to overcome this inequality is a revolution (and society becoming communist)

Feminist approach

- *Society is negative and is based on conflict
- **★**Society is divided by gender and is based on patriarchy (male domination and power)
- *Men have power and dominance in society and women are oppressed
- *Family, education, crime etc. all work to keep the gender divide and exploit women
- *For example, women may be victims of domestic abuse and may be taught gender roles that limit their opportunities in society

Weber's approach

- *People's ideas, values and skills have more of an influence on their position in society than class and money
- *Status (someone's social position) is not always linked to their class/money
- *E.g. some people have high status but do not have a lot of money (junior doctors) whereas some people may have low status but lots of money (lottery winners)

Interactionist approach

- *Society does not influence everyone in the same way
- *Everyone's experiences are different, you can't generalise about behaviour
- *People can be labelled as something (e.g. clever, naughty) which can affect how they see themselves
- *People might accept and live up to the label through a self-fulfilling prophecy

New Right approach

- *Society should be based on traditional values such as marriage
- *People should not be reliant on welfare benefits as this can create an underclass
- *Nuclear families are the best type (with a married mum and dad) and lone-parent families can cause issues

Consensus vs. conflict theories

Consensus theories

- *These theories believe society is based on consensus (agreement) and is in harmony
- ★Everyone shares the same norms and values and no one group has more power than another
- *E.g. functionalism

Conflict theories

- *These theories believe society is based on conflict (disagreement) and is divided
- *People in society have different norms/beliefs/values
- *Some groups have more power than others
- *E.g. feminism, Marxism

Research Methods

2

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Paper

Key methods terms

Aim	A general statement about what a sociologist expects to find out in research
Hypothesis	A prediction about what the sociologist expects they will find in research
Pilot study	A small test-run of a study which is carried out before the main study to check for any problems (e.g. equipment)
Sampling	How participants are chosen to take part in a study (e.g. volunteer, opportunity)
Primary data	Data which is collected first hand by the researchers (e.g. using a questionnaire or interview)
Secondary data	Data that already exists and is used by the researcher (e.g. official statistics, letters)
Quantitative data	Data which IS in the form of numbers
Qualitative data	Data which is NOT in the form of numbers and tends to be visual or in letters (e.g. diaries, photographs)
Validity	The accuracy of the findings – how truthful the data is.
Reliability	How consistent the findings are. If we repeated the study, would we find the same results?

Sampling methods

Random – all participants have an equal chance of being chosen (e.g. names out of hat)

- ✓ Less biased and likely to be more representative
- × May not be fully representative could choose all males Volunteer – participants choose/self-select to take part (e.g. responding to an advert)
- ✓ Easy to gain a sample, less likely to drop out
- ×May not be representative only certain people will agree Opportunity – participants who are available are chosen
- ✓ Easy to gain a sample × may not be representative

 Stratified— participants chosen according to % in the population

 ✓ Most representative × difficult for the researcher to do

Primary research methods

Method	Advantages	Disadvantages
Questionnaires	✓Participants are likely to be honest as anonymous ✓Can be given to a large sample so more representative	×Participants may not understand the questions ×May not be honest as want to appear desirable
Structured interviews (set questions)	✓Can compare responses easily between participants ✓Less likely to be biased as set questions	× May not get full detail or gain a deep understanding × Cannot ask additional questions
Unstructured interviews (no set questions)	✓Can get full detail and a deep understanding ✓You can build rapport/relationship so may be more honest	× May not get full detail or gain a deep understanding × Cannot ask additional questions
Group interviews	✓Can gain a variety of opinions ✓May be more honest as have group support	×Some participants might take over the interview ×Participants might be embarrassed to be honest
Participant observation (researcher joins group)	✓ May understand behaviour more as joining in ✓ Can ask questions to help with research	×Could be biased as too involved ×Difficult to note behaviour so may not be accurate
Non-participant observation (watches from a distance)	✓ Less likely to be biased as not involved ✓ Easier to note behaviour so more likely to be accurate	×May not get full understanding of behaviour as not involved in the group
Longitudinal study (follows a group over time)	✓ Can look at the influence of different factors over time ✓ Can gain detailed information of the group you study	×Participants may drop out of the study ×Sample is likely to be small so not representative

Secondary sources of data

Method	Advantages	Disadvantages	
Official statistics (quantitative)	✓ Often large sample sizes – more representative ✓ Easy to analyse and compare over time as quantitative ✓ Likely to be accurate as collected by the government	XMay not give reasons for behaviour (just trends) XMay not include all behaviours e.g. crime statistics may ignore the dark figure	
Documents (qualitative) e.g. letters, diaries, school reports	✓ Lots of detailed data as qualitative ✓ Can find reasons behind behaviour	XMay be small sample sizes and not representative XMay be time-consuming to analyse XCould be biased and not valid	

Triangulation and mixed methods

Where a sociologist uses more than one method to find out lots of information about a topic e.g. using a questionnaire, interview and observation. Is used to:

Gain more data on a topic

Check the validity/accuracy of the data

×But, the data may be difficult compare as it is collected using different methods.

Key terms

Agencies of social control - The groups in society who control and regulate our behaviour

Anomie - A sense of normlessness where people feel like there are no strict rules (a cause of crime)

Chivalry thesis - The criminal justice system (police, courts) are less harsh on women as they are less likely to be seen as 'bad'

Corporate crime - Crime committed by businesses with the aim of making profit for that business

Crime - An illegal act which is punishable by law
Criminal justice system - The system of police/ courts
/prisons to manage offenders and reduce re-offending
Dark figure of crime - All crimes that are not witnessed,
reported or recorded by police

Deviance - An act which goes against societies norms but may not be illegal

Deviancy amplification - The process whereby the mass media can exaggerate the significance of a crime or deviance in society

Formal social control - Where behaviour is controlled by official agencies associated with the government Informal social control - Where our behaviour is controlled by social pressure/agencies such as family Institutional racism - Where an organisation e.g. police shows racism and discrimination overtly or covertly Relative deprivation - Where an individual feels as though they are lacking the things that individuals who are similar to them have

Sanctions - The consequences of behaviour which are given by society

Self-report studies - Where individuals report crimes that they have committed themselves in a survey Status frustration - Where working class males are disappointed with their position in society and cannot achieve well due to education

Strain theory — Where individuals do not have the legitimate means to achieve the goals of society

Subculture - A group of individuals whose norms and values are different from mainstream society

Victim survey - Individuals complete a questionnaire to report crimes that they have been victims of

White collar crime — Crime committed by middle class professionals

Definitions of crime and deviance

Crime - an illegal act which is punishable by law e.g. theft, murder Deviance - n act which goes against societies norms but may not be illegal e.g. face tattoos

Why is crime and deviance difficult to define?

It varies by place – where the act takes place could se mean it's seen as criminal no

It varies by time – what is seen as criminal before may not be criminal now It varies by culture – what is deviant in one culture may not be in another

Statistics on crime and deviance

Police	All crimes recorded by the police.		
recorded crime	Advantage – Large scale data, can compare trends over time and between different places		
	Disadvantage – Does not include the dark figure of crime, crimes may not be witnessed (e.g. drug taking, domestic violence), reported (due to fear) or		
	recorded by the police (seen as trivial or time wasting) Only 60% of crimes are reported, only 40% of then recorded		
Victim	Crime survey for England and Wales (CSEW) - These surveys question people about their experiences of being victims of crime in the past 12 month		
,	Advantage – Can uncover crimes not reported/recorded by the police, can look at trends in who is likely to be a victim		
	Disadvantage – People may not be honest due to fear or may over exaggerate crimes, people may not realise they have been a victim of crime so don't report		
Self- report	These surveys question ask people to report any crimes that they have committed themselves in the past 12 months		
surveys	Advantage - Can uncover crimes not reported/recorded by the police, can look at trends in who is likely to be a criminal		
	Disadvantage - People may not be honest due to fear or may over exaggerate crimes – means statistics might not be accurate		

Social control

Formal social control	Informal social control	
Agencies associated with the government which enforce formal rules/written laws Examples: The police, courts, prison service, probation Sanctions can include fines, imprisonment	Agencies which enforce informal rules/norms/unwritten rules in society Examples: Family, peers, religion, media Sanctions can include social pressure, approval, disapproval, grounding etc.	

Functionalists view social control positively as it maintains social order/cohesion Marxists view it negatively as it is used by the ruling class to control the working class Feminists view it negatively as it is used by men to control women

Functionalist theories

Crime is inevitable and universal. It occurs when individuals can't achieve the goals of society.

Durkheim – Crime can be positive for society through –

1) Boundary maintenance 2) Changing society 3) Acts as a warning device 4) Provides jobs

Merton – Crime occurs due to strain – people cannot legally achieve the goals of society due to poor education/opportunities. 5 reactions – conformity, innovation, retreatism, rebellion and ritualism.

Marxist theories

Crime is negative and helps to maintain capitalism/keep the class divide. The ruling class create laws which benefit them and scapegoat the working class. The working classes are targeted by police and so are more likely to appear in crime statistics.

Middle class/white collar crime less likely to be detected.

Feminist theories

Crime is negative and helps to maintain patriarchy in society. Crimes such as domestic violence and sexual crimes are not taken seriously and female victims are not supported.

Female criminals are seen as 'double deviants' as they go against the law and expectations.

Interactionist theories

An act is only seen as criminal/deviant if it is labelled as such by society. Labelling can lead to a self-fulfilling prophecy and criminal becoming a master status. Individuals can spiral into a 'deviant' career and join deviant/criminal subcultures (Becker)

Subcultural theories

Criminal subcultures involve young males, show behaviour which goes against society's norms and are likely to show anti-social acts.

Cohen – working class boys experience status frustration and join delinquent subcultures to gain status/fight back against society

Deviance

Ø

Crime

2

Key studies

Merton (functionalist)

Merton argued that all members of society hold the same values. However, Merton believed that they did not have the same opportunity to realise their shared goals. Strain theory says crime occurs when individuals cannot legally achieve the goals of society. There are 5 reactions to strain, not all are criminal – conformity, innovation, ritualism, retreatism and rebellion.

Cohen (functionalist)

Cohen argues that working class boys hold the same goals as the rest of society, but that because of educational failure and poor employment prospects, they have little or no opportunity to realise those goals. They experience status frustration and join delinquent subcultures where they show vandalism, graffiti, joyriding etc. to gain status in their group.

Becker (interactionist)

An act only becomes seen as criminal/deviant when it is labelled as such. An individual could accept the label through a self-fulfilling prophecy which becomes their master status (what they see as their most important characteristic). They could spiral into a deviant career by joining a criminal or deviant subculture and commit further acts.

Carlen (feminist)

Used unstructured interviews with 39 working class women to understand reasons for crime. They turned to crime because they had less to lose and couldn't conform to the gender deal or the class deal. For example, they were less likely to have stable and happy relationships or well-paid jobs – they were more likely to turn to crime as they had less to lose.

Heidensohn (feminist)

She uses control theory to explain how patriarchy in society means women commit less crime. Women are controlled at home (by husbands), at work (by male bosses) and in public (by the threat or fear of male violence). Girls develop a bedroom culture. They have less opportunity for crime due to more controls being put over their behaviour.

Social class and crime

Trends – Working class are more likely to be convicted offenders / in prison

Reasons

Material and relative deprivation, Inadequate socialisation, Poorer education (strain theory), Status frustration (Cohen)

Why

might
statistics
not be
accurate?

Might are they take place in private, may not have a direct victim and are not policed accurate?

Material and relative deprivation, Inadequate socialisation, Poorer education (Strain theory), Status frustration (Cohen)

Bias within the criminal justice system – working class crimes (blue collar) are targeted more by police than middle class (white collar)

White collar crimes (e.g. fraud, tax evasion) are less likely to be detected – they take place in private, may not have a direct victim and are not policed corporate crimes (e.g. horse meat scandal) are less likely to be detected – may not have a direct victim and can be covered up

Gender and crime

Trends - 94% of the prison population are male, ¾ of convicted offenders are male

Reasons	Gender socialisation (men are socialised to be tough, risk taking) Lack of male role models in society More opportunity for crime / subcultures
Why might	Chivalry thesis – women may be treated more leniently in the CJS, seen as 'sad not bad' so don't appear in statistics
statistics not be	Female crime is increasing – women are committing more crime than before Ladette subcultures – women committing typically 'male crime' Carlen – working class women have less to lose by committing crime

Ethnicity and crime

Trends – 13% of the prison population are black vs. 3% in the general population, 9x more likely to be stopped and searched

Reasons	Higher chance of poverty/deprivation, poorer family backgrounds (more lone- parent), more chance of joining criminal subcultures
Why might	Institutional racism / Macpherson Report – police/courts are more likely to target BAME individuals
statistics not be	Stop and searches – 9X more likely for black individuals, 3x more likely to be arrested – more likely to appear in crime statistic
accurate?	Chief of Met policed voiced it is still racist, some forces have no BAME officers But anti-racism training, increased recruitment of BAME officers

Age and crime

Trend – 15-24 year olds most likely to appear in crime statistics **Reasons**: Socialisation, opportunity, subcultures, media

But... The police might target young people, crimes may be easier to detect

Treatment of young offenders

Sanctions available for young offenders: fines, referral orders, community sentences, CBOs, custody

Should young offenders be sent to prison/custody?

Yes
Protects the public, can
access rehabilitation
programmes, can act as a
deterrent

No Prisons may act as universities of crime, 73% reoffend, may join prison gangs

Prison as a punishment

Is prison the best form of punishment?

Functionalists – can rehabilitate offenders, act as a deterrent Universities of crime, 45% reoffend, not suitable for those with disabilities/mental health issues

Violent crime

Is violent crime an issue in society?

Statistics may not show true extent of violent crime Gun crime/knife crime are increasing Influence of the media in promoting violence No
Some statistics suggest
violent crime has
decreased since the 1990s
Anti-violence and antigang education introduced
into schools

The media and crime

Does the media show crime accurately?

Functionalist view – the media shows a range of views, pluralism, no one group dominates No Marxists – conflict view, agenda setting, media owned by ruling class, scapegoats working class, Exaggerates violent/sexual crimes

How can the media encourage crime?

Copycat crimes e.g. Daniel Bartlam, violence Deviancy amplification – the media creates moral panics, labelling and a self-fulfilling prophecy e.g. mods&rockers But... other factors may affect criminal behaviour

Key terms

Absolute poverty - Not being able to afford the basic things you need to survive in life e.g. food, clothing, Achieved status - Social positions are earned through personal talent, merit and effort, not fixed at birth Ascribed status - Social positions/status are fixed at birth (due to class) and do not change over time Bourgeoisie - The ruling class who owned the means of production and exploited the working class Culture of dependency — The welfare system encourages people to stay on benefits rather than support themselves through work

Glass ceiling - An invisible barrier in employment that prevents some groups such as women or ethnic minorities from gaining promotions

Life chances - The opportunity/chance of achieving positive or negative outcomes (e.g. healthy/ill, rich/poor) as you progress throughout life Power - The ability to get what you want, despite

Pressure group - A group formed to influence government policy on a particular issue

opposition

Relative poverty - Not being able to afford to meet the general standard of living compared to most other people in their society

Social exclusion - The inability of some groups in society (e.g. the elderly, the working class) to play a full part in society/access the full benefits

Social inequality - The uneven distribution of resources (e.g. money or power) and opportunities

Social mobility - The ability to move up the social ladder Social stratification - How society is structured in a hierarchy of layers based on factors such as age, gender Status - The social standing or prestige someone is given by other members of society.

Underclass - A group in society who have different attitudes and values to others. They experience long-term unemployment, tend to be reliant on benefits Wealth - The ownership of assets (e.g. property, land, jewelry) and savings, shares etc.

Welfare dependency - When individuals are reliant on the government for income for a prolonged period of time

Theories of social stratification

Functionalist - Social stratification is positive for society. Society is based on meritocracy and status is 'achieved' through hard work and effort.

'Role allocation' – top roles are filled by those who are able, ambitious and competitive – allows society to run smoothly.

Marxists Social stratification is negative for society. Society is based on conflict and status is 'ascribed' – is fixed at birth by class and cannot be changed.

Top roles are filled by the bourgeoisie and creates inequality.

Feminists Social stratification is negative for society. Society is based on conflict and patriarchy with the top roles being filled by men and women being lower in the hierarchy.

Social stratification and class

Working class Unskilled/manual work, lack of formal education		Middle class Professional jobs, formal education e.g. University	Upper Aristocracy, elite education, 'titles' given
How is class NS-SEC: Measures class by occupation (job) measured? × Ignores wealth/status as a measure of class			
Does class affect life		s – status is ascribed, working in education, employment, he	2000
chances?	equal chance		iety is based on meritocracy – e on life chances than class
Do we still have different	Life chances a	s – still a divide between the w re still poorer for the working e is still a separate working cla	class, low social mobility
classes in society?	Embourgeois	nalists – meritocracy, more w/o ement – the w/c may be becon nay be working class due to ch	ming more middle class

Social stratification and gender

Policies to reduce inequality - Equal pay act (1970), Sex Discrimination Act (1975), Equality Act (2010)	
Does gender affect life chances?	Yes - Feminists – women have poorer life chances due to patriarchy Women less likely to be CEOs, to be paid a high wage, face a glass ceiling, pay gap still exists
	No - Functionalists – society is based on meritocracy Improvements for women – more likely to attend University, pay gap has decreased, women have a higher life expectancy
Reasons why	Glass ceiling/patriarchy in the workplace Gender socialisation – women may take expressive role/lower paid careers

Factors affecting life chances

Life	Life expectancy, income, wealth, employment, education, housing, health
Class	Education: W/C - poorer GCSE grades Income: W/C - earn less, minimum wage Housing: W/C - rented, poor quality Life expectancy: W/C – lower, poorer health
Gender)	Education: Girls outperform boys Employment: Women lower paid, less income/wealth, less likely to be in top jobs Life expectancy: Women live longer
Ethnicity	Employment: 20% of black Caribbean men unemployed Employment: 4% of CEOs are BAME Education: Poorer GCSEs among some BAME groups and less likely to go to University
Age	Youth – lower income, higher unemployed Older age – more at risk of poverty, ageism in the workplace, poorer access to health services

Other factors - Disability, Sexuality, Religion/beliefs

Social stratification and ethnicity

Policies to reduce inequality – Race relations act (1976), Equality act (2010)

Does ethnicity affect life chances? Yes – 4% of CEOs are BAME, some groups have lower life expectancy, glass ceiling/lower paid jobs, poorer GCSE grades

No – Laws/policies have reduced inequality, some BAME groups more likely to go to University, differences among groups

Social mobility

More w/c go to University, achievement is increasing, functionalists- achieved status / meritocracy, statistics may not be

accurate

UK – one of lowest rates of mobility, top jobs more likely to be privately educated, only 35% think they have a fair chance, Marxists – inequality due to capitalism

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Stratification

ocial

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Key studies

Davis and Moore (functionalist)

Society needs to place people into roles / social positions that need to be filled for society to operate smoothly. Some roles come with higher status (doctors, lawyers). People who fill the top roles are the most able, have the most drive/ambition and are the most competitive.

Marx (Marxist)

Class is an important division, the bourgeoisie have power/control over the proletariat who are exploited for profit. The working class and petty bourgeoisie didn't benefit from the growth of capitalism. Small business couldn't compete and had 'downward social mobility'. The working class are not aware of their exploitation.

Devine

Conducted interviews at a car factory in the 1980s. She found evidence of the working class still being separate and still had working class values. This goes against the idea of embourgeoisement.

Townsend

Conducted surveys on 2000 households about poverty, used relative poverty index and found the government underestimated poverty (6% vs. 22%). Concluded that poverty should be measured using a number of factors.

Murray (New Right)

There is a growing underclass in British society caused by overgenerous welfare benefits. Can be seen in three ways – welfare dependency, juvenile delinquency, loss of traditional values.

Weber

Believed class is important but is not just tied to income/wealth, status and power can affect someone's position in society too. He thought capitalism actually expanded the middle class and a revolution by the working class is possible.

Distinguished between three types of power in society – charismatic, traditional and rational legal.

Walby (Feminist)

Men have more power in society due to patriarchy. This is shown in 6 ways – paidworl/employment, labour in the home, patriarchal culture, sexuality, male violence and the state. Public patriarchy is now more likely to exist than private patriarchy.

Poverty

Definitions of poverty

Not being able to afford things you need to survive e.g. food/shelter Politicians prefer it (looks like less people are in poverty) and is a fixed definition, does not change between countries

Absolute

Not being able to afford the general standard of living in society e.g. internet Sociologists prefer it (more accurate) and takes into account differences in standards of living between countries.

Relative

Reasons / explanations of poverty

Reasons	Poor health, divorce, old age, disability, unemployment, lack of education
The poor are responsible	Culture of poverty – Socialised within a subculture to accept poverty, see it as normal, unlikely to try and get themselves out of it. Leads to a cycle of deprivation – poverty being passed from one generation to the next.
	Cultural deprivation – May not have the correct norms and values to be motivated to get out of poverty, may seek immediate gratification (e.g. spending money rather than saving)
	Welfare dependency – Overgenerous welfare benefits could mean there's no incentive to work for less than you would receive. Can lead to the poverty trap.
Society is responsible	Class inequality — Marxists argue capitalism is responsible for poverty as the working class are not given opportunities to get out of poverty (low wages

with less manufacturing jobs as these have moved abroad. Are poverty statistics accurate?

Globalisation - Has led to a higher cost of living and low minimum wages,

and zero hour contracts, low social mobility)

Yes	No
Functionalists -	Marxists – statistics underestimate poverty so the working class
official statistics are	believe society is fair and do not revolt
accurate	Feminists – statistics underestimate female poverty due to lower wages, less opportunities etc.
	Townsend – governments underestimate poverty and should use relative measures

Is poverty still an issue in society?

162	NO
Poverty rates are increasing for all age groups (1/5 people)	Functionalists – government policies have aimed to reduce poverty
Marxists – minimum wages and zero hour contracts still cause poverty	Less people are in absolute poverty now
Feminists – poverty is still an issue for women	

Power and authority

100000000000000000000000000000000000000	wer – power from the title/role someone has - power from respect/appreciation earnt			
Forms of	Traditional – inherited (e.g. monarchy), based on established customs/traditions			
power / authority	Charismatic – shown by a leader with persuasive/inspirational qualities			
	Rational legal – shown by organisations through laws, rules and regulations			
Who has power?	The ruling class have power over the workin class (Marxist view)			
	Men have power over women (in employment, the home, society, violence, the government) (feminist view)			
	Heterosexuals – LGBT may have less power in politics/police etc.			
	White individuals – BAME groups under- represented in politics			
	Older people – younger may be excluded from politics (vote at 18)			

Power of the state

Political system in the UK – democracy, first past the post system (MPs elected based on votes in constituency) Other systems – dictatorships (one person in power), proportional representation

Can the public influence the state?

Yes – pluralist view, pressure groups, petitions, protests etc.

No – conflict approach, Marxists, power of businesses rather than the public

The underclass

Does the underclass still exist?

Murray – underclass is in Britain, can be seen in welfare dependency, juvenile delinquency and a loss of values Members of the underclass were blamed for the London riots There are more loneparent families in the underclass

Murray blames the victims for being welfare dependent but could be due to divorce etc. Marxists – the underclass are scapegoated to blame for society's problems Many people who are on benefits still aspire to have paid employment/better themselves

La casa, vida sana y los problemas sociales y globales (THEME 2- Social and Global Issues) (FOUNDATION)

1.1 ¿Cómo es tu casa o tu piso? (How is your house/flat like?) Quizlet 1.1

Vivo en una casa grande- I live in a big house Vivo en un piso - I live in a	Mi casa es My house is Mi piso es My flat is	Moderna/o (modern) - Antiguo/a (old) Grande (big)- pequeño/a (small) cómodo/a (comfortable) tradicional (traditional)	En la cocina hay In the kitchen there is / there are un fregadero - kitchen sink un lavaplatos / lavavajillas- dishwasher un microondas- microwave	Además, está situado/a en el centro/este/norte/oeste In addition, it is located in the centre/east/north/west
Mi familia y yo vivimos en una casa con jardín- my	Mi piso en el pasado era My flat in the past was	Está* sucia/o (it is dirty) Está* limpia/o (it is clean)	En el salón hay In the living room there is / there are una alfombra- a carpet un sofá- a sofa una mesa y sillas - a table and chairs	Por otro lado, hay muchos bosques
family and I live in a house with garden Mi hermano y yo vivimos en un apartamento My brother and I live in an apartment	Mi casa/ piso tiene My house/flat has Antes, mi casa / piso tenía Before, my house /flat used to have	tres dormitorios (3 bedrooms) dos baños (two bathrooms) una cocina amplia (a spacious kitchen) un comedor (a dining room) un estudio(a study) un salón(a living room) un aseo (a toilet) un jardín (a garden) un sótano (a basement / cellar)	unas plantas- some plants En el baño hay In the toilet there is / there are un lavabo- a sink/washbasin/ una ducha- a shower una bañera- a bath/ un espejo- a mirror En el dormitorio hay In the bedroom there is / there are una cama- a bed/ unas cortinas- some curtains armarios- wardrobes/ estantes- shelves	On the other hand, there are many woods Pero antes estaba entre el desierto y la sierra But before it used to be between the desert and the mountain range

Grammar Non-Negotiables: Key verbs in different tenses Quizlet

DPR9: Imperfect	DPR9: Preterite	DPR8: Present	DPR11: Conditional
había = there used to be	Fui a = I went to	hay = there is/are	me gustaría visitar = I'd like to visit
teníamos = we used to have	tuve la oportunidad de = I had the	tiene = it has	invertiría dinero en = I'd invest money in
era = it used to be	opportunity to	tenemos = we have	nos permitiría = it'd allow us to
(no) se podía = you could (not)	fuimos a = we went to	tenemos que = we have to	deberíamos = we should
la gente pensaba que = people used to think	visité = I visited	se puede = you can	visitaría = I would visit
that	visitamos = we visited	vamos= we go	Iría = I would go
estaba en= it used to be in (location)	mi hermano fue a= my brother went to	voy= I go	Visitaríamos = we would visit
tenía= it used to have	Mi hermana pensó que = my sister thought	Suelo ir= I usually go	Iríamos = we would go
visitaba= I/he/she used to visit	that	Solemos ir= we usually go	

La casa, vida sana y los problemas sociales y globales (THEME 2- Social and Global Issues) (FOUNDATION)

1.2 ¿Llevas una vida sana? (Do you have a healthy lifestyle?) Quizlet list 1.2.

Normalmente (no) llevo	Una vida sana ya que	Negative:	Negative:
Normally I (don't) have	A healthy lifestyle	Drogarse – take drugs	Es peligroso para mi salud- It is dangerous for
	because	Fumar - smoking	your health
		Emborracharse – get drunk	Ya que el alcohol/ <u>las drogas</u> afecta(n) a tu salud
		Comer comida basura / comida rápida- eat junk	Because alcohol/drugs affect your health
		food/ fast food	Causa enfermedades como diabetes / cáncer /
		Levantarse temprano – to wake up early	depresión It causes illnesses like diabetes/ cancer
			/ depression
En el pasado (no) llevaba	Una vida sana ya que	Positive:	Positive:
Normally I didn't have /had	A healthy lifestyle	Hacer ejercicio- do exercise	Tiene beneficios para el corazón / los pulmones-
	because	Evitar el estrés- avoid stress	It has benefits for the heart/ lungs
		Comer bien- eat well	Te permite mejorar tu salud mental- It allows
		Dormir ocho horas- sleep 8 hours	you to improve your mental health
		Acostarse tarde – to go to bed late	

1.3 Describe los problemas medioambientales (Describe environmental problems) Quizlet list 1.3

Me preocupa(n) I'm worried			Causa	El cambio climático- climate change
Me molesta(n) I'm annoyed by	la contaminación del aire- air pollution	Ya que	it causes	Huracanes- hurricanes El calentamiento global- global warming
Lo que más me preocupa(n) es	la contaminación acústica- noise pollution	Puesto que		Contaminación atmosférica- atmospheric pollution Enfermedades pulmonares- lungs illnesses
The thing that worries me the	la deforestación- deforestation		Afecta a	La flora y la fauna - nature/ plants and trees
most is	la falta de transporte público- the lack of public	Dado que	it affects	La vida marina-marine life
Lo que más me molesta(n) es The thing that annoys me the	transport	Porque		Las playas- beaches La naturaleza- nature
most is	el malgasto de energía/agua- the waste of			
El problema medioambiental más serio es	energy/water			
The most serious environmental problem is				

La casa, vida sana y los problemas sociales y globales (THEME 2- Social and Global Issues) (FOUNDATION)

1.4 ¿Qué opinas de la pobreza y los sin techo? (What do you think about poverty and homeless people?) Quizlet list 1.4

Me preocupa It worries me	El paro- unemployment El hambre- hunger	Se necesita(n) más	Oportunidades de trabajo- job opportunities
Me molesta It annoys me	La diferencia entre los ricos y los pobres- the difference between rich and poor La criminalidad- crime La pobreza- so much poverty Los sin techo- homeless people	We need more	Bancos de alimentos- food banks Viviendas nuevas- new houses Ayudas económicas- financial support
Sin embargo, en el pasado me preocupaba más- However, in the past, I was more worried about	El paro- unemployment El hambre- hunger La diferencia entre los ricos y los pobres- the difference between rich and poor La criminalidad- crime La pobreza- so much poverty Los sin techo- homeless people	Pero a mi hermano le preocupaba But my brother was worried about	El paro- unemployment El hambre- hunger La diferencia entre los ricos y los pobres- the difference between rich and poor La criminalidad- crime La pobreza- so much poverty Los sin techo- homeless people

1.5 ¿Te gustaría hacer un voluntariado? (Would you like to do voluntary work?) Quizlet list 1.5

Si fuera posible	Me gustaría trabajar	Una tienda benéfica Charity shop	Porque quiero Because I want	Ayudar a la gente mayor Help the elderly
(If it were possible)	como voluntario/a en (I would like to work as a volunteer in)	Una residencia de ancianos Nursing home Un hogar de menores Children's	Ya que es importante Because it is important	Trabajar con niños necesitados Work with children in need Ayudar a los sin techo Help homeless people Apoyar a los demás Support others
Si tuviera la		home		
oportunidad (If I had the chance)	Me gustaría ayudar en (I would like to help	Un banco de alimentos Food bank Un comedor social Soup kitchen	Puesto que es importante Because it is important	Ayudar a la gente Help people Proteger la naturaleza Protect nature
	in)		Porque me permite ayudar a los demás Becaus Ya que es importante apoyar a otras personas people	•

La casa, vida sana y los problemas sociales y globales (THEME 2- Social and Global Issues) (HIGHER)

1.1 ¿Cómo es tu casa o tu piso? (How is your house/flat like?) Ouizlet 1.3

Vivo en una casa adosada-/ live in a semi-detached house Vivo en un bloque de pisos -I live in a block of flats Mi familia y yo vivimos en un chalet - my family and I live in a detached house Mi hermano y yo vivimos en una granja - my brother and I live in a farm Mi hermana vive en una casa con jardín- my sister lives in a house with a garden Vivo de alquiler en un apartamento con mi **hermano** *I live renting an* apartment with my brother

Mi casa es...
My house is
Mi piso es...
My flat is...
Mi casa ideal sería
My ideal house would be
la casa de mis sueños
sería- my dream house
would be
Mi piso en el pasado era
My flat in the past was

Mi casa/ piso tiene...

My house/flat has...

Antes, mi casa / piso

Before, my house /flat

Mi casa ideal tendría

My ideal house would

tenía

have

used to have

tres dormitorios (3 bedrooms)
dos cuartos de baño (two bathrooms)
una cocina amplia y bien equipada (a
spacious, well-equipped kitchen)
un comedor recién renovado (a recently
refurbished dining room)
un estudio(a study)/un salón(a living room)
un aseo (a toilet) / un jardín (a garden) un
sótano (a basement / cellar)

Moderna/o (modern) - Antiguo/a (old)

Enorme (huge)/Espaciosa/a (spacious)

Grande (big)- pequeño/a (small)

amplia/o / espaciosa/o (spacious)

cómoda (comfortable)

tradicional (traditional)

Está* sucia/o (it is dirty)

Está* limpia/o (it is clean)

En la cocina hay... - In the kitchen there is / there are... un fregadero - kitchen sink un lavaplatos / lavavajillas- dishwasher un microondas- microwave

En el salón hay... - In the living room there is / there are...
una alfombra- a carpet
un sillón / un sofá- a sofa/couch
una mesa y sillas - a table and chairs
unas plantas- some plants

En el baño hay... - In the toilet there is / there are... un lavabo- a sink/washbasin/ una ducha- a shower una bañera- a bath/ un espejo- a mirror

En el dormitorio hay... - In the bedroom there is / there are...

una cama- a bed/ unas cortinas- some curtains armarios- wardrobes/ estantes- shelves

Además, está situado/a en un valle In addition, it is located in a valley

Por otro lado, está lleno/a de bosques / selvas On the other hand, it is full of woods / rainforests

Además, estaría rodeado/a de volcanes / sierra
In addition, it would be surrounded by volcanoes / mountains

Por otro lado, estaría a ... metros sobre el nivel del mar On the other hand it would be... metres above sea level

Pero estaba entre el desierto y la sierraBut it used to be between the desert and the mountain range

Por otro lado, tiene unos impresionantes paisajes naturales On the other hand, it has some amazing natural landscapes

Grammar Non-Negotiables: Key verbs in different tenses Quizlet

DPR9: Imperfect	DPR9: Preterite	DPR8: Perfect	DPR8: Present	DPR11: Conditional
había = there used to be teníamos = we used to have era = it used to be (no) se podía = you could (not) la gente pensaba que = people used to think that estaba en= it used to be in (location) tenía= it used to have visitaba= l/he/she used to visit	Fui a = I went to tuve la oportunidad de = I had the opportunity to fuimos a = we went to visité = I visited visitamos = we visited mi hermano fue a= my brother went to Mi hermana pensó que = my sister thought that	hemos invertido mucho dinero en = we've invested lots of money in hemos tenido problemas con = we've had problems with he notado cada vez más problemas con = I've noticed more and more problems with he decidido= I have decided Hemos decidido= we have decided Ha decidido= he/she has decided	hay = there is/are tiene = it has tenemos = we have tenemos que = we have to se puede = you can vamos= we go voy= go Suelo ir= usually go Solemos ir= we usually go	me gustaría visitar = I'd like to visit invertiría dinero en = I'd invest money in nos permitiría = it'd allow us to deberíamos = we should visitaría = I would visit Iría = I would go Visitaríamos = we would visit Iríamos = we would go

La casa, vida sana y los problemas sociales y globales (THEME 2- Social and Global Issues) (HIGHER)

1.2 ¿Llevas una vida sana? (Do you have a healthy lifestyle?) Quizlet list 2.2.

		Negative:	Negative:
Normalmente (no) llevo	Una vida sana ya que	Acostarse tarde- go to sleep late	Es perjudicial para la salud- It is harmful for your health
Normally I (don't) have	A healthy lifestyle because	Drogarse – take drugs	Es peligroso para mi salud- It is dangerous for your health
		Fumar - smoking	Ya que el alcohol/las drogas afectan tu capacidad para tomar
En el pasado (no) llevaba	Una vida saludable dado que	Emborracharse – get drunk	decisiones Because alcohol/drugs affect your capacity to make
Normally I didn't have /had	a healthy lifestyle because	Comer comida basura / comida rápida- eat junk food/ fast food	decisions
		Tomar bebidas azucaradas – drink sugary drink	Causa enfermedades como diabetes / cáncer / depresión /t causes
			illnesses like diabetes/ cancer / depression
En el futuro (no) llevaré	Una vida sana ya que	Positive:	Positive:
In the future I will (not) have	A healthy lifestyle because	Mantenerse en forma- keep fit	Nos permite desarrollar los músculos- It allows us to develop the
Dentro de cinco años (no) voy a llevar	Una vida saludable dado que	Hacer ejercicio- do exercise	muscles
Within five years I am (not) going to have	Una vida saludable dado que a healthy lifestyle because	Hacer ejercicio- do exercise Evitar el estrés- avoid stress	muscles Tiene beneficios para el corazón / los pulmones- It has benefits for
1	· ·	•	
Within five years I am (not) going to have	a healthy lifestyle because	Evitar el estrés- avoid stress	Tiene beneficios para el corazón / los pulmones- It has benefits for
Within five years I am (not) going to have Es importante que lleve	a healthy lifestyle because Una vida sana puesto que	Evitar el estrés- avoid stress Comer bien- eat well	Tiene beneficios para el corazón / los pulmones- It has benefits for the heart/ lungs

1.3 Describe los problemas medioambientales (Describe environmental problems) Quizlet list 2.4

Me preocupa(n) /me molesta(n) I'm worried/annoyed by A le preocupa(n)/molesta(n) Is worried/annoyed by Lo que más me preocupa(n)/molesta(n) es The thing that worries/annoys me the most is El problema medioambiental más grave es The most serious environmental problem is	Los animales en peligro de extinción- animals in danger of extinction la contaminación del aire- air pollution la contaminación acústica- noise pollution el efecto invernadero- the greenhouse effect la deforestación- deforestation la falta de transporte público- the lack of public transport el malgasto de energía/agua- the waste of energy/water el agujero en la capa de ozono- ozone depletion los problemas de las mareas negras- the slick problems	Ya que Puesto que Dado que Porque	Podría (it could)	Causar cause Afectar a affect Constituir be Amenazar threaten	El cambio climático- climate change / Huracanes- hurricanes Sequías- droughts / El calentamiento global- global warming Incendios forestales- forest fires / Contaminación atmosférica- atmospheric pollution Enfermedades pulmonares- lungs illnesses La flora y la fauna / Las aves marinas- sea birds La vida marina-marine life / Las playas- beaches Un riesgo para la salud- a risk for health Un riesgo para la vida de los animales- a risk for animals' lives El planeta- the planet / La vida humana- human life La vida de los animales- animals' life
Los animales en peligro de extinción -anima	ls in danger of extinction			1 -	oing to survive and are going to disappear
la contaminación del aire- air pollution		es cuando is when	es amon respirar en las cidadaes a dada del con		ciudades a causa del CO2
la contaminación acústica- noise pollution		pasa cuando		hay un exceso de ruido- there is noise excess	
el efecto invernadero- the greenhouse effect		happens wh	en	Hay un aumento de los atmosphere	gases en la atmósfera- There's an increase of gases in the
la deforestación- deforestation		is a serious problem because es un problema grave porque		cortamos árboles en las selvas y no los reemplazamos we cut down trees in the rainforests and we don't replace them	
la falta de transporte público- the lack of public transport				Necesitamos más trenes y autobuses para reducir el uso del coche We need more trains and buses to reduce the use of cars	

La casa, vida sana y los problemas sociales y globales (THEME 2- Social and Global Issues) (HIGHER)

el malgasto de energía/agua- the waste of energy/water	no pensamos en las consecuencias de no apagar los electrodomésticos
	we don't think about the consequences of not switching off appliances
	muchas personas no pueden acceder al agua limpia
	many people cannot access clean water

1.4 ¿Qué opinas de la pobreza y los sin techo? (What do you think about poverty and homeless people?) Quizlet list 2.5

Me preocupa It worries me	Que haya	Demasiado paro- too much unemployment	Se necesita(n) más	Empleo- employment
Me molesta It annoys me	That there	El paro/ el desempleo- unemployment	We need more	Oportunidades de trabajo- job opportunities
Me fastidia It annoys me	is/there are	El hambre- hunger / La diferencia entre los ricos y los pobres- the difference		Bancos de alimentos- food banks
Me irrita It irritates me		between rich and poor / Demasiada criminalidad- too much crime		Viviendas nuevas- new houses
		Tanta pobreza- so much poverty		Hospitales- hospitals
		Tanta gente sin techo/ sin hogar- so many homeless people		Programas de ayuda- aid programmes
				Ayudas económicas- financial support
Sin embargo, en el pasado me	El paro/ el de	sempleo- unemployment	Pero a mi hermano	La falta de empleo -The lack of employment
preocupaba más- However, in the	El hambre- h	unger	le irritaba	La escasez de ayudas económicas- The lack of financial support
past, I was more worried about	La diferencia	entre los ricos y los pobres- the difference between rich and poor	But my brother was	La falta de ayuda del gobierno- The lack of help from the
Pero hace cinco años me molestaba	La criminalid	ad-crime	irritated by	government
más - But five years ago I was more	La pobreza- p	poverty		El problema de los desalojos - The eviction problem
annoyed by	Los sin techo	/ sin hogar- homeless people		

1.5 ¿Te gustaría hacer un voluntariado? (Would you like to do voluntary work?) Quizlet list 2.1

Si fuera posible (If it were possible) Si tuviera la oportunidad (If I had the chance) Si me tocara la lotería (If I won the lottery) Si fuera famoso/a (If I were famous)	Trabajaría como voluntario/a en (I would work as a volunteer in) Ayudaría en (I would help in) Recaudaría dinero para	Una tienda benéfica Charity shop Una residencia de ancianos Nursing home Un hogar de menores Children's home Un banco de alimentos Food bank Un comedor social Soup kitchen Una organización benéfica Charity	Porque quiero Because I want Ya que es importante Because it is important Porque me parece esencial Because it seems essential to me Puesto que es importante que hagamos campañas de	Ayudar a la gente mayor Help the elderly Trabajar con niños necesitados Work with children in need Atender a los clientes Take care of /serve clients Ayudar a los sin techo Help homeless people Apoyar a los demás Support others Ayudar a la gente del Tercer Mundo Help Third
Si tuviera mucho dinero (If I had a lot of money)	(I would raise money for)	Un grupo ecologista Environmental group	concienciación para Because it is important that we do awareness campaigns for	World people Proteger la naturaleza Protect nature
Si fuera alcalde/alcaldesa (If I were the mayor)	Participaría en (I would participate in)	Un partido de fútbol/baloncesto Football/ basketball match Un concurso de natación Swimming contest Un maratón marathon	Porque me permite pasar tiempo ayudando a los más necesit helping those most in need Ya que es importante apoyar a otras personas Because it is im	·

1.6 Subjunctive with social issues Quizlet list 2.3

No es justo que It's not fair that Es terrible que It's terrible that Es una vergüenza nacional que It's a national shame that Es un escándalo que It's a scandal that	Haya (there is/there are) Tengamos	tanta desigualdad social so much social inequality tanta gente sin techo so many homeless people tanta gente obesa so many obese people tantos drogadictos/ alcohólicos so many drug addicts / alcoholics	
Me da pena que It's a scandal that Me da pena que It saddens me that	(we have)	tantos drogadictos/ alcohólicos so many drug addicts / alcoholics	

KS4

Textiles

As a means to further develop your critical thinking and interpretation/analytical skills, as well as a means to develop your cultural capital and creativity, it is important for your to expose yourself to the work of a range of Textile designers/artists. This year, two of the Textiles artists you will be looking at are discussed below:

Billie Zangewa

Billie Zangewa (born in 1973 in Blantyre, Malawi) is a half-Malawian, half-South African artist who hand sews silk fabrics to create collage tapestries, and who now lives in Johannesburg. Since 2004, her art has featured in international exhibitions including at the Paris Art Fair at the Grand Palais in Paris. Zangewa's work is autobiographical and centralizes Black femininity and everyday domesticity and motherhood. Her artistic approach is indicative of the artist's expressing resistance to the oppression she faces through self-love.



Zangewa works primarily with raw silk offcuts in intricate hand-stitched collages, creating figurative compositions that explore her intersectional identity in the contemporary context and challenge the historical stereotyping, objectification and exploitation of the black female body. Working in a flat, colourful style, she depicts narratives concerned with experience: both personal and universal. These narratives do not make grand gestures or even overt political statements, but rather focus on mundane domestic preoccupations; universal themes connecting us to each other. Almost always the protagonist in her works, Zangewa becomes a heroine whose daily life is revealed through the scenes she illustrates.

Zangewa's finished tapestries celebrate imperfection with their raw, irregular edges and often large pieces seemingly cut out of the tapestry that seem to impede on the scene. This tactic also works to break any illusions of the work being painted on canvas.



Sheila Hicks

Sheila Hicks (born 1934) is an American artist. She is known for her innovative and experimental weavings and sculptural textile art that incorporate distinctive colours, natural materials, and personal narratives.

Working primarily with fibre; Hicks creates vibrant and dynamic sculptures and wall hangings that refer to traditional artisan textiles such as weaving, knitting,

knotting, and braiding. Her fibre forms – with their bright colours – whether shaped into vertical cords, disks, or horizontal tubes, present a visual experience.





KS4

Textiles

In Textiles Design we use a range of specialist techniques in order to decorate textiles to make them more aesthetically pleasing and interesting. The information below explains some of the techniques you will explore this year.

Tufting

Tufting is the act of a needle punching through a backing material in the form of a loop. The traditional method is to stretch Monks Cloth over a frame and punch yarn through it using a tufting gun or tufting needle. Depending on loop heights, these loops can add texture, dimension, and, if cut, the "cut pile" can add a velvet like appearance to the tufted area.







Fabric Painting

Fabric painting simply refers to any painting done on a fabric. It encompasses everything from ancient artifacts with intricate resist paintings to the painting a young child may do on a t—shirt. Fabric painting has been around for thousands of years.



3D Shibori

3D Shibori is a technique for adding texture and shaping textiles. You wrap items into fabric, secure them with thread and set them with heat, and in this way the process leaves a "memory on cloth" – a permanent record, whether of patterning or texture, of the particular forms of resistance to the change. Cloth holds the memory of action performed on it!



Wet Felting

Wet felting involves creating rectangular fabric made of several layers of wool (not plant or synthetic fibres because those won't felt well), applying water and mild soap, and sponging or agitating the wool to encourage the fibres to lock together



Lino Printing

Lino Printing is a form of block printing that involves carving a pattern or design into a linoleum, rubber or vinyl surface that can then be printed from. The recesses carved out leave the design in relief and it is the raised design that the ink is applied to and then transferred to the paper when pressure is applied by hand or printing press.



Screen Printing

Screen printing, also known as silk screening or silkscreen printing, is the process of transferring a stencilled design onto a surface using a mesh screen, ink, and a squeegee (a rubber blade). The basic process of screen printing involves creating a stencil on a mesh screen and then pushing the ink to create and imprint the design on the below surface.



SPaG

Grammar: Write in sentences

A sentence is a group of words that make sense. Sentences start with a capital letter and end with a full stop, question mark or exclamation mark. All sentences contain **clauses**. You should try to use a range of sentences when writing. There are three main types of sentences.

Simple sentence: A sentence containing one main clause with a subject and a verb.

He reads.

Literacy is important.

<u>Compound sentence</u>: Two simple sentences joined with a <u>conjunction</u>. Both of these simple sentences would make sense on their own. Varying conjunctions makes your writing more interesting.

He read his book because it was written by his favourite author.

Literacy is important so students had an assembly about reading.

Complex sentence: A longer sentence containing a main clause and one or more subordinate clause (s) used to add more detail.

The main clause makes sense on its own. However, a subordinate clause would not make sense on its own, it needs the main clause to make sense. The subordinate clause is separated by a comma (s) and/or conjunction. The clause can go at the beginning, middle or end of the sentence.

He read his book even though it was late.

Even though it was late, he read his book.

He read his book, even though it was late, because it was written by his favourite author.

How can you develop your sentences?

1. Start sentences in different ways. For example, you can start sentences with adjectives, adverbs or verbs.

Adjective: Funny books are my favourite!

Adverb: Regularly reading helps me develop a reading habit.

Verb: Looking at the front cover is a good way to choose a reading book.

2. Use a range of punctuation.

3. Nominalisation

Nominalisation is the noun form of verbs; verbs become concepts rather than actions. Nominalisation is often used in academic writing. For example:

It is important to **read** because it helps you in lots of ways.

Becomes: Reading is beneficial in many ways.

Germany invaded Poland in 1939. This was the immediate cause of the Second World War breaking out.

Becomes: Germany's invasion of Poland in 1939 was the immediate cause of the outbreak of the Second World War.

Cause	Because
And	So
Effect	Consequently
	Therefore
	Thus
Addition	And
	Also
	In addition
	Further (more)
Comparing	Whereas
	However
	Similarly
	Yet
	As with/ equally/ Likewise
Sequencing	Firstly
	Initially
	Then
	Subsequently
	Finally
	After
Emphasis	Importantly
	Significantly
	In particular
	Indeed
Subordinate	Who, despite, until, if,
	while, as, although, even
	though, that, which





Year 11 Knowledge Organiser



