Year 10

Knowledge Organiser 5

Summer Term: 2024-25

Master Copy Name:

Registration Form: 10

Bournemouth School

Knowledge Organiser: Year 10 Summer

'Knowledge is power' by Francis Bacon

A knowledge organiser provides you with all the most important knowledge you need for each unit of study this half term. Your aim is to transfer all of this information into your long-term memory so you can use it in your lessons and further expand your understanding of this work.

How to use your knowledge organiser (KO):

- 1. Ensure you have your KO and Homework Learning journal with you at all times in school and when you need to do your homework at home.
- 2. In lessons when you have covered information that appears on your KO, your teacher will ask you to put a tick next to that section. This means that is now added to what you must learn for homework.
- 3. Initially, follow your homework timetable to decide what to revise each evening.
- 4. There are 4 strategies that you can use to revise. They are progressively more challenging so always start with the first in the list.

a. Look Cover Write Check

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. LOOK carefully at the subject and section of your KO you want to revise and try to remember as much as you can. Remember this should be a ticked section.
- iii. Now COVER this information so you can't read it.
- iv. WRITE out what you can remember word for word in your Homework Learning Journal.
- v. CHECK what you have written by comparing it to your KO. Tick each correct word in green pen and correct any errors you have made.
- vi. Repeat this process until you are confident you can remember everything you need.

AIM:

You should be able to repeat the information by rote

b. Self or peer quizzing

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. Write out a list of questions you could ask either yourself or a friend about this section of the KO. Write these in your Homework Learning Journal.
- iii. If you are working on your own, cover the KO and write a full answer to each question.
- iv. If you are working with a partner swap books and copy down their questions and have a go at answering them.
- v. Now uncover the KO and with a green pen correct your work.

AIM:

You should be able to repeat the information by rote but with a good understanding

c. Playing with words and sentences

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. You now want to check how well you have learnt the information in your KO.
- iii. Definitions look at words that are used in this section. Can you write a definition in your own words?
- iv. Rephrasing can you rewrite the sentences or explanations in your own words?
- v. Summary can you summarise the main points of this section of the KO?
- vi. Synonyms can you write synonyms for key words and ideas?
- vii. New Sentences can you write a sentence that includes the key vocabulary or definitions that you have learnt?

AIM

You should be able to use the information in your KO in a flexible and confident way in your writing.

d. Think it, Link it

- i. This is a technique to use towards the end of the half term when you are revising all of the KO.
- ii. Think of the links or connections between different sections of your KO.
- iii. Write these out in your own words in your Homework Learning Journal.
- iv. Think about the links between a particular section of your KO and what you have learnt in your lessons. Can you expand on this section by linking it to your wider knowledge?
- v. Write this out in your Homework Learning Journal.

AIM

You should be able to link your homework and your lessons to show a confident understanding of the work covered.

Homework Learning Journal

- 1. Always write the subject and the date when you start your homework.
- 2. Always write the strategy that you are going to use for your homework.
- 3. Always use a ruler to underline titles and dates.
- 4. Use a blue or black pen to complete your homework or a pencil if you need to draw.
- 5. Use a green pen to complete corrections of your work.
- 6. You are expected to complete half a side of your Homework Learning Journal each evening as a minimum.

Checking:

Your tutor will check your Homework Learning Journal at least once a week. If they are concerned that you aren't doing your homework properly they will offer support and guidance. If you don't respond to this guidance you will be added to the afterschool 'Success club' where a member of staff will help you complete your homework.

DO NOW tasks:

At the start of every lesson you should expect a Do Now task. This is a low stakes retrieval quiz on what you have learnt so far. If you have completed your homework this should be easy. The aim is to get 100% in each of these. If you miss this target occasionally, don't worry. If it happens regularly your teacher will ask your tutor to have a chat and offer you support.

Maths:

Your teacher will set you tasks to complete on Dr Frost Maths. This will be set every week on a Monday and will be collected in and checked on a Friday. If this has not been completed you will be issued a Detention on a Wednesday Lunchtime.

How long should I spend on my homework?

	Key Stage 4				
	Week 1				
Time	Monday	Tuesday	Wednesday	Thursday	Friday
5 mins	MFL	MFL	Physical	MFL	MFL
10	Maths	English	Activity	Maths	English
10	Biology	RS		Chemistry	Physics
10	Option C	Option D		Option A	Option B
55	Reading /	Reading /		Reading /	Reading /
	Revision	Revision		Revision	Revision
	Week 2				
Time	Monday	Tuesday	Wednesday	Thursday	Friday
5 mins	MFL	MFL	Physical	MFL	MFL
10	Maths	English	Activity	Maths	English
10	Biology	RS		Chemistry	Physics
10	Option C	Option D		Option A	Option B
55	Reading /	Reading /		Reading /	Reading /
	Revision	Revision		Revision	Revision

- You should spend about 35 minutes revising your KO each day.
- You should spend 25 minutes either reading or revising each day.
- This timetable is a guide. If you want to spend longer revising one subject that you find more difficult and less time on one you find easy, that is your choice.
- We would like you to spend one evening involved in a physical activity. This might be a sports club, a run, a game of football with friends or just a nice walk with the dog. Ask your PE teacher if you need guidance with this. It doesn't have to be on a Wednesday.
- In the summer term you will complete end of year assessments. Your teacher will give you specific revision activities to complete to guide you in what you need to revise for these tests. This will include all of your KOs for the year but may include some additional resources.

Art Craft & Design GCSE Y10 Skulls

Keyword

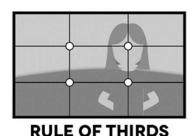


PHOTO BASICS ©



LEADING LINES

The road in this picture serves as a guide that lead your eyes to the subject of the photo

The photo is divided by nine boxes. The subject is in one of the intersecting lines, or the circles.



DEPTH OF FIELD

This is when the subject of the photo is completely

in focus and the background is blurry. This can be

controlled by aperture.

SHUTTER SPEED

& APERTURE

These figures are on your SLR camera screen. The higher the number (1/400), the faster the shutter speed. You are able to shoot faster subjects. As your aperture number gets lower (F2.8), more light is allowed into the lens. More light allows you to shoot in lower light situations.



FRAMING

This is when there are objects around the subject that frame the subject, making your eyes more drawn to it.



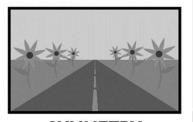
BALANCE

Placing your main subject off-centre, as with the rule of thirds, creates a more interesting photo. You should balance the "weight" of your subject by including another object of lesser importance to fill the space.



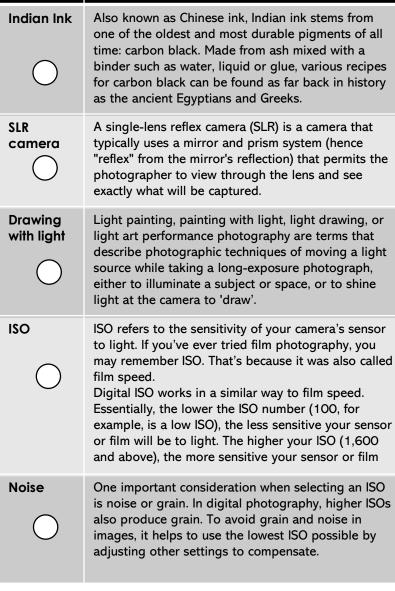
VIEW POINT

Before shooting your subject, think about where you will shoot it from. The viewpoint has a massive impact on the composition of a photo, and it can greatly affect the message that the shot conveys.



SYMMETRY

This is when the photo is equally balanced or has a pattern, creating symmetry within the photo. This can be very eye-catching, particularly in situations where they are not expected.



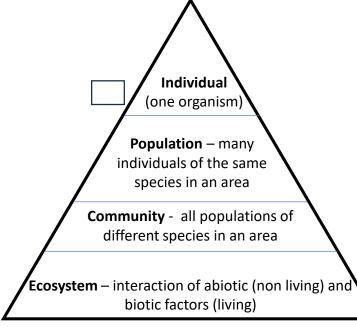
Read, cover, write, review

Biodiversity		
Keyword	Learn	✓
Biodiversity	The variety of all the different species of organisms in an ecosystem.	
Factors that reduce biodiversity	Destruction of peat bogs, destroying habitats, releasing carbon dioxide into atmosphere (global warming), pollution, deforestation	
Methods of maintaining and conserving biodiversity	Breeding programmes, protection and regeneration of habitats, keeping hedgerows in farmers' fields, reduction of deforestation and carbon dioxide emissions, recycling rather than using landfill	

Biotic and Abiotic Factors		
Keyword	Learn	✓
Biotic Factors	Availability of food, new predators, new pathogens, other species outcompeting each other.	
Abiotic Factors	Light intensity, temperature, moisture levels, oxygen levels, wind intensity, carbon dioxide levels, soil pH.	

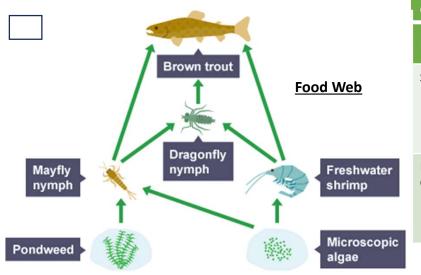
Keyword	Learn	✓
Habitat	The area in which an organism lives	
Competition	Plants compete for light, space, water and mineral ions. Animals compete for food, mates and territory.	
Interdependence	Within a community each species depends on other species for food, shelter, pollination etc	
Adaptations	A feature an organism has that allows it to survive in its ecosystem.	

Levels of Organisation in an Ecosystem

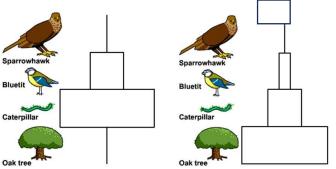


San	npling Techniques		
	Transect line	Random Sampling	✓
Use	To determine the distribution of species across an area	Used to count total number of organisms in an area	
Method	 Place a transect line using a 30m tape measure Place the quadrat at 0m and count organisms. Record distance and organism number in table Move quadrat to 5m and repeat, moving 5m each time Plot a graph to see pattern of results and distribution of species 	 Randomly place quadrat (to avoid bias) and count number of organisms. Repeat 10 times and calculate a mean. Work out area of field and area of quadrat. Calculate total organisms by multiplying mean by number of quadrats that could fit in field 	

Pollution		
Keyword	Learn	✓
Water Pollution	Sewage, fertiliser toxic chemicals	
Air Pollution	Smoke and acidic gases	
Land Pollution	Landfill and toxic chemicals	



Carbon Cycle		
Keyword	Learn	✓
Storing Carbon	Carbon is stored by Photosynthesis in plants and algae. Peat bogs and the oceans are excellent carbon stores.	
Releasing Carbon	Respiration (plants and animals), combustion (of fossil fuels), Decay and decomposition, destruction of peat bogs	



Pyramid of biomass

Pyramid of number

Caterpillar Oak tree	Caterpillar Oak tree	
Food Chains		
Keyword	Learn	✓
Producer	Photosynthetic organisms that	

producer	primary consumer	secondary consumer	tertiary consumer
	7-12	Sec.	328
grass -	→ grasshopper —	→ shrew —	→ owl

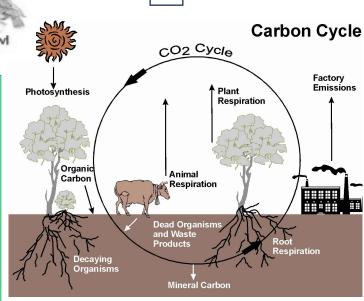
Food Chain

Decomposers are **bacteria and fungi**, which break down dead organisms in a process called decomposition or rotting.

They do this by releasing enzymes onto the dead matter and afterwards, consume the broken down substances.

Decomposers carry out **respiration** which releases heat, carbon dioxide and water. Therefore decomposers require oxygen.

They form a vital role in the recycling of matter. When organisms die and decompose plants absorb the broken down nutrients through their roots.



Carbon Cycle

roou Chains		
Keyword	Learn	✓
Producer	Photosynthetic organisms that use the energy from the sun to make their own food (glucose) and produce biomass. Form the base of a food chain.	
Consumer	An organism that eats another organism for food.	
Herbivore	An organism that eats producers. Normally a primary consumer.	
Trophic level	The position of an organism in a food chain, food web or pyramid.	
Food Chain	A sequence of feeding relationships between organisms	
Food Web	A network of food chains. Shows how food chains link together.	
Predator	An animal that hunts, kills and eats other animals for food.	
Prey	Organisms that predators kill for food	

GCSE BUSINESS

Marketing

Topic 3.5.4 The elements of the marketing mix: Promotion

	Methods of Promotion			
Method	Explanation	Examples	Advantages	Disadvantages
Advertising	There are a number of advertising methods a business can use.	 Television Newspapers Magazines Billboards Internet (online) Radio 	 Build customer awareness Promote the benefits of your products or services. Communicate information 	 Encourage people to buy products and services they don't really need. They may be misleading. Very costly (especially TV and radio advertising)
Public Relations (PR)	A business can use public relations to increase awareness of the business and its products. This is usually free media coverage such as for the opening of a new store or launch of a new product.	Common PR activities include having celebrities opening a new store and supporting a charity or community venture	 Cheap method of promotion Can create a positive image for the organisation 	No control over how message is conveyed
Sales Promotion	These strategies are used by a business to increase sales in the short term	 discounts buy one get one free competitions and coupons point of sales displays free gifts 	 Effective at achieving a quick boost to sales Encourages customers to trial a product or switch brands 	Sales effect may only be short-term Customers may come to expect or anticipate further promotions
Sponsorship	Businesses can increase the profile of the business by sponsoring sport events, sports teams or television programmes.	 Football shirts such as Emirates sponsoring Arsenal FC Barclays sponsor Premier League Football 	Increase brand awarenessTarget new market segments	Hard to measure effectiveness of method Can be costly
Social media	This allows communication with customers about new products or special offers and can be used to take customers to their website.	 Using social media platforms such as Facebook, Twitter, Instagram or TikTok with a company account to interact with customers 	 Easier to communicate directly with customers Very cheap / cost effective Can improve quality of customer service / customer engagement 	 Inaccurate or inappropriate responses can be shared quickly and easily. This will create bad publicity for the business.
Personal selling	A salesperson uses his or her skills and abilities in an attempt to make a sale	Perfume and cosmetic counters in department stores.	Customer Confidence in product from experienced knowledge Can gain feedback to pass on	Training Cost.Expensive cost per sale

otional mix	\sum
Competitor Actions	
Target market	
	service

Key term	
Promotional mix is a combination of methods including advertising, sales, public relations and direct marketing to achieve a specific marketing goal.	N. G. Carlotte

Reasons for promotion	
 Inform/remind customers about product Create/increase sales Create/change image of product Persuade customers to buy 	

GCSE BUSINESS

Marketing

Topic 3.5.4 The elements of the marketing mix: Place

	Definitions	
Key Term	Definition	\overline{A}
Producers	This is the maker of the product or service	
Wholesalers	These businesses buy products and sell them in smaller quantities to retailers	
Retailers	These are the shops that sell goods and service to the final customer	
Distribution channel	Method used to get product from producer to final consumer	
Indirect distribution channel	Involves intermediaries that perform a company's distribution functions	
Intermediaries	More commonly referred to as 'middle men' . Anyone used in the process between producer to consumer.	
Direct distribution channel	Where a company sells directly to the end consumer, usually through e-commerce	
E-commerce	A method of buying and selling goods and services online	

	Other Distribution Channels	
0	Mail order businesses do not have any stores, instead they send catalogues to customers who then place orders.	
0	Some businesses sell their products over the telephone. This is known as telesales . Customers can phone the business to place an order or the business can call potential customers to try and convince them to buy them.	
0	Some businesses sell their products on a website using e-commerce . Some sell via mobile devices, which is known as m-commerce .	

Main Distribution Channels	
Distribution channels can be set up in a number of ways:	
 ○ Producer → customer ○ Producer → wholesaler → customer ○ Producer → wholesaler → retailer → customer 	
Producer Retailer Consumer	
3 Producer Consumer	

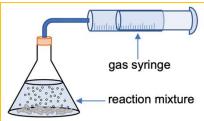
Multi-Chann	Multi-Channel Distribution Channels		
Definition	Advantages	Disadvantages	
Where a business uses more than one type of distribution channel. An example would be a high street retailer, such as Next, distributing in store, directly to customer using ecommerce and using catalogues sent via direct mail. Example of Multi-Channel Distribution: Apple Consumer Electronic Devices	 Allows more target market segments to be reached Customers increasingly expect products to be available via more than one channel 	 Potential for channel "conflict" –e.g. competing with retailers by also selling direct Can be complex to manage 	
450+ own retail stores in over 15 countries Online stores Partners	Enables higher revenues – e.g. if retail outlets have no stock, but customer can buy online	o Danger that pricing strategy becomes confused (in the eyes of customers)	

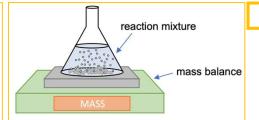
Topic 6a – the rate and extent of chemical change

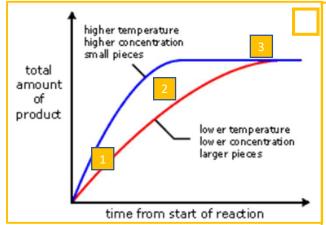
	Collision Theory	
Factor	Why does rate increase?	✓
Increase surface area : volume ratio of solids	Collisions occur at the surface so there are more frequent collisions between particles.	
Increase the concentration of solutions and pressure of gases	More particles in a given volume so there are more frequent collisions between particles.	
Increase the temperature	Particles have more energy so there are more frequent collisions <u>and</u> each collision is more likely to exceed activation energy.	
Use a catalyst	Provides an alternative pathway for a reaction requiring lower activation energy. Increases frequency of successful collisions.	

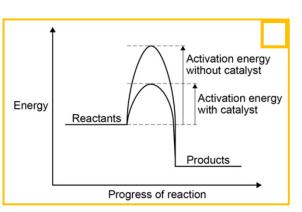
 $mean \ rate \ of \ reaction \ = \ \frac{quantity \ of \ reactant \ used}{time \ taken}$ $mean \ rate \ of \ reaction \ = \ \frac{quantity \ of \ product \ formed}{time \ taken}$

Product	How to measure
Gas collection	Use a gas syringe
Gas escapes to atmosphere	Measure decrease in mass using a balance
Precipitate formed	Time taken for cross to disappear









- 1) Rate is fastest at the start when the concentration of reactants is highest.
- 2) The rate slows down as reactants are converted into products. The concentration of reactants decreases.
- 3) The reaction has stopped once ONE of the reactants has been used up.

Measuring rate of reaction at specific times.

- 1) Draw a tangent to the curve at the required time on your line of best fit.
- 2) Make the tangent as large as possible
- 3) Calculate the gradient of the tangent using the formula: Gradient = change in y change in x
- 5) State units

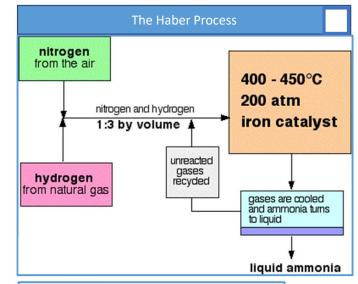
Topic 6b – the rate and extent of chemical change

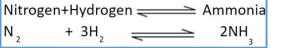
Key term	Definition	✓
Reversible reaction	In some chemical reactions, the products can react together to produce the original reactants. Shown by the symbol: ⇌	
Closed system	A system where no substances can enter or leave.	
Dynamic equilibrium	A system where both the forward and revers reactions are taking place at the same time and the same rate.	
Le Chatelier's principle	If a change is made to the conditions of a system at equilibrium, the position of equilibrium will move to oppose the change.	
Equilibrium position lies to the left	There are more reactants than products at equilibrium.	
Equilibrium position lies to the right	There are fewer reactants than products at equilibrium.	

If a reversible reaction is exothermic in one direction, it is endothermic in the opposite direction.

The same amount of energy is transferred in each case.

Changing the conditions of a reaction at equilibrium		
Condition	Effect	
Increase concentration of reactants	Position of equilibrium moves to the right: the concentration of reactants is reduced. Product yield increases.	
Decrease the concentration of reactants	Position of equilibrium moves to the left: the concentration of products is reduced. Product yield decreases.	
Increase pressure	Position of equilibrium moves to the side with fewer gas particles: pressure is reduced.	
Decrease pressure	Position of equilibrium moves to the side with more gas moles: pressure is increased.	
Increase temperature	The position of equilibrium moves to favour the endothermic reaction: heat energy is absorbed and decreases the temperature.	
Decrease temperature	The position of equilibrium moves to favour the exothermic reaction: heat energy is released and increases the temperature.	





Ammonia is made in the Haber process and is used to make nitrogen based fertilisers.

450°C is a <u>compromise</u> temperature: the forwards reaction is exothermic so a lower temperature favours the forwards reaction, but low temperatures make the rate of reaction too slow.

200 atm is a <u>compromise</u> pressure: there are fewer moles of products so a high pressure favours the forwards reaction, but high pressure requires expensive equipment and has a risk of explosion.

A catalyst does not change the position of equilibrium so the yield does not change: the rate of both reactions is increased by the same amount.

1.3.1 Networks & Topologies

Keyword	Definition	✓
Network	Where two or more computer devices are connected together.	
LAN	Local Area Network A computer network located within a small geographic area. The hardware is owned and maintained by the organisation that uses it.	
WAN	Wide Area Network Covers a large geographical area. The infrastructure is provided by a large telecommunications company.	
Transmission media	The medium the data is sent through.	
Bandwidth	How much data can be transferred over a network in a given time.	
Latency	How much time it takes for a packet of data to travel across the network.	
Client-server	A network where one computer (server) provides data and services for many other computers (clients).	
Peer-to-peer	A network where all of the computers have equal status.	
Switch	Hardware that allows devices to connect together to form a wired network in a LAN	
WAP	Hardware that connects Wi-Fi devices to a wired network.	
Router	Hardware that connects different networks together.	

1.4 Network Security

Keyword	Definition	١,
Malware	Any kind of malicious program that is installed on a computer system.	
Virus	Malware that, when executed, replicates itself by modifying other computer programs and inserting its own code into those programs.	
Worm	Malware that replicates itself in order to spread to other computers.	
Social engineering	Tricking or manipulating people into giving away critical information or access details.	
Brute force attacks	Use software to automatically try every possible combination of letters, numbers and characters until the correct password is found.	
Penetration testing	Attempting a controlled attack on a network to identify vulnerabilities	
Anti-malware software	Designed to detect and remove malware.	
Firewall	Designed to prevent unauthorised access to a network by inspecting and filtering incoming and outgoing data packets	
Two-factor authentication	2FA is an authentication process that requires two different authentication factors to establish identity.	
Biometrics	Using body measurements and calculations related to human characteristics.	
Encryption	Scrambling plain text data in such a way that it cannot be read by unauthorised people without a key.	
Network policy	A document that sets out the rules and procedures to help protect the network.	

GCSE Design Technology: TIMBER 7.7 part 4 Equipment and processes

Tick	Term	Definition
	KD fittings	Knock Down fittings. These are blocks and fittings that are easy to use and fix together pieces of a product. They are used in flat pack furniture to allow for easier transportation of goods.
	Ironmongery	The term used for a range of metal parts/components that can be bought to go onto products such as: Hooks Handles and knobs Locks Drawers runners
	Abrading	When a rough grit paper is used to sand away a material i.e. sandpaper.
	Wastage	When a material is cut away and becomes waste as it is no longer needed.

Screws and nails

Tick	Screw	Explanation/use			
	General screws	These create a strong, tight fit which can be unscrewed and dismantled if needed.			
	Pilot hole	These are drilled into timber prior to adding a screw. They are smaller than the screw being used to give the screw grip as it goes in.			
	Countersink hole	These are used for countersink screws. A countersink bit drills a 'v' shaped hole so that the screw sits flush to the surface of the wood.			
	Round wire nail	These have a large, flat head so they do not pull through thin materials.			
	Oval nail	Spread the grain less due to the shaping of the nail and so split the wood less when being hammered in.			
	Panel pins	These are small nails used for extra support and strength.			

GCSE Design Technology **revision**: CORE 1.04 Smart materials

Туре	Description	Uses/ applications
Shape memory alloys (SMAs)	Can be deformed but returns to its' original shape when heat or electricity is applied.	 Glass frames Tweezers and hooks Orthodontic wires
Nano- materials	Made of tiny components less than 100 nanometres (a millionth of a mm).	SunscreenCar bumpersMotorcycle helmets
Photochromic glass	Darkens when exposed to light and reverses in the dark.	Sunglasses Cockpit windows
Reactive glass	It changes from transparent to opaque when voltage is passed through.	Welding masks and gogglesWindowsToilets
Conductive inks	Used in a pen – contains pigments which allow a small current to pass through.	 Improvising or repairing circuit boards Drawing circuits on different materials
Temperature- responsive polymers	Changes colour when heat is applied to it.	 Baby products i.e. spoons, bath thermometers Kettles Biomedical applications
Piezoelectric materials	Generates a small electric charge when compressed.	 Sensors: burglar alarms, seatbelt sensors, keypads, keyless car entry Actuators: for precise position control i.e. digital cameras

GCSE Design Technology: TIMBER 7.8 Surface treatments and finishes

Tick Name Description **Advantages** Available in a range of colours **Paint** A coloured pigment in and different finishes. liquid that dries out. A coloured It makes a pale wood like Stain pine into a darker colour liquid that soaks into the wood to mimic a more surface. expensive wood like oak or mahogany You can still see the grain A clear coating Gives a hard wearing Varnish that dries to a finish Can be gloss or matt finish shine. Easy to apply Wax A soft solid that Gives a plain, natural look is rubbed onto Can leave an extremely the surface and soaks in. smooth finish Oil It is rubbed onto Good waterproofing for the surface and timber Vegetable oil on kitchen soaks in. ware is non toxic Shellac A cloudy liquid Traditionally used on expensive made from a furniture for its glossy lustre. resin secreted by a beetle. A thin layer of An expensive, decorative wood Veneer material (i.e. like mahogany can be put onto a cheaper wood line pine or wood, polymer) glued onto the chipboard. surface.

GCSE Design Technology **revision**: CORE 1.03 Energy sources

Source	How it is used	Advantages
Biomass	Organic matter such as wood and crops are burnt to produce heat or converted to electricity	Uses waste products
Biodiesel	Made from plants, vegetables and fermented waste cooking oil	 Uses waste products Does not give off harmful chemicals
Tidal	Turbines turned by tidal movement of water, generating electricity	No emissionsVery powerfulPredicable & stable
creates electricity through a		Freely availableCan be used in remote areasNo emissions
Solar	Photovoltaic cells convert sunlight into electricity	 Reliable source in warmer countries Can be small scale for homes More electricity in stronger sunshine
Hydro- electric	Dams are built to trap water, which turns turbines and generators	Large amount of low-cost powerCan be used as water reserve

Туре	How it is used	Advantages
Coal	The coal is burnt, this heats water, which creates steam, which is used to turn a turbine, which creates high voltage electricity.	Generates large-scale electricityCheap to extract and convertReliable
Oil	Oil is burnt to heat water into steam, which turns turbines to produce electricity.	 Generates large-scale electricity Relatively cheap to extract and convert
Gas	Gas is burnt, which powers turbines to then create electricity through a generator. Waste heat is also used to heat water, turning it into steam to then turn other turbines generate more electricity.	 Generates stable, large-scale and high-powered electricity Relatively cheap to extract and use as ready-made fuel Cleaner than oil or coal

Year 10 English Literature Paper 2

Exam Structure: 2 hours 15 minutes						
Topic	Topic Question form Marks					
Section A Modern Prose or Drama: An Inspector Calls.	Write one essay from a choice of two possible options, one exploring a character, one a theme. 40 min	30 marks for content (AO1-12, AO2-12, AO3-6). 4 marks for SPAG (AO4)				
Section B Poetry: The Power and Conflict Poetry collection	Write one essay comparing two poems from the collection. One poem will be set and printed on the page. You need to compare to the second poem from memory. 40 min	30 marks for content (AO1-12, AO2-12, AO3-6).				
Section C Unseen Poetry	Explore a given theme in an unseen poem. 35 min	24 marks for content (AO1-12, AO2-12).				
	Compare the methods used in the first unseen poem and a second unseen poem with a similar topic. 10 min	8 marks for comparison of methods (AO2)				

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			Assessment objectives	V	
<u> </u>	A01	Read, understand and respond to texts. Students should be able to: • Maintain a critical style and develop an informed personal response to the text. • Use textual references, including quotations, to support and illustrate interpretations			
	A02	Analyse the language, form and structure used by a writer to create meanings and effects, using relevant subject terminology.			
	A03	Show understanding of the relationships between texts and the contexts in which they were written.			
	A04	Use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation.			
	An Inspector Calls- context review				
	1912		The date the play is set. A time characterised by a rigid class system, based on the one that had emerged in the Victorian era. Power and wealth rested with the upper		

	Victorian era. Power and wealth rested with the upper classes, who were confident and complacent in their power. Priestley sets his play at this time to highlight problems of inequality and the need for change.	
WW1 and WW2	The world wars had helped break down barriers between classes. All classes had fought together and, following the wars, there was greater class mobility as people moved into roles left vacant by those who had died.	
Strikes and Trade unions	and drawn attention to the poor treatment of the working classes. By 1945, trade unions had more power to unite	

Context review – continued			Characters and quotes	lacksquare
From the early 1900s, the suffragette movement had helped highlight social inequality between the genders. Women gained the same voting rights as men in 1928 and, by 1945 even though society		Arthur Birling	Embodying the capitalist mindset, Arthur Birling is arrogant, selfish and unsympathetic towards the working classes. Priestley uses dramatic irony to highlight the foolishness and arrogance of his outdated views, as he confidently proclaims that the Titanic is "unsinkable, absolutely unsinkable" and that "I'm talking as a hard headed, practical man of business. And I say there isn't a chance of war".	
aware of and sympathetic to the rights of women in society.		neila rling	Sheila's sympathy for Eva, her remorse for her own actions and the way she sides with the Inspector urging her family to take responsibility, highlight the role the younger generation have to play in changing attitudes in society. "Urgently, cutting in: Mother, don't- please	
considered unsinkable; it can be seen as a symbol of the complacency of Britain's wealthy, industrial class.	_		Young, arrogant and foolish, described early on as "half-shy, half-assertive" Eric has to grow and mature, taking responsibility for his actions. His growth as a character demonstrates the way society can grow and improve.	
Encouraged a focus on business and the growth of individual wealth.			She is an example of the fixed attitudes of the established upper classes. Her rush to judge Eva and her belief that as a member of the upper classes she is automatically superior,	
Encouraged the idea that societies wealth should be used to benefit all members of society. Encouraged the idea of community and social responsibility.		Sybil B	highlights prejudicial attitudes in society: "As if a girl of that sort would ever refuse money!"	
of community and social responsibility.		erald oft	Gerald's exploitation of Eva highlights the inequality between the genders "I insisted on her moving into those rooms and I made her take some money". His initial remorse, followed by his attempts to explain away the Inspector's tale: "Everything's all right now Sheila" act	
were much more sympathetic to socialist views and ready to take on the play's message. A labour government were on the verge of taking power, promising reforms to social equality. The welfare	<u>-</u>	Eva Smith/ Go Daisy Cr Renton	Represents the working classes, as suggested by the generic name "Eva Smith". Her lack of voice in the play highlight the lack of power over their own lives women and the working classes held. The name Daisy Renton highlights her innocence and purity (Daisy) and how she treated like a commodity by society (Renton).	
state had just been set up, providing support to those living in poverty. The NHS was soon to be set up, making free health care available to all.		Goole	Priestley's mouthpiece. He embodies socialist views and the inescapable lessons of history. "We are members of one body. We are responsible for each other. And I tell you that the time will soon come when if men will not learn that lesson, then they will be taught it in fire and blood and anguish".	
A committed socialist and advocate for social reform. He served in World War 1		Edna	Another example of the working class. Her subservient role and lack of dialogue highlights how the lower classes had little say in the world of 1912 Britain.	
and later became a broadcaster for the BBC. He wrote An Inspector Calls to encourage a shift towards socialism and greater class equality.		Setting	The setting of the Birling household represents the world of 1912 Britain. This microcosm of society is dominated by the wealth and self-satisfaction of the upper classes, until the Inspector (socialism) arrives to shatter their complacency.	
	From the early 1900s, the suffragette movement had helped highlight social inequality between the genders. Women gained the same voting rights as men in 1928 and, by 1945 even though society still favoured men, people were more aware of and sympathetic to the rights of women in society. The titanic sunk in 1912. A luxury liner considered unsinkable; it can be seen as a symbol of the complacency of Britain's wealthy, industrial class. Encouraged a focus on business and the growth of individual wealth. Encouraged the idea that societies wealth should be used to benefit all members of society. Encouraged the idea of community and social responsibility. When Priestley wrote the play. People were much more sympathetic to socialist views and ready to take on the play's message. A labour government were on the verge of taking power, promising reforms to social equality. The welfare state had just been set up, providing support to those living in poverty. 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Food Provenance- Food Processing and Production

Where food comes from

No matter where it is bought from, food is grown, reared or caught, then processed in some way, to make it edible and safe to eat.

Food processing

Food processing is classified into two types, PRIMARY and SECONDARY.

Examples of Primary are Milling wheat into

Heat treating (Pasteurising, sterilising and Ultra Heat Treating (UHT) Milk.

Extracting oil from crops such as maize for corn oil, rape for rapeseed oil, Olives for Olive Oil. Peeling, stoning and slicing fruit for canning or

Examples of secondary processing are making wheat into bread, pasta, biscuits and other flourbased products.

Making Milk into cheese, butter and yoghurt etc

- · Primary processing of milk- Milk is mainly water it is an emulsion and has tiny drops of fat suspended in it. The cream (Fat) is dispersed in milk under pressure by a process known as HOMOGENISATION.
- Milk can be pasteurised-heated to 72 Degrees for 15-25 seconds and cooled quickly to below 6 Degrees.
- Sterilised- Heated to 113-130 degrees for 10-30 minutes and cooled quickly.
- Ultra Heat Treated (UHT) Heated to 135 Degrees for 1 second put into sterile sealed containers
- . Milk can be Whole Milk where no cream is removed and is 3.5 per cent fat.
- · Semi Skimmed where some cream is removed and is 1.7 per cent fat.
- Skimmed has a fat content of 0-0.5 Percent and contains slightly more calcium than whole milk but is not recommended for children under 5.
- · Channel Island Milk has a higher fat content than UK mainland milk so is higher in fat, and therefore higher in fat soluble vitamins.
- · ORGANIC Milk comes from cows that have grazed in fields where no fertilisers etc have been used and comes in the same varieties as above.

Food Manufacturing

Modern processing has developed over the centuries, with canning and pasteurisation advancing the microbiological safety of food. Food processing can be very simple, e.g. preparing, freezing or drying food to preserve nutrients and freshness. It can also be complex, e.g. formulating a frozen meal with the right balance of nutrients and ingredients.

There are two main stages to food processing:

- primary foods are processed after harvest or slaughter, e.g. wheat is harvested and then milled into flour:
- secondary food is made into products, e.g. flour into bread or pasta. Steps need to be taken at all stages of food supply to prevent contamination and spoilage and avoid food wastage.

Flour can be wholemeal where an extraction rate of 100% means nothing has been taken away from the whole wheat germ.

Brown flour where 10-15% of the wheat germ is removed.

White Flour an extraction rate where 70-75% of the wheat germ has been removed, In the UK white flour is fortified by law with Iron, Calcium, Thiamine and Niacin.

Flours can be., STRONG with a higher Gluten content - used for bread making.

Soft (PLAIN) Flour used for pastry. SELF RAISING this has a chemical raising agent (Baking Powder) added to it used for sponge cakes etc GLUTEN FREE made from rice flour. etc for people who have COELIAC DISEASE

Functional foods

Functional ingredients are ingredients that are specifically included in food for additional health benefits, including pre- and pro- biotics. Plant Sterols and Stanols. Phytochemicals and other antioxidants

Food additives

Additives are used to ensure safety, increase shelf life or improve the taste. texture or appearance of food. Additives need to be approved before they can be used.

Additives are given an 'E number' to show that they have been rigorously tested for safety and have been approved for use in food by the European Commission.

Jams contain several kinds of additives. including emulsifiers and gelling agents.



Pasteurisation, sterilisation

The shelf life of food can be extended if sufficient heat is applied to kill microorganisms and inactivate the enzymes that are present. Pasteurisation - extends shelf life

by killing most food spoilage organisms and pathogenic organisms. Products are treated with mild heat, usually to less than 100°C for 30-35 minutes.

Sterilisation - is a more severe process that destroys all microorganisms.

Canning - aims to destroy all

Cold Methods

Refrigerating

microorganisms and their spores

through the application of heat by

sterilising food in airtight containers.

Packaging

Key terms

appearance of food.

Due to advances in technology, most food items are now sold pre-packed.

Additives: Are added to ensure safety, increase

E numbers: Given to an additive to show it has

Food processing: Any deliberate change in a

Packaging: Used to protect the food or drink

from physical damage, chemical or bacterial

Pathogenic: Disease causing microorganisms.

contamination and provide information.

food that happens before it is available for us to

Food labels: Provide information and help

shelf life or improve the taste, texture of

been approved for use in the EU.

consumers make choices.

Food products often have a long journey from the initial manufacturer, until finally being eaten by the consumer. The aim of packaging includes:

- preventing physical damage, e.g. from knocking, shaking or crushing:
- preventing contamination from microorganisms, pollution or vermin;
- protecting against dehydration or dampness;
- protecting the product's nutritional and sensory characteristics:
- keeping the product in peak condition;
- helping to increase a product's shelf life.

Packaging is also designed to be visually stimulating and provide information about the product.

Food labelling

Manufacturers include a range of information on food labels. Some of which is legally required and some of which is useful to the consumer or supermarket. Best-before and use-by dates are examples of information that is legally required.

Freezing & dehydrating

The shelf life of food and drink can be extended by freezing and dehydrating. Freezing - commercial methods are based on two principles:

- 1. very low temperatures inhibit growth of microorganisms:
- 2. the formation of ice crystals draws available water from the food.

Dehydration - reduces the water activity level, weight, bulk of the food, and helps to preserve a product. There are a number of techniques used including; sun drying, spray drying, fluidised bed drying, roller drying and accelerated freeze-drying.



Vacuum Packing- Air is removed from and the package sealed to prevent bacteria growing.

Freezing Chilling Blast Chilling Cook-Chill Cook Freeze Chemical Preservation- Smoking

i.e. Fish-Kippers, Bacon etc

Using Acids- Pickling, onions, aherkins etc

Salting- Ham, Bacon, Fish (salt cod) Sugar, in Jams, Marmalades, candied and crystallised fruit. MAP- Modified Atmosphere Packaging and CAP Controlled Atmosphere Packaging- these involve changing the atmosphere around the food inside packaging, i.e. remove oxygen and replace with Nitrogen.- Crisps, cereals etc.

ADDITIVES can be- Natural i.e. beetroot juice for colour. Nature Identical-(Synthetic) made in labs i.e. Vanillin a man made vanilla. Artificial- Synthetic compounds that do not occur in nature i.e. Sweeteners.

PreservativesTo increase Shelf life

Antioxidants to stop fats going rancid.

Colourings To replace colour lost in processing

Flavourings and Flavour Enhancers to replace flavour lost in processing Sweeteners used in used in place of sugar to lower calories, i.e. Coke Zero **Bulk Sweeteners**

Emulsifiers To hold oil and water together i.e. spreads like Flora Stabilisers As above

Thickeners used to modify starches and thicken foods like sauces and gravies in ready meals

Gelling Agents- Setting meats and Jellies.

FRENCH

Past tense Essentials		
C'était	It was	
II y avait	There was	
	there were	
J'ai fait	I did/made	
J'ai eu	Ihad	
J'ai joué	I played	
J'ai voyagé	I travelled	
J'ai travaillé	I worked	
J'ai étudié	I studied	
J'ai mangé	Late	
J'ai bu	I drank	
J'ai pris	Itook	
J'ai vu	Isaw	
Je suis allé	Iwent	
Je suis sorti	I went out	

Present tense Essentials		
C'est	It is	
llya	There is/ there are	
Je fais	I do/I make	
J'ai	Ihave	
Je joue	I play	
Je voyage	I travel	
Je travaille	I work	
J'étudie	I study	
Je mange	I eat	
Je bois	I drink	
Je prends	I take	
Je vois	I see	
Je vais	Igo	
Je sors	I go out	

Near future essentials		
Ça va être	It is going to be	
Il y aura	There will be	
Je vais faire	I am going to do	
Je vais avoir	I am going to have	
Je vais jouer	I am going to play	
Je vais voyager	Je vais voyager I am going to travel	
Je vais travailler I am going to work		
Je vais étudier	I am going to study	
Je vais manger	I am going to eat	
Je vais boire I am going to drink		
Je vais prendre	I am going to take	
Je vais voir	I am going to see	
Je vais aller	I am going to go	
Je vais sortir	I am going to go out	

Simple Future essentials	
Ce sera	It will be
II y aura	There will be
Je ferai	I will do
J'aurai	I will have
Je jouerai	I will play
Je voyagerai	I will travel
Je travaillerai	I will work
Je mangerai	I will eat
Je boirai	I will drink
J'étudierai	I will study
J'irai	I will go
Je sortirai	I will go out
Je pourrai	I will be able to
Je serai	I will be

Weather in the past tense		
Il faisait beau It was nice		
Il faisait mauvais It was bad weather		
Il y avait du soleil It was sunny		
Il pleuvait	It was raining	

Weather in the present tense		
Il fait beau It is nice		
Il fait mauvais It is bad weather		
Il y a du soleil	il It is sunny	
Il pleut It is raining		

Past tense opinions		
Je ľai trouvé	I found it	
Je me suis bien amusé	I had fun	
Nous nous sommes	We had fun	
bien amusés		
Ce que j'ai aimé le plus	What I liked the	
était	most was	
Je n'ai pas aimé	I didn't like	

Past Tense Time phrases		
Hier	Yesterday	
L'année dernière Last year		
Récemment	Recently	
Le week-end dernier	Last weekend	
	-	

Conditional essentials		
Ce serait	It would be	
Il y aurait	There would be	
Je ferais	I would do	
Je serais	I would be	
J'aurais	I would have	
Je voyagerais	I would travel	
Je travaillerais	I would work	
J'irais	I would go	
Je sortirais	I would go out	
je voudrais/j'aimerais	I would like	
je n'aimerais pas	I wouldn't like	

Future Time phrases	
Demain	Tomorrow
L'année prochaine	Next year
A l'avenir	In the future
Le week-end prochain	Next weekend

Question words		
Où?	Where?	
Quand?	When?	
Comment?	Hows	
Pourquoi?	Why?	
Combien?	How much?	
Est-ce que?	Is it?	
Qu'est-ce que?	What is it?	
Quoi?	What?	
Quel/quelle	What?	

Notre monde est beau	
le monde	the world
bien connu	well-known
un pays	a country
le paysage	the landscape
plein de*	full of/plenty of
У	there
inclus	including
en hiver/au printemps	in winter/in spring
en été/en automne	in summer/in autumn
également	equally/also
de tout	everything
nombreux/nombreuse	many/numerous
toute l'année	all year round
haut/bas	high/low

Superlatives – the most	
Le meilleur/le mieux The best	
Le/la pire	The worst
Le/la plus The most	
Le/la moins	The least
Eg le plus petit	The smallest

Comparatives		
Meilleur que/mieux que Better than		
Pire que Worse than		
plusque Morethan		
Moinsque	Lessthan	
Aussique Asas		

Pros and Cons		
Un avantage	An advantage	
Un désavantage	A disadvantage	
Un pour/un contre	A for/ an against	
D'un côté	On the one hand	
D'un autre côté	On the other hand	
Au contraire	On the contrary	
Toutefois	However	
Tandis que	Whereas	
Selon mes parents	According to my parents	

Intensifiers		
vraiment	really	
assez	quite	
très	very	
un peu	a bit	
trop	too	
complètement	completely	

<u>Connectives</u>		
étant donné que	given that	
vu que	seeing that	
puisque	as/since	
comme	like/as	
car/parce que	because	
bien que	although	
cependant	however	
Malheureusement	unfortunately	
heureusement	fortunately	

Superlatives - examples		
La plus longue	The longest	
rivière	river	
La plus haute	The highest	
montagne	mountain	
Le plus long	The longest	
match	match	

Avoir raison	To be right	
Avoir tort	To be wrong	

l	Presnt Tense Time phrases		
1	Normalement	Normally	
ļ	Actuellement	At the moment	
ł	Aujourd'hui	Today	
ł	En général	Generally	
1	D'habitude Usually		

Opinion structures	
a mon avis	In my opinion
je pense que	I think that
je dirais que	I would say that
je crois que	I believe that
j'imagine que	I imagine that
mes parents pensent que	my parents think that
personellement	personally
je le/la/les trouve	I find it/them
mes amis disent que	my friends say that
il me semble que	it seems to me that
j'apprécie	I appreciate

Simple opinions		
c'est bruyant	It's noisy	
c'est calme	It's quiet	
c'est joli	It's pretty	
c'est sale	It's dirty	
c'est tranquille	It's quiet	
c'est formidable	It's great	
c'est affreux	It's awful	
c'est délicieux	It's delicious	
c'est ennuyeux	It's boring	
c'est inoubliable	It's	
	unforgettable	

Negatives	
nepas	not any
nejamais	never
nerien	nothing
neque	only
neaucun	not any, none
nepersonne	no-one
nenini	neithernor
neplus not any more	

Half-term 5

Year 10 FRENCH

GCSE GEOGRAPHY

Geographical Investigation - Coasts

Stages of fieldwork enquiry

- 1 Identifying suitable fieldwork questions and enquiry processes.
- 2 Understanding fieldwork techniques and measurement methods.
- 3 Processing and presenting data using maps, GIS, and graphs.
- 4 Analysing field data with case studies and theories.
- 5 Drawing conclusions from fieldwork data.
- 6 Critically reflecting on data, methods, and conclusions.

Fieldwork enquiry question: How effective are the groynes at Hengistbury Head in managing longshore drift?

Hypothesis and aims:

It is predicted that the groynes at Hengistbury Head will be effective in preventing longshore drift. The aim of the investigation is to discover how effective the groynes are at preventing the process of longshore drift.

Reason location is suitable for physical enquiry:

The location was chosen as Hengistbury Head beach is on a stretch of coastline that is affected by the process of longshore drift. As a result of this process the local council has installed the hard engineering method of groynes. The area is also easily accessible by coach from our school.

Method 1: Beach profile

Sampling method: systematic sampling (fixed intervals)

Sample size: 3 sites (between pier and groyne, between two groynes and away from the groynes).

Description: Person A stands by the sea holding a ranging pole and person B holds a second ranging pole 5m up the beach. The angle between matching markers on each ranging pole is measured using a clinometer. Repeat this process every 5m up the beach.

Strengths

- -The method of data collection is simple to carry out.
- -Systematic sampling is simple and has good coverage of the study area.

Weaknesses

- -There may be some user error when taking readings with a clinometer.
- -Ranging poles need to be held straight and prevented from sinking into the sediment, otherwise an inaccurate measurement will be taken.

Method 2: Exposed height of groynes

Sampling method: systematic sampling (fixed intervals)

Sample size: 10 groynes

Description: identify the updrift and downdrift using a compass. Use the meter ruler to measure from the top of the groyne to the surface of the sediment on each side. Repeat for each groyne.

Strengths

- -The method clearly shows whether the groynes are working.
- -The method of data collection is simple to carry out and does not need special equipment.
- A large enough sample size was used (most of the groynes were measured), in order to reach a reliable conclusion.

Weaknesses

- -Measurements were not taken at the same point along each groyne and several were not taken along each side.
- Care should be taken to ensure that meter ruler is held straight and does not sink into the sandotherwise an inaccurate reading could be taken.

Sampling types

Random sampling

- © Results can be generalised for a population. It is more time efficient than asking the entire population. Reduced bias.
- Expensive. Time consuming. Not always possible if there is no sampling frame or list to sample from.

Stratified sampling

- © Sample is representative of the population so the results can be generalised. It is more time efficient than asking the entire population. Minorities given fair representation.
- Requires another sampling method to select individual items of data from a list (random / systematic etc.).

Systematic sampling

- © It is more time efficient than asking the entire population. Easy to implement (regular intervals).
- Every member of the population must be listed. The first member of the population must be chosen at random to avoid bias.

Secondary Data

Secondary Data is information that you did not collect yourself.

Examples include: Books, Newspaper Articles and Government statistics. For Coastal Fieldwork we will be looking at Geology Maps and Shoreline Management Plans.

Revising the Past Tense		
ich habe/er hat gewohnt	I/he lived	
ich bin/er ist gegangen	II/he went	
ich habe/er hat gemacht	I/he did	
ich habe/er hat gespielt	I/he played	
ich habe/er hat gegessen	I/he ate	
ich habe/er hat getrunken	I/he drank	
ich bin/er ist gefahren	l/he travelled	
ich habe/er hat gelesen	I/he read	
ich habe/er hat (fern)gesehen	I/he watched (tv)	
ich habe/er hat besucht	I/he visited	
ich habe/er hat gekauft	I/he bought	
ich habe/er hat getroffen	I/he met	
ich war/es war	l/it was	
es gab	there was/were	
ich/er hatte	I/he had	

Revising the Present Tense		
ich wohne/er wohnt	I/he live(s)	
ich gehe/er geht	I/he go(es)	
ich mache/er macht	I/he do(es)	
ich spiele/er spielt	I/he play(s)	
ich esse/er isst	I/he eat(s)	
ich trinke/er trinkt	I/he drink(s)	
ich fahre/er fährt	I/he travel(s)	
ich lese/er liest	I/he read(s)	
ich sehe/er sieht (fern)	I/he watch(es) (tv)	
ich besuche/er besucht	I/he visit(s)	
ich kaufe/er kauft	I/he buy(s)	
ich treffe/er trifft	I/he meet(s)	
ich bin/es ist	I am/it is	
es gibt	there is/are	
ich habe/er hat	I have/he has	

Revising the Future Tense		
ich werde/er wird wohnen	I will/he will live	
ich werde/er wird gehen	I will/he will go	
ich werde/er wird machen	I will/he will do	
ich werde/er wird spielen	I will/he will play	
ich werde/er wird essen	I will/he will eat	
ich werde/er wird trinken	I will/he will drink	
ich werde/er wird fahren	I will/he will travel	
ich werde/er wird lesen	I will/he will read	
ich werde/er wird (fern)sehen	I will/he will watch (tv)	
ich werde/er wird besuchen	I will/he will visit	
ich werde/er wird kaufen	I will/he will buy	
ich werde/er wird treffen	I will/he will meet	
ich werde/es wird sein	I/it will be	
es wird geben	there will be	
ich werde/er wird haben	I will/he will have	

Bournemouth School – Knowledge Organiser – Year 10

GERMAN

Weather							
es ist / es war it is / it was							
es wird / würde sein	it will / would be						
sonnig/wolkig/ heiß/kalt/ stürmisch es regnet / es schneit	sunny/cloudy /hot/cold/ stormy it is raining/ snowing						
es hat geregnet/ geschneit	it was raining / snowing						
es wird regnen/ schneien	it will rain/snow						
es würde regnen/ schneien	it would rain/snow						

	Useful complex structures						
Mein Brud heißt	ler/Freund, der	My brother/friend who is called					
Meine Sch die heiß	wester/ Freundin, St	My sister/friend who is called					
Mein Haus	stier, das heißt	My pet, which is called					
	k / in die Schule / nach Berlin <u>, wo</u>	to the park/school/ the cinema/Berlin, where					
Wenn ich hätte, wür	viel Zeit/Geld de ich	If I had lots of time/money, I would					
Wenn ich ich	reich wäre, würde	If I was rich, I would					
um zu (infinitive)	in order to					
Ich habe v	or, zu (inf)	I intend to					

Revising the Conditional Tense							
ich/er würde wohnen/besuchen	I/he would live/visit						
ich/er würde gehen/fahren	I/he would go/travel						
ich/er würde machen/spielen	I/he would do/play						
ich/er würde essen/trinken	I/he would eat/drink						
ich/er würde lesen/(fern)sehen	l/he would read/watch (tv)						
ich/er würde kaufen/treffen	I/he would buy/meet						
ich/es wäre	l/it would be						
es würde geben	there would be						
ich hätte/er hätte	I/he would have						

Half Term 5

Reiseziele – travel destinations					
ich reise	I travel	7			
ich fahre	I go/travel				
nach Deutschland	to Germany				
nach Österreich	to Austria				
in die Schweiz	to Switzerland	1			
nach Frankreich	to France				
nach Italien/Spanien	to Italy/Spain	٦			
nach Amerika/ in die USA	to America/ the USA				
nach Asien/Afrika	to Asia/Africa				
nach Australien	to Australia				
ins Ausland	abroad	1			
der Berg/der Wald	mountain/forest				
die Burg/das Schloss	castle				

im Urlaub und unterwegs – during the holidays and on the way						
es ist it is						
alt /historisch	old /historic					
bekannt/berühmt	well-known/famous					
beliebt /schön	popular/beautiful					
eindrucksvoll	Impressive					
hoch/lang	high/long					
riesig	huge, great					
spannend	exciting, tense					
traditionell	traditional					
unglaublich	incredible					
wunderbar	wonderful					
günstig	cheap, good					
interessant / langweilig	interesting / boring					

Vor- und Nachteile – Adv	antages and disadvantag	es	Opinions in dif	
Was denkst du?	What do you think?		Ich finde/fand	
Ich denke, dass		Ich denke/dachte		
Du hast gesagt. dass		Ich glaube/glaubte		
Auf der einen Seite	On the one hand		Es macht Spaß	
Auf der anderen Seite	On the other hand		Es gefällt mir (nicht).	
Du hast Recht!	You're right!		Es gefiel mir (nicht)/Es	
Das stimmt!	That's right!		hat mir (nicht) gefallen.	
Genau! / Richtig!	Exactly! / Correct!		Es wird/würde mir gefallen.	
Ein Vorteil/Nachteil davon ist	An advantage/ disadvantage of it is		Ich mag (noun) (nicht)	
Meiner Meinung nach ist das In my opinion thatit is			Ich mochte (noun) Ich werde/würde	
Ich finde das	I find that/it		(noun) mögen	
eine gute/schlechte Idee	a good/bad idea		Ich (verb) gern	
einen guten/schlechten Vorschlag	a good/bad suggestion		Ich (verb) lieber	
weil/da man kann	because/since you can		Ich (verb) am liebsten	
leckeres Essen probieren	try delicious food		Früher mochte ich (noun), aber jetzt mag	
(nicht) (Tennis) spielen	(not) play (tennis)		ich lieber (noun)	
in den Seen schwimmen	in den Seen schwimmen swim in lakes		Es interessiert mich	
in den Bergen wandern	hike in the mountains		Es hat mich	
am Strand liegen	lie on the beach		interessiert.	
klettern	climb		Es ist/war mir egal.	

Intensifiers

really

quite

a bit

very/really

rather/too

particularly

completely

extremely

actually

wirklich

sehr/echt

eher/zu

ziemlich/ganz

ein bisschen

besonders

total/völlig

tatsächlich

äußerst

Negatives						
nicht (verb)	not					
kein (noun)	no/not any					
nichts	nothing					
kaum	hardly					
nie	never					
niemand	no-one					
wedernoch	neithernor					
nicht mehr	not any					
mont mem	more					

Connectives, Adverbs					
denn	because				
weil/da (VTE)	because				
obwohl ((VTE)	although				
jedoch (V2)	however				
zudem/außerdem	besides				
trotzdem (V2)	however				
leider	sadly				
glücklicherweise	fortunately				
also/deshalb	therefore/so				

care.

Opinions in different tenses

I find/found

It is fun

I think/thought

I like/don't it.

I believe/believed

I liked/didn't like

I will/would like

I like/don't like

I will/would like

I liked

to

I like to ...

I prefer to ... Most of all I like

I used to like ...

but now I prefer

It interests me

It interested me

I don't/didn't

	Negatives					
	nicht (verb) not					
4	kein (noun)	no/not any				
4	nichts	nothing				
4	kaum	hardly				
4	nie	never				
	niemand	no-one				
4	wedernoch neithernor					
	nicht mehr	not any more				

lm Urlaub und unterwegs – during the holidays and on the way				
es ist	it is			
alt /historisch	old /historic			
bekannt/berühmt	well-known/famous			
beliebt /schön	popular/beautiful			
eindrucksvoll	Impressive			
hoch/lang	high/long			
riesig	huge, great			
spannend	exciting, tense			
traditionell	traditional			
unglaublich	incredible			
wunderbar	wonderful			
günstig	cheap, good			
interessant /	interesting / horing			

Oceanarium Brief - Summer term

- •AO1: Develop ideas through investigations, demonstrating critical understanding of sources.
- •AO2: Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes.
- •AO3: Record ideas, observations and insights relevant to intentions as work progresses.
- •AO4: Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.

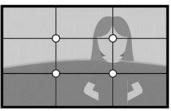


PHOTO BASICS TO



LEADING LINES

The road in this picture serves as a guide that

lead your eyes to the subject of the photo

RULE OF THIRDS

The photo is divided by nine boxes. The subject is in one of the intersecting lines, or the circles.



DEPTH OF FIELD

This is when the subject of the photo is completely in focus and the background is blurry.

This can be controlled by aperture.



SHUTTER SPEED & APERTURE

These figures are on your SLR camera screen. The higher the number (1/400), the faster the shutter speed. You are able to shoot faster subjects. As your aperture number gets lower (F2.8), more light is allowed into the lens. More light allows you to shoot in lower light situations.



FRAMING

This is when there are objects around the subject that frame the subject, making your eyes more drawn to it.



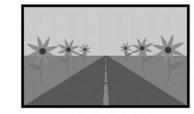
BALANCE

Placing your main subject off-centre, as with the rule of thirds, creates a more interesting photo. You should balance the "weight" of your subject by including another object of lesser importance to fill the space.



VIEW POINT

Before shooting your subject, think about where you will shoot it from. The viewpoint has a massive impact on the composition of a photo, and it can greatly affect the message that the shot conveys.



SYMMETRY

This is when the photo is equally balanced or has a pattern, creating symmetry within the photo. This can be very eye-catching, particularly in situations where they are not expected.

Keyword	Definition - look cover write review
Kerning	Kerning refers to the space between two specific letters (or other characters: numbers, punctuation, etc.) and the process of adjusting that space improves legibility.
Tracking	Tracking is similar to kerning in that it refers to the spacing between letters or characters. However, instead of focusing on the spacing between individual letters (kerning), tracking measures space between groups of letters .
Bold	Bold colours or text stand out in a design. They are often bright or contrasting colours. Bold text has a thicker weight.
Font weight	The font-weight specifies the weight, or thickness, of a font. A heavier weight is often used to aid with hierarchy in a design.
Alignment	Depending on the desired visual outcome, text can be either left, center or right aligned in a design. This refers to which margins the paragraph is aligned to.
Justified text	Justified text is text aligned to both the left and right margins, creating straight edges on both sides of the text block. This is achieved by adjusting spacing between words and letters
Script	Script typefaces are fonts or type based upon historical or modern handwriting styles and are more fluid than traditional typefaces.
Slab serif	Slab serif fonts feature a geometric feel compared to traditional serif fonts and feature serifs that are square and larger, bolder.
Sans serif	A serif is the little extra stroke or curves, at the ends of letters.
Sans	"Sans" literally means "without", and a sans serif font does not include any extra stroke at the ends of the letters.



Bournemouth School: History Department: KO Year 10: Summer 1: Elizabethan Society 3: 1558 - 1588

	1. Society & Leisure	✓		2. Edu	cation		✓	3. Why	did Poverty increase?	✓
Key Terms	Definitions		Key Terms	De	efinitions			Key Terms	Definitions	
Bear-baiting	Bears chained to posts for dogs to attack		Apprentice	Education	n for children lea	arning a trade		Alms	Term to describe help to the poor] '
Feast Days	Opportunities for dancing & drinking		Grammar Schools		hools for sons			Cloth trade	Woollen cloth was most significant	ין ו
'Fourth Sort'	Harrison's description of the lowest ranks		Humanists	New influ	ences: philosop	hers studied		Debasement	New coins containing less gold] '
Gambling	Money bet on the outcome of sports		Nobility	Educate	d their childre	n at home		Dissolution	Monasteries closed down by HVIII] '
Harrison's book	Describing the four classes in society		Petty Schools	For boys	aged 4-8. Paid	for by parents		Enclosure	Enclosing land with hedges	1 '
Hunting	Enjoyed by all: deer, hawking, rabbits		Protestant	Promoted	l literacy to acce	ess Bible		Inflation	Prices rising faster than wages	1 '
Music	Enjoyed by all: madrigals, ballads, in-house		Rhetoric	University	:Public speakir	ng / persuasion		Recession	Slower trade = unemployment	1 '
Mystery plays	Popular at start of her reign, then secular		School for girls	Dame Sc	hools: Private to	utors for rich		Rent-racking	Increased rents badly hitting farmers	1 '
Storytelling	Popular with all ranks in society		Social order	Educatio	n designed to	reinforce it		Sir Thomas Smith	Wrote pamphlets criticising enclosures	<u>.</u> '
Theatre	Popular pass-time enjoyed by all ranks		Virgil & Cicero		authors taught			Vagabondage	Homeless and jobless: a concern	_
4. Attitudes to F		√	5. Why did the	Elizabeth	ans explore a	broad?	√	6. Frances Drai	ke's circumnavigation	1
Key Terms	Definitions		Key Terms	D	efinitions			Key terms	Definitions	
Able-bodied	Or 'idle poor': those fit but not in work		Astrolabe	Used to	measure latitu	de&longitude		Cacafuego	Spanish treasure ship raided	1 '
Categories for	Angler, counterfeit-crank, clapper		Colony		ntrolled and occu			'Elizabeth'	One of Drake's ship lost	1 '
vagrants	dudgeon, Doxy			Heathens converted Elizabethans spreading Protestantism			Golden Hind	Drake's ship (formerly 'Pelican')	1 '	
Impotent poor	Or 'deserving poor'. Caused by Illness/old age		Lucrative trading Ventures creating substantial wealth			'Marigold'	Captained by J Thomas: sank	1 '		
Ipswich	A town ahead of its time for managing the poor		Piracy Plundering enemy ships at sea			Mocha	Drake landed and was attacked	1 '		
Poor Relief Act	Designed to distinguish the able & impotent poor		Renaissance Enlightened thinking encouraging exploration			Mutiny	Dougherty charged and executed	1		
Statute of	Aimed to ensure the collection of poor		Richard Hakluyt Author urging sailors to explore more			Nova Albion	'New England': California claimed] '		
Artificers	relief		, , , , , , , , , , , , , , , , , , , ,			Ternate	Traded with the king here for spices] !		
Thomas Harman:	Wrote pamphlets on types of vagabonds		Voyages longer				Tierra del Fuego	Islands at bottom of S. America] '	
Vagabonds Act	Turning point: Aimed to deter vagrancy		Trade routes					Valparaiso	Settlement attacked by Drake	'
7 \A/b\A/e/	to Delaigh significant and why did	1			India and New	world profits	1	O Timalina: Ca	sists and Evaluation	
	ter Raleigh significant and why did ots to colonise Virginia fail?	V	8. Who's who?				√	9. Timeline: 50	ciety and Exploration	V
Key Terms	Definitions		R	obert		Francis		1560's & 7	'0's: 72 new Grammar Schools	+
Algonquians	The natives in areas sought by the			udley,		Drake:		18808080808080	53: Statute of Artificers	
/ ligoriquiano	English			arl of		explorer,		1562 – 68:	John Hawkins' 3 slave voyages	
Bartering	Explorers exchanged utensils for food			eicester;		privateer			s Mercator's sea charts published	
Croatoan	An island near to Roanoke		1532-1588	ne ,	Service and the service and th	and hated			sus College Oxford, founded	
Expeditions	Voyages to Virginia: in 1584 and 1587			lueen's avourite?	1540-1596	by King Philip II			.572: Vagabonds Act	
Trip Leaders	Raleigh sent Grenville, Lane and Harriot				-			II 977 5	poor harvests impacting the poor	
Manteo&	Natives in England to help colonists			lary, Jueen of		William Cecil: The		II .	L576: Poor Relief Act	
Wanchese	*			cots:		Queen's			obisher tried & failed to reach China	
Reconnaissance	Fact-finding mission to Virginia 1584			econd		chief			Harrison's 'Description of England' ke's circumnavigation of the globe	
Roanoke	Became known as the 'Lost Colony'		C	ousin to		advisor				
'Tiger'	Largest of the 5 ships sent by Raleigh		1542-1587 Elizabeth 1520-1598			1585 - 1587: Raleigh's attempts to colonise Virgin		'		



Bournemouth School History: Crime & Punishment Paper 1: Knowledge Organiser: Year 10: Summer 1:

	1000 - 1500: Key terms/definitions	1000 – 1500: Law Enforcement and Trials	1	
Crimes	Definition	V	Tithings: groups of 10 men responsible for each others' behaviour	
Against	Theft of clothing, food and smaller amount of money: this accounted for 73%		Hue and Cry: loud shouting to raise the alarm; everyone expected	
property	of crime in 1300's. Another crimes against property would be arson		to join the hunt for the suspect	
Against the	e Murder, assault, slander. Violent crime made up 18% of crime in 1300		Local Jury: A jury of peers would assess the guilt of the accused.	
person	person		Witnesses would swear oaths to support the defendant	
Against	Hunting in the King's forest (Forest Laws), Treason (disobedience to the		Church Courts: Tried moral crimes: bigamy, drunkenness etc	
Authority	ty monarch), heresy: holding different religious beliefs to the monarch,		Trial by Ordeal: Hot water, iron, cold water, blessed bread	
		Royal Judges: Oversaw on quarter sessions from the 1200s.		

How did the Normans change Crime & Punishment 1066-1170s

- 1.The Sheriff: introduced to catch criminals
- **2. Murdrum Fine:** William introduced a new law which said that if a Norman was murdered, all the people in that region had to pay an expensive fine.
- **3.Trial by Combat:** The accused fought with the accuser until one was killed or unable to fight on. The loser was then hanged as God had judged him to be guilty.
- **4. Ending the Wergild:** William ended the Wergild system, all fines for crimes were paid to the King and no longer the victim's family.
- 5. Women: Women had less rights than men in law
- **6. Church Courts:** The Normans introduced Church courts.
- **7. Forest Laws:** This created new crimes where previously none had existed and made other crimes more serious:

		Royal Judges: Over	saw o	n quarter s	sessions from the 1200s.	
/			Key p	eople		
			✓			✓
		Henry II: King of England 1154-89			William the Conqueror King of England 1066 - 1087	
		Pope Innocent III: Pope who ended Trial by Ordeal 1161-1216				
		1000 – 150	00: P	unishmer	nts	\checkmark
	Wergild: A	A form of compensation pa	aid to t	he victims o	of crime in the Saxon period	
	Murdrum	Fine: A fine paid by a con	nmunit	y for death	of a Norman	
	Forest La	ws: A form of poaching, p	unisha	ble by muti	lation or death	
	Corporal I	Punishment: Mutilation fo	r repe	ated crimes	s such as theft	
	Capital Pu	inishment: Hanging for s	erious	crimes like	treason.	

Case Study: What role did the Church have in Crime & Punishment?

- 1. Church Courts: The Church claimed the right to try a churchman accused of a crime in its own courts. Church courts often dealt with 'moral offences': failing to go to Church, drunkenness, adultery, playing football on a Sunday
- 2. Benefit of the Clergy: If a person was accused of a crime they were allowed to claim the right to be tried in a Church court (where the punishments were less severe). This should have meant only priests however others would often use it. You had to prove you worked for the church by reading out a passage from the bible people often memorised the verse to save themselves from capital punishment.
- **3. Sanctuary:** If a criminal on the run from the law could reach a Church, he or she could claim sanctuary. Once inside the Church the criminal was under the Church's protection and could not be arrested. The criminal could spend up to 40 days there before deciding either to leave the Church and be arrested or to leave the country.
- **4 Trial by ordeal:** Trial by hot iron, water, blessed bread or cold water. The Church ended trial by ordeal in 1215. It was seen as unreliable as it was possible that some guilty men and women could escape punishment whilst others were wrongly found guilty.

What changes occurred by the later Middle Ages 1170s-1500?

- **1. The King's peace**: if someone committed a crime close to the location of the King at any time, the punishment was made far harsher
- **2. Travelling Justices**: People given power by the king to hear court cases on his behalf and pass sentence on people found guilty.
- **3. Ending of trial by ordeal**: All cases now had to be settled by jury.
- **4.** Justices of the Peace (JPs): 1361 these men had the right to fine and arrest people who were disturbing the peace.
- **5. Country Coroners:** People specifically appointed to investigate unexpected deaths.

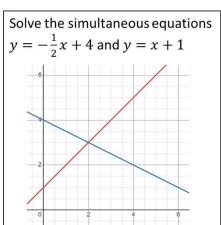
Year 10 – Maths

Summer

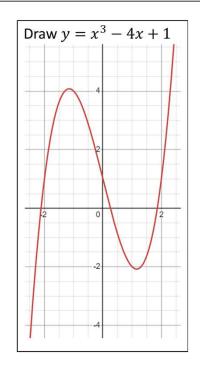
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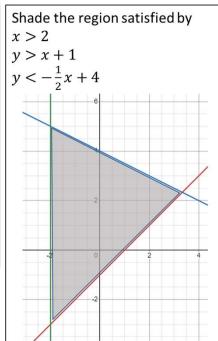
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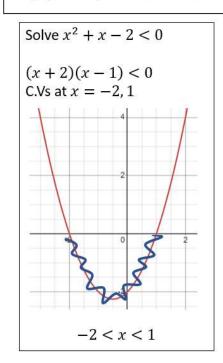
Keyword	Definitions	Example
Simultaneous Equations	2 equations with 2 unknowns. These can be solved graphically by finding the point(s) of intersection when plotting the graphs.	See separate box
Graphical Inequalities	Regions on a coordinate system that satisfy an inequality involving x,y or x and y	See separate box
Set Notation	A way of presenting solutions to quadratic inequalities	$ \{x: -2 \le x \le 5\} $ $ \{x: x < 2\} \cup \{x: x > 8\} $
Quadratic equations	Equations of the form $0 = ax^2 + bx + c$ where $a \neq 0$	6
Quadratic graph	Is a parabola. Quadratic graphs have a turning point, line of symmetry, and y-intercept. Can be used to solve equations by looking for intersections.	Line of Symmetry
Roots	For a quadratic graph $y = ax^2 + bx + c$, the roots are where the graph crosses the x -axis (i.e: $y = 0$)	Roots 2 0 2 4
Discriminant	Tells you how many roots a quadratic will have.	$b^2 - 4ac > 0 \rightarrow 2$ real roots $b^2 - 4ac = 0 \rightarrow 1$ repeated root $b^2 - 4ac < 0 \rightarrow No$ real roots
Completing the Square	Writing $x^2 + bx + c$ in the form $\left(x + \frac{b}{2}\right)^2 - \frac{b^2}{4} + c$ "Half the coefficient of x , and subtract it's square"	$y = x^{2} - 4x + 3$ $y = (x - 2)^{2} - 4 + 3$ $y = (x - 2)^{2} - 1$
Turning point	The maximum or minimum point of a quadratic curve. Can be found using "completing the square"	The turning point of $y = x^2 - 4x + 3$ Write in completed the square form: $y = (x - 2)^2 - 1$ Turning point at $(2, -1)$
Quadratic inequality	Inequalities of the form $ax^2 + bx + c > 0$ or $ax^2 + bx + c < 0$ (Inequalities can be inclusive)	See separate box
Cubic equation	Equations of the form $0 = ax^3 + bx^2 + cx + d$ where $a \neq 0$	$0 = x^3 - 5x^2 + 4$
Cubic graph	Have 2 turning points, and are rotationally symmetrical about the point of inflection.	See separate box
Iteration	An iterative process using a rearranged version of an equation. $0 = f(x) \rightarrow x_{n+1} = g(x_n)$	Used to solve equations.



Solution: x = 2, y = 3







Year 10

Unit: Samba em prelúdio

See set work support guide and other resources: Student resources > 10 > AOS4 - Fusions > Samba Em Prelúdio

Acoustic guitar does not require amplification (unlike an electric one)

Added notes notes added to a basic triad, such as a seventh or ninth

Added sixth chord a triad with the sixth above the tonic added, common in jazz and popular music.

Altered notes notes in a chord that have been sharpened or flattened, for example a flattened fifth

Articulation the manner in which a note or sequence of notes is played (e.g. staccato, legato)

Augmentation increasing the duration of the original notes

Broken chord when the notes of a chord are played one at a time rather than sounding together

Capo a clamp fastened around the neck of a string instrument, holding down all the strings and raising their pitch

Chopin, Frédéric Polish composer of Romantic piano music (1810-49)

Chord voicing how the notes in a chord are spaced out

Clave the rhythm closely associated with the claves





Claves Latin percussion instrument – two short sticks struck together

Contrapuntal written in counterpoint – two melodies played against each other.

Conjunct movement by step

Consonant chords or harmonic intervals that sound pleasant (e.g. thirds and sixths)

Cover a new version of an existing song

Cross rhythms rhythms that cross the usual pattern of accented and unaccented beats, creating irregular accents and syncopation

Disjunct movement by leap

Dissonant chords or harmonic intervals that clash(e.g. sevenths)

Extended chord a chord with at least one added note

Fusion the blending of two or more musical styles, usually from different cultures

Groove rhythmic feel

Independent parts instruments or voices doing different things. A part simply harmonising another (e.g. in thirds) is not independent

Inversions chords with a note other than the root as their bass

Monophonic a texture made up of a single line without accompaniment

Multi-track a recording of a performance on separate audio tracks, which can be edited

individually

Outro a concluding section, like a coda in classical music

Polyphonic a texture where many lines overlap

Pull-off when a note is sounded on the guitar by lifting a finger of the fretting hand

Sequence repetition of a musical phrase at a higher or lower pitch than the original

Solo an extended, often improvised, melodic line played by a single instrument over a given chord sequence, usually as an instrumental interlude in the middle of a song

Syllabic one note sung per syllable

Syncopation accenting the offbeat or the weak beats in a bar

Turnaround a set of faster moving chords to get the music back to a repeated section – most common in jazz



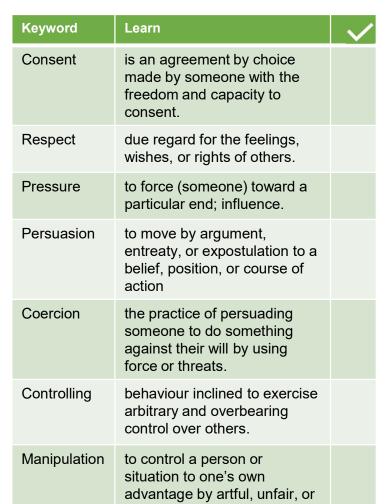
This QR code will take you to a Spotify playlist with listening for Samba em prelúdio. You will find it helpful to listen to it as you learn.







Year 10 – Personal Development – April 2024



Help and support:

ChildLine: www.childline.org.uk 0800 1111 Samaritans: www.samaritans.org 116 123

Refuge: www.refuge.org.uk

Women's Aid: www.womensaid.org.uk

Mankind: www.mankind.org.uk

Domestic abuse helpline: 0808 2000 247

Galop (LGBT anti-abuse charity): www.galop.org.uk

National LGBT+ domestic abuse helpline: 0800 999 5428

Relationship advice:

- Be respectful at all times
- Communicate clearly, share your thoughts and seek the thoughts of others without judgement
- Safety, keep each other safe
- Consent, it is the person seeking consent who is responsible for ensuring that these conditions are met. Ask, do not assume.

Talking to someone about a toxic or abusive relationship can be scary. Always choose an adult that you trust and feel safe with.

You could do this face-to-face, or you could write them a letter, or leave a note. Just remember that anything written could be found by someone else or be shared - so think about how you will keep it private.

If you want to discuss it face-to-face but feel worried about starting the conversation, you could try starting with this:

- I need your help with something.
- I'm worried about something, and I need your advice.
- I have something important to tell you.

insidious means

Seeking help - some advice...

Non-Examined Assessment (NEA) Written Component – 25 marks **Analysis Section – 15 Marks** STRENGTH 1 - Fitness Component (500-750 words): STRENGTH 2 - Skill/Technique (500-750 words): Define the component Describe what your chosen skill / technique is and how it is used in a Describe how and when you need it within your sport & why it is game / competition / performance / match. important. Link it to your specific position and explain. Explain the technique – PERFECT PERFORMANCE MODEL. Include knowledge of rules/regulations and how that links to your Justify why you have chosen this as a strength and how it created a sport. (E.g. In Football you have a rule called 'offside' which means positive performance. Link to positional play, game play awareness. Speed is therefore needed to reach the ball following a pass Explain from a 'recent performance' why and when you selected to between defenders without being offside. use / apply it (Include at least 2 examples). (Focus on technique and Explain from a recent performance why you selected the movement and how it enables the skill to work positively). component as a strength. Include details of a match / game / competition / performance. Give at least 2 examples of how / why / Explain how your skill impacted on the game / teammates / opposition / competition. when you used it. Explain how the chosen component affected your performance in a positive way. Justification of how the component of fitness impacted yours and others performance **WEAKNESS 1 - Fitness Component (500 words):** WEAKNESS 2- Skill/Technique (500 words): Define the fitness component. Describe what the chosen skill is and how it is used in a game. Describe how you need it within your sport & why it is important and how Explain the technique - PERFECT PERFORMANCE MODEL. that links to your sport. Link it to your specific position and explain. Justify why you have chosen this as a weakness and how it created a Explain from a recent performance (Details of match / competition / game negative performance. Link to positional play, game play awareness. / tournament) why you selected the component as a weakness. GIVE AT Explain from the recent performance why you selected it. Focus on technique and movement and how you were unable to complete the skill / LEAST TWO EXAMPLES. Explain how your 'weakness' affected your performance in a negative techniques / choreography / moves and how it affects the outcome (result / marks awarded) and the game. GIVE AT LEAST TWO EXAMPLES. Justify how the component of fitness negatively impacted yours and others Justify how it is a weakness for your position & sport and why you chose performance – Was it an advantage to your opponents? Did it encourage it.

the opponents to perform better?

Topic 5a - Forces

Keyword	Learn	✓
Scalar	A quantity with size (magnitude) only.	
Vector	A quantity with both size and direction. A vector quantity may be represented by an arrow. The length of the arrow represents the magnitude, and the direction of the arrow the direction of the vector quantity.	
Velocity	Speed in a given direction. Velocity is a vector.	
Displacement	Distance travelled in a given direction. Displacement is a vector.	
Force	A push or pull. Measured in newtons, N. Force is a vector.	
Contact force	Force exerted between two objects when they touch. E.g. friction, air resistance, tension and normal contact force.	
Non-contact force	Force exerted on objects when they are physically separated. E.g. gravity, electrostatic and magnetic forces.	
Centre of mass	The point at which the weight of the object can be taken to act. In diagrams, arrows representing the weight should start from this point.	
Resultant force	A single force that can replace multiple forces acting on an object.	
Free body diagram	Used to show the magnitude and direction of all the forces acting on the object.	
Work	When a force of 1 N pushes an object 1 m, in the direction of the applied force, then 1 J of work is done	
Elastic deformation	When an object is stretched, it returns to its original length after the forces are removed.	
Inelastic deformation	When an object is stretched, it does not return to its original length after the forces are removed.	
Extension	The difference between the stretched and unstretched lengths of a spring.	
Elastic potential energy	The energy stored in a stretched (or compressed) spring.	
Moment	The turning effect of a force. Measured in newton metres, Nm.	
Principle of moments	When a system is balanced the sum of the anti-clockwise moments equal the sum of the clockwise moments.	
Fluid	A liquid or a gas. It flows and can take the shape of the container.	

Quantity	Unit	Symbol	L,			
force	newton	N				
mass	kilograms	kg				
gravitational field strength	newtons per kilogram	N / kg				
work	joule	J				
extension	metre	m				
spring constant	newtons per metre	N / m				
elastic potential energy	joule	J				
moment	newton metres	Nm				
pressure	newtons per metre squared	N/m^2				
density	kilograms per metre cubed	kg/m³				

Pressure in fluids. Learn these two statements.

The pressure in fluids causes a force normal (at right angles) to any surface.

A partially (or totally) submerged object experiences a greater pressure on the bottom surface than on the top surface. This creates a resultant force upwards. This force is called the upthrust.

Equations

Weight = mass x gravitational field strength

 $W = m \times g$

Work done = force x distance in the direction of the force

 $W = F \times s$

Force = spring constant x extension

 $F = k \times e$

Elastic potential energy = $\frac{1}{2}$ × spring constant × (extension)²

 $E_e = \frac{1}{2} \times k \times e^2$

Moment = Force x perpendicular distance

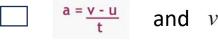
 $M = F \times d$

$$Pressure = \frac{Force normal to the surface}{area of the surface}$$

 $P = \frac{F}{A}$

Pressure = height x density of the liquid x gravitational field strength $P = h \times \rho \times g$

Keyword	Learn	✓
Scalar	A quantity with size (magnitude) only.	
Vector	A quantity with both size and direction.	
Displacement	nt Distance travelled in a given direction. Displacement is a vector.	
Velocity	Speed in a given direction. Velocity is a vector.	
Acceleration	The rate of change of velocity. Acceleration is a vector.	
Resultant force	A single force that can replace multiple forces acting on an object.	
Newton's First Law	If no resultant force is acting on an object, it will be stationary or it will continue to move at same speed in same direction.	
Newton's Second Law	Force = mass x acceleration	
Newton's Third Law	For a pair of interacting objects, the forces they exert on each other are equal but opposite.	
Terminal velocity	When air resistance and weight are equal, no resultant force acts so object reaches a constant velocity.	
Inertia	The tendency of objects to continue in their state of rest or of uniform motion.	
Momentum	Momentum = mass x velocity	
Conservation of momentum	Total momentum before and after a collision/explosion is the same.	
Force	Force is equal to the rate of change of momentum.	
Stopping distance + braking distance Thinking distance + braking distance		
Thinking distance	The distance travelled whilst the driver reacts.	
Braking distance	The distance travelled under the braking force.	



and $v^2 = u^2 + 2as$

u = velocity at start

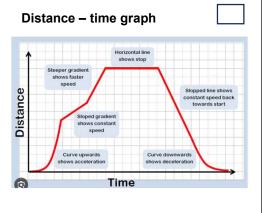
v = velocity at end

a = acceleration

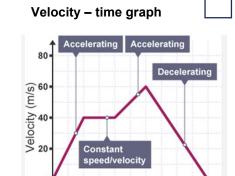
s = distance

t = time

Topic 5b – Force and Motion



Gradient is the speed.



Gradient is the acceleration. Area is the distance travelled.

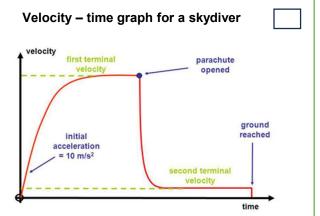
20

10

30

Time (s)

40



Speed	
Walking	1.5 m/s
Running	3 m/s
Cycling	6 m/s
Speed of sound	330 m/s
Speed of light	300,000,000 m/s

Factors <u>increasing</u> thinking distance		Factors <u>increasing</u> braking distance
	Drinking alcohol Taking medication Tiredness Distracted (using mobile phone)	Wet or icy roads Worn brakes or worn tyres Smooth road surface Smaller braking force

Religious teachings about human sexuality		Sexual relationships before and outside of marriage	Contraception and family planning
<u>Human</u> <u>sexuality</u> : refers to how people express themselves as sexual beings. Heterosexual: Sexually attracted to members of the opposite sex.		Adultery: voluntary sexual intercourse between a married person and someone who is not their husband or wife. Sex before marriage	Contraception: methods used to prevent pregnancy (e.g. condoms, the pill - artificial), the rhythm method - natural
Homosexual: Sexually attracted to members of		Some liberal Christians believe that sex before marriage can be	Most Christians and Jews accept family planning in
For homosexual relationships Reform Jews believe that loving, committed homosexual relationships should be allowed.	Against homosexual relationships The Catholic Church teaches that homosexual relationships are wrong because they do not allow for new life to be created.	a valid expression of love, as long as they are in a committed relationship. Others argue that sex before marriage is wrong. Traditionally, Judaism considers sex before marriage as sinful and wrong. Sex outside marriage Adultery is against one of the Ten Commandments 'thou shalt not commit adultery' Exodus 20:14 (Judaism and Christianity) Both religions believe adultery breaks the spiritual bond of	certain circumstances, but not to stop having children altogether. Christian views Catholics -artificial contraception goes against natural law. Sex should be about creating new life (rhythm method is allowed). Other Christian's contraception should be allowed
Key Quotations: "Do not lie with a male as one Leviticus 18:22 (Tenakh)	lies with a woman: It is an abhorrence"	marriage.	for family planning. Jewish views
Divorce and Remarriages Divorce: legal ending of marriage Remarriage: when someone marries again while alive. Why do people got divorced? Adultery, people changing and growing apart, vinability to have children etc. Religious views on divorce and remarriage Some Christians believe in the sanctity of marriseparate but not remarry whilst their partner is Other Christians believe divorce is the lesser of Jews believe marriage is a voluntary contract, s	vork and money pressures, addiction, age and divorce is wrong. Catholics can still alive. two evils and should be allowed.	Religious Teachings about Marriage Marriage: legal union between a man and woman as partners in a relationship (same-sex marriage is legal in the UK) Cohabitation: refers to a couple living together and having a sexual relationship without being married. What is the nature and purpose of marriage? Jews have a binding contract (Ketubah) that protects the woman's financial security. It provides a secure foundation to raise a family. Christians believe marriage is the proper place to enjoy sex, raise children and provide a secure and stable environment for family life. Cohabitation and same - sex marriage Catholics and Orthodox Jews oppose cohabitation as they believe sex should only take place within marriage. Against same-sex marriage Reform and liberal Jews → accept same-sex marriage & cohabitation.	Orthodox accepts use of contraception by married couples Reform allow contraception for many reasons including social and financial reasons. The nature of families Different types of families Nuclear family- a mother, father and children (most common family type in the west). Extended family > includes grandparents and other relatives. Jews view themselves as an extended family, descending from Abraham, Isaac and Jacob . Some Christians and Orthodox Jews disapprove as they believe children should have both male and female role models. Polygamous families are when a man has more than one wife. Illegal in UK
The Purpose of Families Procreation: bringing babies into the world. For Christians and Jews, the purpose of familie faith and to protect children and keep them safe them safe. Procreation. Mainly takes place within the family. Jews constructions of the purpose of For Christians, procreation is an important purpose.	e. sider a large family a blessing from God.	Religious Attitudes to Gender Equality Gender equality: men and women should have the same rights and opportunities as each other. Gender prejudice: holding biased opinions about people based on their gender. Sexual stereotyping: having a fixed idea or image of how men and women will behave. Gender discrimination: acting against someone on the basis of their gender.	Role of parents- to love and care for children, educate them about their faith, encourage positive morals and values. Role of children- to love and respect parents, support and care for them. KISSJO SKILLS: Knowledge Impact

Christians believe all people are created in the image of God.

In **Reform Judaism**, women can be rabbis however this is not

allowed in Orthodox Judaism. Women take on more traditional

"There is neither Jew nor Gentile" Galatians 3:28 [NIV]

roles within Orthodox Judaism.

| Impact

Specialist language

Source

Judgement

Opinion

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Families provide secure, stable environments for children to grow up in.

Educating children in a faith - In Judaism, the Shema instructs parents to teach children

God's laws. Christians are expected to teach children good morals and Christian values.

Stability and the protection of children

<u>Re</u>	vising the past	Revi	sing the present	Revisi	ng the future
Fui	I went	Voy	l go	Voy a ir	I am going to go
Hice	I did	Hago	I do	Voy a hacer	I am going to do
Jugué	I played	Juego	I play	Voy a jugar	I am going to play
Comí	I ate	Como	l eat	Voy a comer	I am going to eat
Bebí	I drank	Bebo	I drink	Voy a beber	I am going to drink
Viajé	I travelled	Viajo	I travel	Voy a viajar	I am going to travel
Estudié	I studied	Estudio	I study	Voy a estudiar	I am going to study
Salí	I went out	Salgo	I go out	Voy a salir	I am going to go out
Fue	He/she went / it was	Es	He / she / it is	Va a ser	He / she / it is going to be
Fuimos	We went	Vamos	We go	Vamos a ir	We are going to go
Jugamos	We played	Jugamos	We play	Vamos a jugar	We are going to play
Comimos	We ate	Comemos	We eat	Vamos a comer	We are going to eat
Salimos	We went out	Salimos	We go out	Vamos a salir	We are going to go out

-ar verb endings preterite					
-é	-amos				
-aste	-asteis				
-ó	-aron				

-ar verb endings present				
-0	-amos			
-as	-áis			
-a	-an			

-er verb endings preterite			-er verb endings present		
-í	-imos	-о			-emos
-iste	-isteis	-es			-éis
-ió	-ieron	-е			-en

haré	l will do	
jugaré	I will play	
comeré	I will eat	
será	It will be	
saldré	I will go out	
viajaré	I will travel	
	jugaré comeré será saldré	jugaré I will play comeré I will eat será It will be saldré I will go out

Simple future essentials

I will go

iré

-ir verb endings preterite		
-í	-imos	
-iste	-isteis	
-ió	-ieron	

	-ir verb endings present			
	-0		-imos	
	-es		-ís	
	-е		-en	
┙				

Simple future	endi	ngs (infinitive + ending)	
-é		-emos	
-ás		-éis	
-á		-án	

Year 10 SPANISH - Half-Term 5

<u>Future phrases</u>		
Cuando sea mayor	When I am older	
Si pudiera	If I could	
Si tuviera la oportunidad	If I had the opportunity	
Me gustaría + infinitive	I would like to	
Me encantaría + infinitive	I would love to	
Quiero + infinitive	I want to	

Past tense opinions		
Pensé que	I thought that	
Mi amigo pensó que	My friend thought that	
A mi hermano le gustó	My brother liked it	
A mi amigo le encantó	My friend loved it	
Lo pasé bomba	I had a blast	
Fue genial	It was great	
Fue inolvidable	It was unforgettable	

Pros & cons		
Por un lado	On one hand	
Por otro lado	On the other hand	
Una ventaja es que	An advantage is that	
Otra ventaja es que	Another advantage is that	
Una desventaja es que	A disadvantage is that	
Otra desventaja es que	Another disadvantage is that	
Lo bueno es que	The good thing is that	
Lo malo es que	The bad thing is that	
Lo que más me gusta es	What I like the most is	
Lo que menos me gusta es	What I like the least is	
Sin embargo	However	
No obstante	However	

Negatives		
nada	nothing	
nadie	nobody/no one	
ninguno/a/os/as	no, none, not one	
tampoco	neither	
nini	neither nor	
no hay	there isn't	
nunca	never	
jamás	never (strongly)	

Opinion structures		
Pienso que	I think that	
Creo que	I think that	
En mi opinión	In my opinion	
Diría que	I would say that	
Según mi amigo	According to my friend	
Según mis padres	According to my parents	
Mi mejor amigo dice que	My best friend says that	
Mis padres dicen que	My parents say that	

Connectives & adverbs		
porque	because	
dado que	given that	
también	also	
además	furthermore	
aunque	although	
afortunadamente	fortunately	
desafortunadamente	unfortunately	
recientemente	recently	
-	-	

1	Inter	sifiers	
┨	muy	very	
4	bastante	quite	
]	un poco	a bit	
	completamente	completely	
_	absolutamente	absolutely	

¿Qué hay en tu región?					
un río	a river				
un paisaje	a landscape				
una playa	a beach				
la arena	the sand				
la selva	the rainforest				
la naturaleza	nature				
un volcán	a volcano				
una montaña	a mountain				
la sabana	the savannah				
un bosque	a forest				

¿Qué hay en tu ciudad?				
la bolera the bowling alley				
la iglesia	the church			
la mezquita	the mosque			
el castillo	the church			
el polideportivo	the sports centre			

nave eaten
have bought
nave played
have travelled

El perfecto					
he	I have				
has	You have	+ ado (-ar verbs) (e.g. he jugado)			
ha	He / she has	(c.g. ne jugado)			
hemos	We have	+ ido (-er/ir verbs)			
habéis	You (pl.) have	(e.g. he comido / he			
han	They have	salido)			
-					

Year 10 SPANISH - Half-Term 5

Timetable

	1Mon	1Tue	1Wed	1Thu	1Fri	2Mon	2Tue	2Wed	2Thu	2Fri
Reg										
1										
2										
Break										
3										
4										
Reg										
Lunch										
5										
6										