



Name:
Tutor Group:
Tutor & Room:

AMBITION • KNOWLEDGE • DETERMINATION

Stick your Timetable here

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How do I complete Knowledge Organiser homeworks?

You will be set a MINIMUM of 2 Knowledge Organiser homeworks in every subject each half term

STEP 1 Identify what words/ definitions/facts you have been asked to learn.	STEP 2 Write today's date and the title from your Knowledge Organiser.	STEP 3 Write out the keywords/definitions/facts you have been set in FULL.
	n D n D n D n D n He. Mathemodics ko Horrework at 4. Date. 2/7/19 Date. 2/7/19	1 Margin Not Party with the second s
STEP 4 Cover the definitions in your SELF-QUIZZING BOOK, apart from the first. Read it, Cover it, Say it in your head, check it <u>REPEAT</u> until confident.	STEP 5 Cover up ALL the definitions/facts and write them out <u>from memory</u> in your SELF-QUIZZING BOOK.	STEP 6 Check your answers and correct where required. Repeat Steps 4 to 6 until you are confident.
1 Hulliple - a number in another number's times table	 ma Pathwarden to three and an 2/9/19 Hillight - a content or another analysis have being Hillight - a content or another and the setter states Rose sector - a content or another and the setter states Rose sector - a content or another and the setter states Rose sector - a content or another and the setter states Rose sector - a content or another and the setter states Rose sector - a content or another and the setter states Rose sector - a content of a content or another sector states Rose sector - a content of a content or another sector sector. Rose sector - a content of a content or another. Rose - A content of a content of a content sector. Rose - A content of a content of a content sector. Rose removes. Rose removes. Rose removes. 	You will be <u>tested</u> on the words/definitions/ facts as a starter activity in your lesson on the day that the homework is due. This will be completed in your normal exercise book and you will mark it in class.

Your Knowledge Organiser and Self-Quizzing Book



Knowledge Organisers

Knowledge Organisers contain critical, fundamental knowledge that you MUST know in order to be successful in Year 10 and subsequent years.

They will help you recap, revisit and revise what you have learnt in lessons in order to move the knowledge within from your shor-term memory to long-term memory.

	Name	
	Mor Group:	
	hauge:	
	Self-quizzing Book	
Pres	tation of work	
		1
You	destination in your hands	2
	Excellence is a habit	_

You <u>must</u> bring your Knowledge Organiser and Self-Quizzing Book to **every** lesson and place it on your desk at the beginning of each lesson.

You <u>must</u> keep all of your Knowledge Organisers and Self Quizzing Books because the fundamental knowledge required in Year 10 will also be required in Year 11.

Knowledge Organisers are <u>NOT</u> a replacement for revision guides but they include the fundamental knowledge that ALL students in Year 10 require.



Self-Quizzing Book

This is the book that <u>all</u> Knowledge Organiser homework is to be completed in. You must follow the simple rules as to how they are to be used.

Keywords.

1. Formal Elements: Line, Tone, Colour, Pattern, Shape, Texture and Form

2.Line: Line is the path left by a moving point.

3.Shape: Shape is an area enclosed by a line.

4.Tone: This refers to the lightness or darkness of something.

5.Pattern : A design that is created by repeating lines, shapes, tones or colours.

6. Observational Drawing: When you observe something and respond to it with a visual representation.

7.Collage: A piece of art that is created by sticking various different materials such as paper or fabric on to a backing.

8.Typography: Arranging letters or text in a way that makes them visually appealing to the reader.

9.Two Dimensional: elements organised in terms of a flat surface.

10.Three Dimensional: Produced

by carving or shaping stone, wood, clay, or other materials.

11.Media: The material used to create artwork.

12. Technique: The way tools and media are used to create artwork.

13. Composition: This is the way an object is placed or positioned on a page.

14. Lino Printing: Block printing that involves carving a pattern or design into a vinyl surface.

YEAR 10 ART KNOWLEDGE ORGANISER – UNIT 2 EXAM

Sketchbook

- · Artist research
- · Experiment with a range of materials.
- · Experiment with colour, line, shape, space.
- Annotations to show reflections on their work and that of others.



Command Words.

- **1. Research**: The process of solving problems and finding facts in an organised way.
- **2. Analyse:** Identify several relevant factors, show how they are linked, and explain the importance
- 3. Method : A procedure, technique, or way of doing something
- **4. Evaluation:** Bring together all of your information and make a judgement on the Importance or success of something.
- **5.** Generate Ideas: The process of creating, developing and communicating abstract, concrete or visual ideas.
- **6. Develop:** To grow or change into a more advanced or stronger form or idea.
- 7. Refine: To make improvements to the idea.

	B4	Bioenergetics	
	Key word	Definition	
1	Photosynthesis	The process by which plants make glucose using carbon dioxide, water and sunlight.	aver dicitates and
2	Respiration	The process by which energy is released .	
3	Metabolism	All the chemical reactions in a cell or the body.	
4	Aerobic respiration	Respiration where oxygen is used to release lots of energy.	Sunlight Glucose
5	Anaerobic respiration	Respiration where oxygen is not used and releases only small amount of energy.	Carbon dioxide + Water Photosynthesis Oxygen

B5		Homeostasis								
Ke	y word	Definition								
1	Homeostasis	The regulation of internal conditions to maintain optimum conditions in response to changes.								
2	Stimulus	A change in the environment.]			~		F		
3	Insulin	Released from the pancreas in response to high blood glucose levels. It causes glucose to be converted into glycogen for storage in the liver.	mernal blood	blood glacore concentration becomes too high	-	pancreas refeases insulin which courses the cells to absorb glucces	-	liver and mascles convert the glucose into glycogen to be stored	*	normal bload
4	Glucagon	Released from the pancreas in response to low blood glucose levels and causes glycogen to be broken down into glucose and released back into the blood.	glucove concentration	blood glacose concentration bestmes too low	-	pantreas relation glacopon which course the cells to relates glacose	-	liver and muscles convert that glucopen into glucopen in but relement	-	glucose concentration
5	Type 1 diabetes	When the pancreas does not produce enough insulin.							twin	d.cont
6	Type 2 diabetes	When the body cells no longer respond to insulin.	-							

B5		Homeostasis (Triple T)		
Ke	y word	Definition	NEAD CICUTED	FAR-SIGHTED
1	Myopia	Short-sightedness.	NEAR-SIGHTED	ran-Siunteu
2	Hyperopia	Long-sightedness.		-
3	Cerebral cortex	The outer part of the brain responsible for intelligence, language, memory and consciousness.		
4	Medulla	Controls unconscious activities such as heart rate and breathing rate.	Муоріа	Hyperopia
5	Cerebellum	Controls balance, co-ordination of movement and muscular activity.		A

GCSE Business Studies

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1.4 Makin	1.4 Making a business effective.					
Stakeholder	Any one, or group of people, that have an interest in the business operations.					
Share	The percentage of a business owne	ed by a person				
Shareholder	A person who owns a share in a bu	isiness				
Limited liability	Restricts the losses suffered by ow	ners to the sum of money they have	e invested into the business			
Unlimited	The business owner and business a	are one entity therefore the owner	s responsible for all of the busine	ess debts. The entrepreneur may lose		
liability	their personal assets to clear the d	ebt.				
Bankrupt	When a business (or person) is una	able to pay all their debts, even afte	r personal assets have been sold	for cash		
Sole trader	A business owned run by 1 person.	. Has unlimited liability				
Partnership	A business owned and run usually	by between 2 and 20 people. Has u	nlimited liability			
Private Limited	A small business. Shares of the bus	iness can be sold to family and frier	nds. They have limited liability.			
company						
Franchise	Paying a business owner (the franc	hisor) for the right to use an establ	ished business name, branding a	nd business methods		
Franchisee	There person who opens a busines	s as a franchise				
Royalties	Monies paid by the franchisee to t	he franchisor. Usually as a percenta	ge of the profits.			
Marketing Mix	Product – the product or service	Price – how much you charge for	Place – where you sell your	Promotion – how you make		
	you are selling your product or service product or service customers aware of your product or service / service / business					
e-commerce	Where businesses sell online rathe	r than from a physical store.				
Business plan	ness plan A document setting out a new company's plans, aims, and cash flow					

GCSE Business Studies

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1.5 Understanding external influences on a business cont				
Business plan	A document setting out a new company's plans, aims, and cash flow			
Payments	Ways of paying online such as paypal			
systems				
Consumer	Laws that empower the consumer. Allows them to demand certain standards from suppliers.			
rights				
Consumer law	Acts of Parliament (laws) that are set to protect customers from misleading or dangerous practices by businesses			
Legislation	Laws passed by acts of Parliament that everyone needs to follow. Breaking these laws may result in a fine or even prison sentence			
Economy	Refers to the production of, and consumption of, goods and services in the economy. This then links into the supply of money.			
Economic	A measurement of the current economic outlook.			
Climate				
Disposable	sable The amount of money people have left from their wages once all necessities / bills have been paid.			
income				
Unemployment	The number of people available for work who do not have paid employment			
Taxation	A levy placed by the Government on certain things in the economy such as imports, incomes of individuals and companies.			
VAT	Value added tax. A tax added onto the sale of certain goods in the economy. Currently 20%			
Income tax	A tax placed on the income of individuals.			
Inflation	A sustained increase in prices in the economy over a specific time period.			
Exchange rate	The value of a currency based on how much of a different currency it can purchase.			
Pressure Group	Organisations formed to put forwards a particular point of view or cause.			
Recession	A period of 2 quarters (2 x 3 months) where the economy as a whole has shrunk			
Boom	A period of sustained high growth within the economy			

Y10 Food and Nutrition

Genetically modified crops are plants used in agriculture, the DNA of which has

A microscopic organism used in bread making. Yeast needs food, warmth,

moisture and time to develop carbon dioxide, this gas helps the dough to rise.

Wheat and other related grains (including barley, and rye) contain a mixture of

two proteins glutenin and gliadin. When flour made from grinding these grains

been modified using genetic engineering methods.

Definition

Kev word

2. Yeast

3. Gluten

formation

4. Gelatinisation

5. Coagulation

6 Dextrinisation

7. Aeration

intolerance

9. Food allergy

10. Religious

heliefs

8. Food

1. GM crops



Definition

sold for consumption.

before processing.

is mixed with water the two proteins combine and form gluten. Without water, gluten is not formed. The more the dough is mixed, the more gluten is developed.	13. Classification	Deciding which category something belongs in. Commodities such as fruits and vegetables may be classified.
The change that starches undergo during cooking.	14. Food spoilage	Food spoilage is a natural process caused by bacteria, mould, fungi and yeasts. Once a food is picked, slaughtered, cooked or stored, microorganisms will start
		to cause decay and eventually make food unsafe to eat.
The browning of starch with heat.	15. Cross contamination	Cross-contamination occurs when juices from raw meats or bacteria from unclean equipment touch cooked or ready-to-eat foods.
The process of allowing air to be combined into ingredients to make them lighter and/or create more volume.	16. Primary Processing	When raw food is changed or converted into foods that can be eaten immediately or into ingredients that can be
A food intolerance is when a person has an unpleasant reaction to a food or an ingredient.		used to make other food products. Examples include washing vegetables, squeezing fruit to make fruit juice, heat treatments for pasteurisation so that milk is
A food allergy, involves the person's immune system. Some people are either		pasteurised, and wheat milled into flour.

Kev word

11. Commodity

12 Provenance

.

born with or develop an allergy and will have to avoid eating certain foods e.g. nuts or eggs. Symptoms of allergies include severe skin rashes, eczema, This is converting primary processed foods into other 17. Secondary diarrhoea and even anaphylactic shock. food products e.g., flour into biscuits/pastry/cakes or milk Processing Many religions have dietary rules that can affect their choice of food. They may made into cheese/cream. have to choose or avoid foods depending on their religious beliefs and principles.

	СЗ	Quantitative Chemistry	
	Key word	Definition	
1	Mole	Chemical amounts are measured in moles. The mole is the unit for amount of substance.	Avogadro's Number 6.02×10^23
2	Conservation of mass	The law of conservation of mass states that no atoms are lost or made during a chemical reaction, so the mass of the products equals the mass of the reactants.	01.7g 00.2g 01.9g
3	Concentration	The amount of substance (e.g., the mass) in a certain volume of a solution.	$concentration \ in \ g/dm^3 = rac{mass \ of \ solute \ in \ g}{volume \ in \ dm^3}$
4	Actual yield (T)	The amount of product actually produced by a reaction.	
5	Atom economy (T)	The measure of the amount of starting materials that end up as useful products.	Calculation of Atom Economy atom atom economy mass of atoms mass of atoms mass of atoms in desired product X 100% mass of atoms in reactants

2 of 3 CHEMISTRY

	C4	Chemical Reactions	
	Key word	Definition	
1	Acid	Acids produce hydrogen ions (H ⁺) in aqueous solutions. They have a pH range of 0-6.	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
2	Alkali	Alkalis produce hydroxide ions (OH ⁻) in solutions. The have a pH range of 8-14.	acidic neutral alkaline
3	Displacement	A chemical reaction in which a more reactive element displaces a less reactive element from its compound.	potassium most reactive K
			sodium Na calcium Ca magnesium Mg aluminium Al
			carbon C zinc Zn
			tin Sn lead Pb hydrogen H
			copper Cu silver Ag
			gold Au platinum least reactive Pt

4	Oxidation Reduction	A reaction involving the gain of oxygen. Oxidation is the loss of electrons. A reaction involving the loss of oxygen. Reduction is the gain of electrons. Reduction with carbon: Metals less reactive than carbon can be extracted from their oxides by reduction with carbon.	HT: OILRIG e.g. 2HCl + Mg \rightarrow MgCl ₂ +H ₂ Magnesium is oxidised Mg \rightarrow Mg ²⁺ +2e ⁻
6	Electrolysis	The splitting up of an ionic compound using electricity. The electric current is passed through a substance causing chemical reactions at the electrodes and the decomposition of the materials.	Cathode (-ve) Anode (+ve) • Negative non-metal ion • Positive metal ion

1 of 1 COMPUTER SCIENCE

Algorithms						
1	Pseudo Code	Textual based algorithm				
2	Flow Chart	Graphical based algorithm using symbols				
3	Start/ Stop Symbol					
4	Decision Symbol					
5	Input/Output Symbol					
6	Process Symbol					

	Algorithms – Searches					
1	Binary Search	A search algorithm that finds the position of a target value within a sorted array. Binary search compares the target value to the middle element of the array				
2	Linear Search	A algorithm for finding a target value within a list. It sequentially checks each element of the list for the target value until a match is found or until all the elements have been searched				
3	Bubble sort	A sorting algorithm that repeatedly steps through the list, compares adjacent elements and swaps them if they are in the wrong order. The pass through the list is repeated until the list is sorted.				

		Networks
1	LAN	Local area network is a computer network that interconnects computers within a limited area such as a residence, school, laboratory, university campus or office building.
2	WAN	A wide area network is a telecommunications network that extends over a large geographic area for the primary purpose of computer networking.
3	PAN	A personal area network is a computer network for interconnecting electronic devices within an individual person's workspace.
4	WLAN	Wireless LAN is a wireless computer network that links two or more devices using wireless communication to form a local area network within a limited area such as a home, school, computer laboratory, campus, or office building
5	NIC	The network interface card (NIC) or network card is the hardware device most essential to establishing communication between computers
6	Network Topology	Network topology is the arrangement of the elements of a communication network.

	Project planning						
1	Task list	A prioritized set of activities you (or your team) need to do to complete a project					
2	Mind map	A mind map is a diagram used to visually organize information.					
3	Mood board	An arrangement of images, materials, pieces of text, etc. intended to evoke or project a particular style or concept.					
4	Contingency plan	A contingency plan is a plan devised for an outcome other than in the usual plan					
5	Gantt chart	a type of bar chart that illustrates a project schedule and how long each task in the project should take					

	Project Evaluation				
1	Feedback	Information about reactions to a product or a person's performance of a task			
2	Stakeholder	A stakeholder is a party that has an interest in a company and can either affect or be affected by the business.			
3	Client	a person or organization using the services of professional person or company.			
4	Improvements	Suggestions on how some thing could be made better			
5	Evaluation	The making of a judgement about the amount, number, or value of something; assessment.			

1 of 5 ENGLISH

	GCSE ENGLISH	LANGUAGE — PAPER 1—EX	(PLORATIONS IN CREATIVE)		Critical Verbs
Reading	Q1: Comprehension	Q2: Language Analysis	Q3: Structural Analysis	Q4: Comparing Writer's Perspective	
Û	₽	₽	₽	ţ	Suggests Conveys
What is the text about? Who are the main characters? Where is it set? What kind of atmospheres are created? How?	Read the section of the extract carefully	Consider the question before looking for evidence. 2+ ideas about the extract = opening statement.	What is the 'journey' of the text? Identify shifts in focus.	Identify the 2 parts of the statement. Write down why you agree with each focus. Is there a reason to disagree? Don't force it!	Symbolises Highlights Conveys
Annotate the focus of each paragraph: action, dialogue, description, charac- ters.	Underline/circle/ highlight information relating to the focus.	Opening statement to inform evidence choice. Remember that evidence support your ideas.	Where do we begin? What is established at the start? Where do we end? What/ who has changed? Turning point/catalyst?	Select and annotate 2-3 moments – focus + con- notations. (3 Step Approach) Refer to introduction. Before using evidence, ex- plain why this moment supports your point. In- clude evidence last.	Portrays Presents Emphasises Represents Demon-
Do not answer any questions until you have read the whole text.	Use the information you have identified to complete the sentenc- es.	,	Each paragraph should in-	Sentence stems: The writer first establisheswhen they choose to focus on It is clear that	strates Perpetuated Evokes Denotes Illustrates
		 What does the language mean? What do we associate with it? What does it suggest in this context? 	Why? Why now? How does it relate to/differ from the pre- vious focus? Try to refer to another sec- tion of the text. Show you are aware of how the whole text links together.	This is established through the writer's use of The writer further develops this ideawhen they choose to focus on	Develops Infers Implies Connotes References Perpetuates Alludes to

ENGLISH 2 of 5

GCSE ENGLISH LANGUAGE — PAPER 2—WRITER'S VIEWPOINTS AND PERSPECTIVES—SECTION A								
Reading	Q1: Comprehension	Q2: Summary of Differences & Similarities	Q3: Language Analysis	Q4: Comparing Writer's Perspective	Conveys			
1	₽		Ţ	1	Connotes			
You will have to read 2 sources, one of which will be a 19 th century text	Read the section of the extract carefully	, ,	Consider the question before looking for evidence, 3 ideas about the extract > opening statement.	Identify the focus of the question Find 3 pieces of evidence in each source and note the writers' perspectives and any important words/language techniques	Develops Denotes			
Look at the source information to de- termine the form	Track the source – the statements occur in order within the text	Read the focus carefully Find 2-3 pieces of evidence	Opening statement to inform evidence choice.	your introduction.	Demonstrate: Establishes			
and purpose of each text		from each source which link to the focus	Remember that evidence supports your ideas.	Write up 3 comparative paragraphs using the fol- lowing structure:	Explores			
Do not answer any	Read the questions	Write 2-3 paragraphs using	Use the '3 Step Approach' to	J 1. Make a point about the writer's perspective for	Evokes			
questions until you have read the <u>whole</u> text.	carefully, some of them will catch you out otherwise	carefully, some of the followi them will catch you starters:	carefully, some of	arefully, some of the follo	the following sentence	support analysis. Use the fol- lowing questions:	 Make a point about the writer's perspective for source A; Name the writer's method and include your 	Highlights
			- In source A the writer states	1)What does the language mean?	evidence; 3. Analyse how your evidence shows the writer's	Infers		
		- From this I can infer from this I can also infer	2)What do we associate with it?	4. Write a comparative point about the writer's	Portrays			
		- However/On the other hand/like wise in source B	3)What does it suggest in this context	perspective for source B;	Presents			
		the writer states	Context	 Name the writer's method and include your evidence; 	Represents			
				6. Analyse how your evidence shows the writer's perspective	Perspective			

1. Context					KS4 MACBETH TOPIC SHEET	4. Key Vocabulary	
	Maright: Shakespeare (April 23 rd 1564- il 23 rd 1616) Macbeth. The plot is partly based on fact. Macbeth was a real 11 th Century king who		2 // 6/		Ambition	A desire to ach	
April 23 rd 1616) Dates: written around 1606		reigned Scotland from 1040-1057.			 Key Characters Macbeth: The eponymous protagonist is the tragic hero of this play. He is both ambitious and 		Having excessi
Published: in 'the First Folio, 1 <u>Era</u> : Jacobean Genre: Tragedy = A play endir		originates fro	Shakespeare's version of the story originates from the Chronicles of Holinshed (a well known historian). The		ruthless. He falls from loyal and respected warrior to a paranoid, tyrannical king, before dying in battle in Act V.		A ruler who ru
suffering and death of the ma Set: Scotland,		play was most likely written in 1606 – the year after the Gunpowder Plot of 1605 –			h: A strong, ambitious and manipulative woman who exerts pressure on sursue him ambition of becoming king by murdering Duncan. Unable to deal with	Corrupt	Acting dishone
Structure: Five Act Play		and reflects t politics.	he insecurities of Jacobean	the guilt of t	nese actions and is driven to madness and suicide.	Patriarchal	A society when
			pondes.		/ Weird Sisters: Supernatural and manipulative beings who seem to be able to ture. They are unearthly and omniscient.	Duplicitous	Lying and bein
The Divine Right of Kings says monarch is not subject to earl		Scotland) car	of England (and VI of ne to the throne in 1603	Banquo: Ma	beth's close friend and ally is astute and loyal. Macbeth sees him as a threat. He	Façade	A false front, n
and that they have the right to from the will of God. It implies	s that only	The play pays	death of Queen Elizabeth I. shomage to the king's	is virtuous, a	is virtuous, admired by audiences, and mistrustful of the supernatural witches.		Having knowle
God can judge an unjust king attempt to depose, dethrone	or restrict his	Scottish lineage. The witches' prophecy that Banquo will found a line of kings is a clear nod to James' family's claim to have descended from the historical Banquo. James was convinced about the reality of witchcraft and its great danger to him leading to witch trials. The Jay is probably			; of Scotland at the beginning of the play. He is a virtuous, strong and respected up as the model of good kingship by others in the play. He is murdered by	Nihilistic	The belief that
powers runs contrary to the w and may constitute a sacrilegi	ous act. The			Macbeth in A	Macbeth in Act 2.		Being very bra
action of killing a king is called is considered a terrible crime.				murdered by	Macduff: A soldier who is loyal to Duncan and is suspicious of Macbeth. His family is murdered by Macbeth's soldiers and he eventually exacts revenge by killing Macbeth. He was born by caesarian section and therefore was "not of woman born". Malcolm: Duncan's son and next in line to the throne. He is described as a good man in the		Things that are
			not written simply to please James, but certainly looks at relevant ideas.				Events being a
Shakespearean Tragedy. Mac of Shakespeare's tragedies an		The Great Chain of Being was a belief in a strict religious hierarchy (see key vocabulary) of all things which was believed to have been decreed by God.		play.		Treachery	Betraying some
specific conventions. The clim in a tremendous catastrophe	ax must end			3. Central	3. Central Themes		The killing of a
death of the main character; t character's death is caused by		This idea was important in Elizabethan and Jacobean beliefs. The chain starts from		The play is about the corrupting power of ambition. Both Lady Macbeth and Macbeth are urged to action by the prophecies of the witches, but they still	5. Key Terminology,	Symbols and De	
flaw(s) (hamartia) yet the chan something the audience can in		demons (fall	God and progresses downward to angels, demons (fallen/renegade angels), stars, moon, kings, princes, nobles, commoners,	tars,	commit their crimes themselves because they want greater power. Their ambition leads them to violence and death.	Motif	A recurring ima best example in
		wild animals, domesticated animals, trees, other plants, precious stones, precious	Kingship and	The play contrasts the kind and wise rule of Duncan, who is described as a virtuous (good) king, with the brutal rule of Macbeth, who quickly becomes	Soliloquy	When a charac aloud to thems	
Conventions of a Shakes			metals, and other minerals.		called a tyrant. The play shows how Macbeth has no divine right to rule and upsets the natural order by killing Duncan.	lambic Pentameter	A line of a play five pairs of syl
A tragic hero who falls from			A hero of status – the		The play subverts the natural order of the world. Macbeth's actions are based on a supernatural belief in a prophecy. It depicts an anarchic world: Macbeth	Foreshadowing	emphasised. e. When a hint or
	tragic hero th them.	nat destroys		Order and Disorder	inverts the order of royal succession; his wife inverts the patriarchal hierarchy; the unnatural world disrupts the natural. The disruption underpins the conflict that is not only external and violent but internal as Macbeth and	Dramatic Irony	When a charac is aware of, so
External conflict – his	xternal conflict – his Internal conflict – there Supernatural elements –			his wife come to terms with what they've done.		words. When someth	
tragedies feature conflict between characters, and	are frequent self-doubt or		Many of Shakespeare's tragedies feature	Appearance Characters in the play are often not what they seem. Lady Macbeth and Macbeth are duplicitous towards Duncan, the witches equivocate (not say	Symbolism	himself is hoar	
always lead to death.	torment.		supernatural influences.	and Reality	what they really mean) and cannot be trusted, Lady Macbeth seeks to manipulate Macbeth.	Aside	When a charac the audience c

4. Key Vocabulary	
Ambition	A desire to achieve something e.g. Macbeth and kingship
Hubris	Having excessive pride or self-confidence
Tyrant	A ruler who rules through fear and violence
Corrupt	Acting dishonestly OR being in a state of decay
Patriarchal	A society where power is in the hands of men
Duplicitous	Lying and being false. Two-faced. Deceitful
Façade	A false front, mask or illusion. Hiding one's true feelings
Prescient	Having knowledge of things before they happen – the witches
Nihilistic	The belief that everything is meaningless
Courageous	Being very brave
Supernatural	Things that are not a part of the natural world
Fate	Events being already decided and out of a person's control
Treachery	Betraying someone's trust
Regicide	The killing of a king

5. Key Terminology, Symbols and Devices					
Motif	A recurring image or idea that has symbolic importance. The best example in Macbeth would be blood.				
Soliloquy	When a character is alone on stage and speaks their thoughts aloud to themselves.				
lambic Pentameter	A line of a play or poem that has ten syllables organised into five pairs of syllables, where the second in each pair is emphasised. e.g. "When you durst do it then you were a man"				
Foreshadowing	When a hint or warning is given about a later event.				
Dramatic Irony	When a character is unaware of something that the audience is aware of, so they don't know the full significance of their words.				
Symbolism	When something symbolises a set of ideas e.g. "The raven himself is hoarse" – raven symbolic of death, supernatural.				
Aside	When a character pauses in a conversation to speak only to the audience or another character, unheard by the rest.				

The Big Ideas	Notes	The Methods	Notes
1. Shakespeare uses the play to demonstrate the terrible consequences of disrupting the natural order . His rule is unnatural and brings only disorder and sickness. His death restores balance.		1. Shakespeare uses blood as a metaphor for guilt through the play. As the guilt increases, the volume of blood increases.	
2. Shakespeare uses the play to demonstrate the consequences of engaging with the supernatural .		 Shakespeare uses apparitions to present the consequences of ungodly behaviour and is ambiguous about whether they are real or imagined. 	
3. Shakespeare uses Macbeth's role as a tragic hero to highlight how vulnerable people are to the destructive temptation of power.		3. Shakespeare's characterisation of Macbeth and Lady Macbeth establishes the idea that ungodly deeds do not go unpunished.	

		GCSE ENGLISH	LITERATURE — AQA	POETRY ANTHOLOGY: POWER AND CONFLICT											
	TE	RMINOLOGY	rhyme	when words or the ends of words sound alike					The	Big I	deas				
line	a line o	f verse; the basic unit of structure	symbolism	use of symbols to represent ideas in literature.		•							ts of	confli	ct
stanza	a group	ing of lines of verse	assonance	repetition of vowel sounds in non-rhyming words		be en					-				
		comparison or contrast. Created by placing	alliteration	repetition of consonant sounds in proximity			•				•	wer is			
juxtaposition	two ent	tities side by side to create dramatic or ironic	sibilance	alliteration of fricative "s", "z", "sh", "f" sounds		poets	•	ore tł	he ide	ea tha	at pov	wer ca	an be		
free verse	a poem	with no fixed form or rhyme scheme	onomatopoeia	when the sound of words match their meaning(s)	corr	uptiv	e.								
blank verse	unrhym	ed lines of, usually, iambic pentameter	personification	inanimate objects are given human qualities				TH	EMES	5 AN	DIDE	AS			
sonnet		een-line poem with a particular metre and	caesura	a pause mid-line due to terminal punctuation	Effe	Pow	Pow	Mer	Ider	Indiv	Pride	Guilt	Anger	Fear	Loss
sonnet		scheme, traditionally about love	enjambment	when the sentence or clause continues over a line or stanza break	Effects of Conflict	Power of Nature	Power of Humans	Memory	Identity	Individual Experience	e	4	er	7	Loss and Grief
dramatic monologue	a poem silent lis	in which the imagined speaker addresses a stener	refrain	a line repeated at the end of a stanza	Conf	Natu	Hum			Exper					Grief
POET		TITLE	retrain	SUMMARY	ā	re	ans			ience					
Percy Bysshe Shelley		Ozymandias	A ruined statue of Ra	meses shows how nature inevitably defeats pride		x	х				x				
William Blake		London		ower restricts and confines people in London		~	x			x	~		х		х
William Wordsworth		The Prelude: Boat Stealing		id is changed by an encounter with nature		x	^	х		x	х		^	x	<u>^</u>
		0				^				^				^	
Robert Browning		My Last Duchess	•	es the infidelities of his previous wife with a suitor			х	х	х		x				
Alfred, Lord Tennyson		The Charge of the Light Brigade	A patriotic account o	f the doomed charge of 600 light cavalry in Crimea	х				х		х				
Wilfred Owen	I	Exposure	A soldier's experienc	e standing sentry in the winter of World War One	х	х									х
Seamus Heaney	5	Storm on the Island	A political allegory of	"the Troubles" as islanders preparing for a storm.		х	х							х	
Ted Hughes	I	Bayonet Charge	An imagined explorat	ion of a soldier's participation in a bayonet charge	х					х				х	
Simon Armitage	I	Remains	A soldier reflects on a	nd justifies his killing of a looter; PTSD	х			х		х		х			
Jane Weir	I	Poppies	A mother reflects and	I mourns the loss (ambiguous) of her son	х			х	х	х				х	х
Carol Ann Duffy	1	War Photographer	A photo-journalist tri	es to reconcile conflict with society's apathy	х			х		х		х	х		
Imtiaz Dharker	-	Tissue	An exploration of ide	ntity construction with history, culture and society		х	х		х						
Carol Rumens	-	The Emigrée	A refugee reflects on	their isolation and sense of identity as an outsider				х	х	х					х
John Agard	(Checking Out Me History	A reflection on cultur	e and identity through omitted historical figures			х	х	х				х		
Beatrice Garland	I	Kamikaze	A reflection on the im	pact of conflict and shame/honour within family		х	х	х	х	х					х

R064. Learning Outcome 2. Understand what makes a product financially viable

Fixed Costs (FC)	Costs that do not change with output. For example rent, loan repaym	ients, insurance, salaries.					
Variable Cost (VC)	Costs that vary directly with the level of output. For example raw mat	sts that vary directly with the level of output. For example raw materials, packaging.					
Total Variable Cost (TVC)	The variable cost per unit multiplied by the quantity produced. TVC	= VC x QTY					
Total Cost (TC)	Addition of all business's costs for a specific level of output. TC = TVC	+ FC					
Revenue (R)	The money a business earns from selling goods or providing a service						
Selling price (SP)	The amount you sell each item of your good or service for. NEVER ref	er to this as cost.					
Total Revenue (TR)	The total amount of money earned at a specific level of sales. TR = SP	x number of sales					
Profit (P)	The difference between your revenue and costs. If the difference is p	ositive you have made a profit.					
Loss (L)	The difference between your revenue and costs. If the difference is n	egative you have made a loss.					
Profit calculation	Profit = TR - TC						
Break even (BE)	The point at which a business makes neither a profit nor a loss. TR and TC are equal. It can be shown on a break even graph or calculated using a formula. Break even is <u>ALWAYS</u> a quantity and <u>NEVER</u> a <u>£</u> . You will <u>lose 1 mark</u> if you put a £ in the front of your answer	3500 3000 - Fixed costs 2500 - Total cost Total revenue 1500 - Break-even point					
Break even calculation	You will be given this formula in the exam but you must know how to apply it. BE = FC / (SP- VC)	500 500 500 500 500 500 500 500 500 500					
Contribution	The amount left over after Variable costs have been subtracted from sales revenue. SP-VC	0 100 200 300 400 500 600 Units					
Margin of safety (MOS)	The difference between forecasted sales and the breakeven point (w	here forecasted sales are greater than BE point)					

R064. Learning Out	tcome 5. Understand factors for consideration when starting a business
Sole Trader	A business owned and controlled by 1 person
Partnership	A business with 2 or more owners. A partnership agreement should be drawn up
Franchise	The owner grants a licence to another businessperson to trade using their brand or idea
Franchisor	The owner of the original business who grants franchise licences
Franchisee	The owner of a business who uses a licence to operate their business under an existing brand name
Private Limited company	A business owned by shareholders. Shares can only be sold to family and friends
Public limited company	A business owned by shareholders. Shares are sold on the stock exchange to the anyone who wants to purchase them.
Shareholder	Someone who purchases a share of ownership in a business and has part ownership to the value of the share they have
Unlimited Liability	The business owner is liable for ALL of the debts of the business. This may mean they have to use personal assets to pay
	business debts.
Limited Liability	The business owners (shareholders) are liable for the debts of the business up to the value of their investment.
HMRC	Her Majesty's Revenue and Customs. The department which collects tax on behalf of the Government
Personal savings	Your own personal money that you use to invest in a business
Loan	When you borrow money from a financial institution. You pay interest back on the loan.
Crowdfunding	A group of investors are asked to put money into a venture. If the whole amount is not raised all monies are returned.
Grant	Money is given to a business to start up. Does not have to be repaid
Business angel	A wealthy entrepreneur who provides a business with a sum of money in return for a proportion of the business

R064. Learning Outcome 6. Understand different functional activities

Human Resources	Looks after people including t	heir wellbeing, training needs.	Hires new workers.	
Operations	Looks after the production pro	ocess and day to day running of	the business	
Finance	Controls the money. Prepares	all financial documents		
Marketing	Promotes or advertises the bu	usiness. Carries out market rese	arch	
4Ps	Product – what you sell	Price – how much you sell it for	Place – where you sell it	Promotion – how you make customers aware of your
				business

Α	General Opinions	
1	Je dirais que	I would say that
2	Autant que je sache	As far as I know
3	Je crois que	I believe that
4	Selon	According to
5	J'ai horreur de/d'	I hate
6	Je ne supporte pas	I can't stand
7	m'intéresse	interests me
8	m'ennuie	bores me
9	m'embête	annoys me
10	n'est pas mon truc	isn't my thing
в	Negatives	
1	ne pas	Don't
2	ne jamais	Never
3	ne personne	Nobody
4	ne rien	Nothing
5	ne que	Only
6	ne plus	No longer
С	Adverbs	
1	Normalement	normally
2	Généralement	Generally
3	D'habitude	Usually
4	Totalement	Totally
5	Finalement	Finally
6	Fréquemment	Frequently
7	Évidemment	Obviously
8	Regulièrement	Regularly
9	Seulement	Only
10	Facilement	Easily
11	Absolument	Absolutely

N

			•		
rea	ir 10 French K	nowledge Org	anise	er Holidays	& Jobs
D	Connectives		F	Si clauses	
1	Par contre	However	1	Si j'étais riche	If I was I rich
2	C'est à dire	That is to say	2	Si j'avais le pouvoir	If I had the power
3	Donc	So/thus/therefore	3	Si j'avais le choix	If I had the choice
\$	Ainsi que	As well as	4	Si j'avais plus d'argent	If I had more money
5	(Mal)heureusement	(Un)fortunately	5	Si c'était possible	If It was possible
5	Néanmoins	Nevertheless	6	J'aimerais	I would like
7	À l'autre côté	On the other hand	7	Je changerais	I would change
3	En revanche	However	8	Je voudrais	I would like
9	Même si	Even if	9	II y aurait	There would be
10	Sinon	If not	G	Opinions In Different Tense	
1	Car/Parce que/Puisque	Because	1	C'est	It is
12	Également	Equally	2	C'était	It was
13	Malgré	Despite	3	Ce sera	It will be
14	Malgré cela	Despite that	4	Ce serait	It would be
15	Sans doute	Without a doubt	5	Ça va être	It is going to be
16	Peut-être	Perhaps	6	Ce n'est pas	It isn't
	High level structures		7	Ce ne sera jamais	It will never be
	Pour que je puisse	So that I can	н	Describing A Photo	
2	Bien que je sois	Although I am	1	Dans la photo	In the photo
3	Bien que ce soit	Although it is	2	llya	There is/There are
1	Il faut que je fasse	I have to do	3	Je peux voir	l can see
5	Il faut que je sache	It's necessary that I know	4	Un homme	A man
5	Bien que j'eusse eu l'intention de +infinitive	Although I had had the intention of	5	Une femme	A woman
7	Je ne pense pas que ce soit	I don't think that it is	6	Des enfants	Some kids
3	Pour que nous puissions	So that we can	7	Qui sont en train de +inf	Who are +infinitive verb
			8	Il me semble que	It seems to me that
			9	La personne semble	The person seems

Build knowledge and confidence to be a determined and competent linguist via an ambitious curriculum that builds on and develops prior knowledge

	Holiday	ys		Year	10 Fre	ench Kno	wledge	e Orga	niser		Jo	bs	
1	Talking About Holidays			J	Holiday Ad	ctivities & Tenses			к	Introducing F	uture Plans		
1	Je vais	l go		1	Normalem	ent	Normally		1	Dans le futur		In the future	
2	Je suis allé(e)	I went		2	Je visite		I visit		2	Lorsque je se	rai diplômé(e)	When I have	a degree
3	Je voudrais aller	I would like	to go	3	Nous visite	ons	We visit		3	Quand je sera	ai adulte	When I am ar	n adult
4	J'irai	I will go		4	Je fais		l do		4	Après avoir q	uitté le collège	After having	eft school
5	En France	To France		5	Nous faiso	ons	We do		5	Je voudrais ê	tre	I would like to	ə be
6	En Espagne	To Spain			Je mange		l eat		6	Je veux être		I want to be	
7	En Allemagne	To Germany	y	6	Nous man	geons	We eat		7	J'aimerais êti	e	I would like to	o be
8	Au Portugal	To Portugal		7	Je me bror	nze	l tan		8	J'ai envie de/	d'	I want to	
9	Au Pakistan	To Pakistan	1	8	Nous nous	s bronzons	We tan		9	J'ai l'intentior	n de/d'	I intend to	
10	Aux États-Unis	To the US		9	L'année de	ernière	Last year		10	Je n'ai aucun	e intention de	I have <u>no</u> inte	ntion od
11	Aux Pays-Bas	To the Neth	erlands	10	J'ai visité		I visited		11	J'espère dev	enir	I hope to bec	ome:
12	Je vais rester	I am going	to stay	11	J'ai fait		I did		12	Je rêve de/d'		I dream of	
13	Ma famille est restée	My family s	tayed	12	Je me suis	s réposé(e)	I relaxed		13	Aller à l'unive	rsité/à la fac	To go to univ	ersity
14	Nous restons	We stay		13	L'année pr	rochaine	Next year		14	Faire un appr	entissage	To do apprentice	
15	À la campagne	In the coun	tryside	14	Je visiterai	i	I will visit		14	Faire du béné	volat	To do volunta	ary work
16	À la montagne	In the mour	ntains	15	J'irai		I will go		15	Prendre sabba	une année tique	Take a gap ye	ear
17	Au bord de la mer	By the sea		16	Je ferai		I will do		16	Travailler cmr	ne	To work as	
	itional tense		LU	Jseful Struct	tures								
eg je rega	a conditional tense to say "would" derain = I would watch ture stem and add the imperfect tens	-		lya		There is		N	Jobs				
je regorder tu regorder	als nous regarderie	8768		y aura		There will be		1	Avocat(e)		Lawyer		
R/elle (on ne				y avait		There was		2	Comptable	e	Accountant		
vouloir * je	voudrais étre = je serait			On peut + inf	initive	You can		3	Professeu	r	Teacher		
tore = je te								4	Acteur/Ac	trice	Actor/Actres	s	
	'in' or 'to' with countries				tives to Talk A			5	Infermier/I	Infermière	Nurse		
J'habite Je vais	e = I live en vacances = I go on holida	ly l		Divertissant		Entertaining		6	Médecin		Doctor		
en + ler	ninine country eterre/France/Belgique			Gratifiant		Rewarding		7	Ingénieur/	ingénieure	Engineer		
au + ma	asculine country de Galles / Royaume-Uni		3 E	nrichissant		Enriching							
aux + p	lural country ts-Unis/Pays-Bas				Bu	ild knowledg	-			ermined and and develop		5	n

Build knowledge and confidence to be a determined and competent linguist via an ambitious curriculum that builds on and develops prior knowledge

GEOGRAPHY 1 of 3

Y10 Climate Change

1.	Global atn	nospheric circulation (GAC)
High	Pressure	Air sinking towards the earth's surface making conditions drier.
Low	pressure	Air rising from the earth's surface making conditions wetter.
	oal ospheric Ilation	The movement of air in the atmosphere.

4.	Human causes	s of climate change
Fossil fuels		A natural fuel such as coal or gas, formed in the geological past from the remains of living organisms.
Carbon emissions		The release of carbon into the atmosphere (a main contributor to climate change).
The greenho	use effect	The trapping of the sun's heat in the atmosphere.
Deforestation	I	Cutting down large areas of trees.

-			1	5.	
2.	2. Evidence of climate change				
Climate		The weather conditions prevailing in an area in general or over a long period.		Pe	
Qua peri	iternary od	A period of geological time from about 2.6 million years ago to present (characterised by the appearance and development of humans).		ca CC en s	
Inter-glacial		A warmer period of time with less ice, lasting approximately 10,000 years between two glacial periods.			
Ice (cores	These are made up of layers of ice, one layer is formed each year. By analysing the data trapped in the layers, scientists can tell what the temperature was each year.		Co ree	
Tree	e rings	As the tree grows a new ring is formed each year. These are thicker in warmer, wet conditions. They can go back 10,000 years.			

5.	Effec	sts
Per capita CO2 emission s		How much CO2 is released in the atmosphere per year.
Cora reef		A natural habitat for many animals and plants in shallower waters near to coastlines.

7.	Future	projections for climate change
Population growth		Increase in the amount of people on the planet.
Future projection		A prediction of what will happen in the future.
Thermal expansion		The increase in the volume of water as the temperature increases.



3.	Natural c	causes of climate change			
Milankovitch		A scientist who came up with the orbital change theory.			
Atmosphere		Is a mixture of nitrogen (78%), oxygen (21%), carbon dioxide (0.04%), methane and other gasses (1%) that surrounds Earth. High above the planet, the atmosphere becomes thinner until it gradually reaches space.			
Sunspots		Cooler areas of the sun's surface.			

6.	Clin	Climate graphs				
Biome		A large-scale ecosystem defined by abiotic factors e.g., climate, soils, vegetation.				
Climate graph		A combined bar and line graph that displays temperature and precipitation data.				

Y10 Tropical cyclones

1.	Distribution of tropical cyclones			
Hurricanes		Form over the Atlantic from June to November.		
Cyclones		Form over the Indian Ocean from November to April.		
Typhoons		Form over the Pacific ocean from May to October.		

2.	Hazards			
Z .	nazaros			
Intense rainfall		Thick, dense clouds cause prolonged and intense rainfall, contributing to river flooding.		
Landslides		soil becomes saturated in areas with steep relief, making the ground heavier and causing it to slump suddenly.		
Primary effect		Direct impacts of an event e.g. people killed, injured, or buildings collapse.		
Secondary effect		The indirect impacts of an event, usually occurring in the weeks, hours, months after the event e.g. the outbreak of disease from contaminated water.		
GIS		Geographical Information system.		

3.	Responses				
Immediate response		Any form of immediate action taken to save lives, prevent human suffering.			
Long term res	sponse	those that go on for months and years after a disaster. It involves constructing destroyed houses, schools, hospitals, etc.			



Y10 Development dynamics

3.

1.	Countr	y classif	y classification				
			ly has lots of money, many s and a high standard of living.				
			uite poor compared to others, ervices and a lower standard of				
The E line	Brandt		ginary line dividing the world into bed and developing countries.				
2.	2. Measuring development						
Gross Domestic Product per capita (GDP per capita)		apita	The total number of goods and services sold by a country, divided by its population.				
Infant mortality		у	The number of babies that die per 1000 before their first birthday.				
Life expectancy			The average age you are expected to live to in a country.				
Literacy rate			The % of people that can read and write.				
People per doctor		octor	The number of people to one doctor.				
Hum: Index	an Devel ‹	opment	Combines GDP per capita, life expectancy and education.				

TNC (transnational corporation) A company that operates a over the globe e.g. Shell Gas compa Consumption The usage of something e.g. Energy council umption. Cash Crops/Primary products: Raw materials- usually from farming or mining. Infrastructure The basic physical and organizational		Infant mortality The number of babies that die per 1000 before their first birthday.				
1000. Natural increase The difference between birth and death rates. 5. Global inequalities Inequality Something that is unequal. TNC (transnational corporation) A company that operates a over the globe e.g. Shell Gas company Consumption The usage of something e.g. Energy coumption. Cash Crops/Primary products: Raw materials- usually from farming or mining. Infrastructure The basic physical and organizational		Birth rate				
and death rates. 5. Global inequalities Inequality Something that is unequal. TNC (transnational corporation) A company that operates a over the globe e.g. Shell Gas company Consumption The usage of something e.g. Energy coumption. Cash Crops/Primary products: Raw materials- usually from farming or mining. Infrastructure The basic physical and organizational		Death rate				
Inequality Something that is unequal. TNC (transnational corporation) A company that operates a over the globe e.g. Shell Gas compa Consumption The usage of something e.g. Energy council units of the usage of something e.g. Energy council to the units of the units		Natural increase				
TNC (transnational corporation) A company that operates a over the globe e.g. Shell Gas company Consumption The usage of something e.g. Energy company Cash Crops/Primary products: Raw materials- usually from farming or mining. Infrastructure The basic physical and organizational	5.	Global inequalities				
over the globe e.g. Shell Gas compa Consumption The usage of something e.g. Energy co umption. Cash Crops/Primary products: Raw materials- usually from farming or mining. Infrastructure The basic physical and organizational	Ine	quality		Something that is unequal.		
of something e.g. Energy coumption. Cash Crops/Primary products: Raw materials- usually from farming or mining. Infrastructure The basic physical and organizational	TNC (transnational corporation)		on)	A company that operates all over the globe e.g. Shell Gas company		
farming or mining. Infrastructure The basic physical and organizational	Consumption			of something e.g. Energy cons		
and organizational	Cash Crops/Primary products:		:	Raw materials- usually from farming or mining.		
(e.g. buildings, roads,	Infrastructure			and organizational structures and facilities (e.g. buildings, roads, power supplies) needed for the operation of a society		

The Demographic Transition model

4.	Population Pyramids			
Dependent population		Those who rely on the economically active for support e.g. the young and elderly.		
Economically Active		Those people who work, receive a wage and pay tax.		
Population structure		The number/ proportion of people in each age range, for each gender.		

6.	Factors influencing development				
Development	How rich or poor a co	untry is compared with other areas.			
Factors which e	ncourage developmer	t: Factors which hinder development:			
 A large coastling Availability of r coal, fertile soil et 	natural resources e.g. oi	 Colonialism may have led to resources being exploited from the country. The country is landlocked, making trade difficult. Few natural resources to power industry. A harsh climate, so cannot grow crops reliably. 			
7. What	is aid?				
Donor	A country that g	ives aid to another country.			
Recipient	A country which	A country which receives aid.			
Bilateral	International aid	International aid given by one country to another.			
Multi-lateral		Aid given by NGOs (Non-Government Organisations) like the Red Cross or Oxfam.			
Short term aid	Aid given to sup earthquake.	Aid given to support a country following a crisis e.g. after an earthquake.			
Long term aid		Aid given over a prolonged period of time to support a country's development e.g. teaching farmers different farming techniques.			
5. Aid	- advantages/ disadva	Intages			

5.	Aid - advantages	s/ disadvantages			
Advantages		 People learn new skills e.g. improved farming techniques; so become independent Can save lives after a natural disaster e.g. supplying clean water, food and medicines. Simple technology e.g. water pumps, are easy for the locals to maintain. 			
Disadvantages		 Countries can become dependent upon aid, causing problems if it is removed. Corrupt governments can sell the aid on, so it does not reach those in need. The recipient can end up in debt if loans or deals are made. 			

Y10 - Historic Environment - The British Sector of The Western Front 1914-1918 1 Vaccination Using a dead, inactive or milder disease to improve people's immunity to more serious diseases. Alexis Carrel 1 Alexis Carrel 1 Alexis Carrel 2 Alexis Carrel 1 Alexis Carrel 1 Alexis Carrel 2 Hugh Owen Thomas Invented the Carrel-Dakin method to use a suystrubes to keep chemicals flowing through wounds to fight infection. 1 Vaccination Using a dead, inactive or milder disease to improve people's immunity to more serious disease. 2 Hugh Owen Thomas Invented The Thomas Splint which to fight infection. 1 Vaccination Using a dead, inactive or milder disease to improve people's immunity to more serious disease. 3 William Rontgen Discovered X-Rays in 1895 which could find bullets and shrapnel in soldiers. By 1916 most Casualty Clearing stations had X-Rays 5 DNA a gene for eye colour and hair colour etc eason why they are feeling sick or ill. 7 Cancer Finding out what is wrong with someone or the reason why they are feeling sick or ill. 7 9 Industrial Era 10 Modern Era Pistorical time period stretching from c1700- c1900 when people moved more into cities. 1914 1916 Summer 1916 Steel helmets widely used by British soldiers to prevent head injuries. 1917 Surgeon Harvey Cushing invented a specialist areas for plastic surgery. 1918 Ital, Antosing Yeap Alexies for plastic surgery. 1918 Ital, Antosing Yeap Alexies for plastic surgery.<		History	v – Knowledge O	roaniser		K	(ey terms		Definition		
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Key Individuals 2 Germs Dials failed in the source for proved they caused disease. 1 Alexis Carrel and Henry bakin Invented the Carrel-Dakin method to use a suysttubes to keep chemicals flowing through wounds to fight infection. 3 Antiseptic Using chemicals to fight infection and stop germs (especially bacteria) getting into the body. 2 Hugh Owen Thomas Invented The Thomas Splint which reduced the death rate for soldiers with a broken femur (thigh bone) from 80%-20%. 4 Anaesthetic Chemicals to put people to sleep or make them feel less pain during surgery eg Chloroform. 3 William Exovered X-Rays in 1895 which could find bullets and shrapnel in soldiers. By 1916 most Casualty Clearing stations had X-Rays 7 Cancer Where your cells multiply too quickly without doing their job. Can be caused by smoking, drinking etc reason why they are feeling sick or ill. 4 Richard Discovered that sodium citrate could be added to blood to prevent it from clotting so more blood transfusions could be carried out. 9 Industrial Era (1900 when people moved more into cities. 1 Mudernils form asreginils arreas for plastic surgery. Summer 1916 Steel helmets widely used by British soldiers to prevent head injuries. July-Nov 1916 The Somme. 1917 Surgeon Harvey Cushing invented a surgical magnet to extract bullets from head wounds. 1918 Link between lice and trench form only 9000 in 1914.						Tuccinanion		<u> </u>	<i>i</i>		
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	History	- Knowledge Organis	20		Key terms	Definition
History - Knowledge Organiser 910 - Anglo-Saxon and Norman England			1	Earldoms	The different areas the kingdom of England was divided up into eg Northumbria, Wessex etc	
c1065-1066			2	House	An old word for family eg 'House Godwin' means the Godwin family.	
		Key Individuals		3	Housecarls	Full-time professional soldiers who normally fought
1		Harold Godwinson's Dad v			Flouseculis	with double-edged swords as they were expensive.
	Earl Godwin		echnically richer than Edward the onfessory. Forced into exile and	4	Fyrd	Part-time peasant soldiers who normally fought with their spears as they required less metal.
	then returned					An official visit on behalf of a leader eq Harold
	Tati	Harold Godwinson's younger		5	Embassy	Godwinson went on an embassy to Normandy.
2	Tostig Godwinson	brother. Joined Hardraad he lost Northumbria, Kille			Archbishop of	Head of The Church in England. This was Stigand
	Codwinson	Battle of Stamford Bridg		0	Canterbury	who crowned both Harold and William in 1066.
		Edwin was Earl of Mercia	ed Earl of	7	Weregild	Literally 'man gold'. Compensation paid if you killed
3	Edwin and	Morcar was named Earl o			5	someone to stop a family blood feud. Horse soldiers, William had approximately 2000 of
	Morcar	Northumbria after the ri against Tostig Godwinson			Cavalry	these at The Battle of Hastings.
		Archbishop of Canterbur		9 The Witan		Group of the most powerful Anglo-Saxon earls and
4	Stigand	head of The Church in En		9 The Will	The writin	thegns whose decided who should be king.
1.	Crigana	crowned Harold Godwinso		10) Succession	Inheriting a title from someone who held it before
	later William the Conqueror		or			them eg Harold becoming king after Edward.
1043 Edward the Confessor becomes king as Aethelred's only surviving son. 1053 Earl Godwin returns with an army and is restored to his lands and titles. 1055 Earl Godwin dies and his Earldom is inherited by Harold Godwinson			62 Harold Godwin defeats Gruffyd a lywelyn, the Wels king and presents dward the Confess with his head.	h Harold Godwinson is crowned king. Edward 14/10/1066		
c1043						c1066
w	lliam he can	Edward. The North	Tostig Godv comes Earl umbria afte n of Earl Siv	of er the	1065 Ris against Tos Northum Tostig ex	stig in Viking Hardraada Stamford bria. and Tostig defeat Bridge. Harold

1 of 1 HEALTH AND SOCIAL CARE

Values of care

(Early years & education settings)

- 1. ensuring Confidentiality
- 2. encouraging children's Learning & development
- 3. practising Anti-discrimination
- 4. working with Parents/guardians & families
- 5. working with other **P**rofessionals
- ensuring Equality of opportunity
- 7. valuing Diversity
- keeping children Safe, maintaining a healthy & Safe environment
- 9. ensuring the **W**elfare of the child is paramount

Values of care

(health & social care settings)

- 10. Promoting equality & diversity
- 11. Maintaining confidentiality
- 12. Promoting right & beliefs

Applying the values of care ...

- 13. Ensures standardisation of care
- 14. Improves the quality of care
- 15. Provides clear guidelines (re inform & improve practice)
- 16. Maintains or improves quality of life

Effects on individuals if not applied (effects can be interrelated too)
PIES

PHYSICAL – such as effects on body if not receiving appropriate care (e.g. coeliac not being provided with gluten-free food = digestive health will deteriorate).

INTELLECTUAL – though processes such as thinking skills understanding, learning, reasoning, comprehension & knowledge (e.g. child with learning difficulties isn't given support & learning activities matched to their special needs, their learning won't progress).

EMOTIONAL – relating to an individual's feelings (e.g. expectant mum would be upset, angry & frustrated if told she couldn't have a home birth without any reasons or the chance to ask questions).

SOCIAL – an individuals' relationship with others (e.g. staff at primary school do nothing about children laughing at child who has birthmark on face & that child may lack friends because they become isolated, withdrawn & perhaps refuse to attend.

EXCEPTIONS to CONFIDENTIALITY

17. Intends harm to themselves - e.g. suicide; mental health problems (possibly schizophrenia) & threaten to, or are, harming themselves.

18. Intends harm to others - e.g. threatens to seriously injure someone (e.g. domestic violence; child sex abuse); has mental health problems (e.g. schizophrenia) & where their behaviour puts others at risk of harm.

19. Is at risk of harm from others - e.g. suspected child sex abuse; a case of domestic violence.

20. Is at risk of carrying out a serious offence - e.g. terrorism; drug dealing, violent assault.

PHYSICAL EFFECTS	INTELLECTUAL EFFECTS	EMOTIONAL EFFECTS	SOCIAL EFFECTS
Pain	Lack of skills development	Low self-esteem and/or depressed	Withdrawn
Existing illness gets worse	Lack of knowledge	Low self- confidence	Isolated
Bruising	Lack of progress	Disempowered	Excluded
Cuts & grazes	Loss of concentration	Upset and/or angry	Become antisocial, uncooperative
Broken bones and/or injury	Losing interest	Loss of trust, feeling unsafe	Refusal to use the service
Dehydration	Lack of stimulation	Frustrated, humiliated	Lack of friends
Malnutrition	Will not achieve potential	Frightened	Develop behaviour problems

LITERACY 1 of 2

Can I write in paragraphs?

The **TIPTOP** rule

You move onto a new paragraph when you change time, place, topic or person.

- 1. I always start an essay with an introduction which addresses the question.
- 2. I finish an essay with a conclusion to summarise the main points of my argument and to address the question again.
- 3. I use connectives in each paragraph to link my ideas and to put them in a logical order.

Furthermore	But	Meanwhile
Whereas	Since	Nonetheless
Nevertheless	Yet	However
Alternatively	Therefore	Although
Consequently	Besides	Moreover

Have I used the correct grammar?

I am aware that I must use language that is appropriate to my reader.

No slang that lesson was bangin'

No informal language I'm gonna do my homework now

Other things to consider: ✓ I am clear about the purpose of this piece of writing ✓ I know who my audience is

✓ I will use a suitable layout and text type

I am proud of my work because...

I have written clearly so that my reader can

understand my writing easily.

- I have checked my spelling and corrected any errors.
- I have used full sentences with a subject and a verb.
- I have used correct punctuation and grammar.
- I have paragraphed my work using TIPTOP.
- My writing is suitable for the person I am writing for

Can I spell familiar words accurately?

Common contractions

We must use an apostrophe to replace any letter(s) we have left out.

Can I use different sentence types?

Simple sentences: contains a subject and a verb and can contain an object

- Sarah likes to read in the library.
- Tom enjoys reading at home.

Compound sentences: joins two simple sentences using the connectives: for, and, nor, but, or, yet, so. • Sarah likes to read in the library but Tom prefers to read at home.

Complex sentences: A complex sentence contains a conjunction such as because, since, after, although, or when .

- Because Robert felt tired, he only studied for an hour.
- Although the rain had stopped, the pitch was still water-logged.
- Paul enjoys Music, however, he is more proficient

Homophones

I have checked that I have not mixed up my homophones.

affect/effect bare/bear brake/break buy/by grate/great hair/hare hole/whole hour/our knight/night know/no meat/meet

one/won passed/past peace/piece practice (n)/practise (v) read/red sea/see sight/site to/too/two wait/weight weak/week wear/where witch/which

2 of 2 LITERACY

Basics:

□ Every sentence must start with a capital letter. □ Every sentence must finish with some form of punctuation: .?!

□ Proper nouns need capital letters. These are unique people, places or things e.g. there are many cities so 'city' doesn't take a capital letter. However there is only one London, therefore it takes a capital letter.

□ When writing titles of works such as books, films or plays:

Capitalise the first word

- Capitalise any main/important words
- Don't capitalise minor words such as 'and',

'of' or 'the' e.g. The Sound of Music, The Wizard of Oz, Harry Potter and the Goblet of Fire

U When writing speech:

✓Go to a new line when a different person speaks e.g. "Good morning" said the Headteacher. "It's the afternoon!" replied the student.

✓ Each person's speech is marked with speech marks e.g. "Walk on the left" said Mr Mathews.

Can I spell accurately?

1. Sound out the word

2. Think about how it looks

3. Think about a similar word

4. Is there a memory sentence for this word? (e.g. big elephants cannot always use small exits)

5. Find the word in a list –

- Key words list
- · Frequently used words list
- Your own word bank

7. Ask a friend or teacher

8. To learn it: look, cover, write , check

9. Once you've solved it, add the correct spelling

to your own word bank.

Can I use punctuation?

The Apostrophe I always aim to use apostrophes correctly.

There are two main reasons why we use apostrophes: for possession and to replace a letter or letters

Note: Apostrophes are NEVER used to denote plurals

Full stop	- 10	indicates that a sentence has finished
Comma	*	indicates a slight pause in a sentence, separates clauses in a complex sentence and items in a list
Question mark	7	goes at the end of a question
Exclamation mark	4	goes at the end of a dramatic sentence to show surprise or shock
Apostrophe	*	shows that letter(s) have been left out or indicates possession
Speech marks		indicate direct speech, the exact words spoken or being quoted
Colon	4	introduces a list, a statement or a quote in a sentence
Semicolon	4	separates two sentences that are related and of equal importance
Dash / hyphen	-	separates extra information from the main clause by holding words apart
Brackets	0	can be used like dashes, they separate off extra information from the main clause
Ellipsis	-	to show a passage of time, to hook the reader in and create suspense

Apostrophe for Possession

(To show that something belongs to another)

If a single thing/person owns anything, add an

- apostrophe + 's'.
- •The dog's bone
- •The boy's homework
- Jones's bakery
- Yesterday's lesson
- However, if it is plural (more than one), an
- apostrophe comes after the 's'.
- The dogs' bones
- •The boys' homework
- Joneses' bakeries (lots of Jones families)
- •Many websites' content is educational

There/ their/ they're

Note: special care must be taken over the use of there, their and they're as they sound the same but are used quite differently:

There shows position Your seat is over there

Their shows that 'they' own something Their blazers are navy blue

They're is short for they are as in They're revising every day

lts

Note: its, which shows that something owns something (like our, his etc), <u>does not</u> take an apostrophe: the dog ate its bone and we ate our dinner

Your/ you're

Note: special care must be taken over the use of **your** and **you're** as they sound the same but are used quite differently:

- **Vour** is possessive as in this is your pen
- You're is short for you are as in you're coming over to my house

Y10 Mathematics - An ambitious curriculum, rich in skills and knowledge, which prepares you to be future leaders through your learning of problem-solving.

Probability (F/H)			
1.	Probability	How likely something is to happen. Always	
		given as a fraction, decimal or percentage	
2.	Probability Scale	Impossible = 0, Even chance = 0.5 or $\frac{1}{2}$ or 50%,	
	numbers	Certain = 1 or 100%	
3.	Sample Space	Listing all of the possible outcomes from two	
		events, for example flipping a coin and rolling	
		a dice	
4.	Mutually Exclusive	Mutually exclusive events cannot happen at	
	Events	the same time. Events sum to 1.	
5.	Venn Diagrams	Comparing 2 or more sets of data that share	
		some things in common	
6.	Set notation	A – all elements in A	
		A' – all elements not in A	
		B – all elements in B	
		B' – all elements not in B	
7.	Intersection	A \cap B – all the elements in both A and B	
8.	Union	A U B – all the elements in A or B or both	
9.	Tree Diagrams	Used when there are two or more events.	
		Each pair of branches add to 1 (mutually	
		exclusive) To find the probabilities we multiply	
		along the branches	

	Standard Form (F/H)		
1.	Write number in standard form	A way of writing large or small numbers a x 10 ^b	
		1≤ a < 10	

	Simple Interest (F/H)			
1.	Percentage	Means out of 100		
2.	Percentage of an	% = ÷ 100		
	Amount (Non-	10% = ÷ 10		
	Calculator)	5% = halve 10%		
		50% = ÷ 2		
		25% = halve 50%		
3.	Convert percentage to	Decimal = percentage ÷ 100		
	decimal			
4.	VAT	Value Added Tax		
		A tax that is added to goods that you buy		
5.	Income Tax	Tax that you pay from your wages		
6.	Simple Interest	Calculate the percentage amount and multiply		
		it by the number of periods that the money will		
		be invested for.		

Growth and Decay (F/H)			
1.	Growth	Getting bigger	
2.	Decay	Getting smaller	
3.	Appreciation	The value of something increasing	
4.	Depreciation	The value of something decreasing	
5.	Interest Rate	Money that is paid regularly as a percentage,	
		this is usually by a bank when money is saved	
		or borrowed.	
6.	Compound Interest	Interest that gets added regularly (eg. monthly,	
		annually), changes the value of money each	
		time so a new calculation must be completed.	
7.	Annually/per annum	Each year	
Y10 Mathematics - An ambitious curriculum, rich in skills and knowledge, which prepares you to be future leaders through your learning of problem-solving.

	Ratio (Further) (F/H)		
1.	Ratio	How much of one thing there is compared to	
		another, usually written as 3 : 4	
2.	Parts	The numbers in the ratio, 3 parts : 4 parts	
3.	Simplify	Make the numbers smaller, divide by the Highest	
		Common Factor	
4.	Writing a Ratio as a	Each part of the ratio is the numerator, add the	
	Fraction	parts to make denominator.	
		Example 3 : 4 written as a fraction The parts are	
		3 and 4 so these are the numerators 3 + 4 = 7 so	
		the denominator is 7 3/7 and 4/7	
5.	Scale	The ratio between the distance on a diagram and	
		that in real life	

	Further Proportion (Higher only)				
1.	Direct Proportion	As one amount increases, so does another at the			
		same rate, e.g., the number of hours worked and			
		your pay			
2.	Direct Proportion	y = kx,			
	Formula	$y = kx^2$, $y = kx^3$, $y = k\sqrt{x}$ etc			
3.	Inverse Proportion	As one amount increases, another decreases,			
		e.g., the more decorators you have will reduce			
		the time it will take to paint a wall			
4.	Inverse Proportion	$y = \frac{k}{k} = \frac{k}{k} = \frac{k}{k} = \frac{k}{k}$ at c			
	Formula	$y = \frac{1}{x}, y = \frac{1}{x^2}, y = \frac{1}{\sqrt{x}}, etc$			

	Capture/Recapture (Higher only)			
1.	1. Population The whole group that you are looking at, eg. all th			
students in school		students in school		
2.	Sampling	A smaller group that is taken from the population		
3.	Random Sampling	Every member of the population is equally likely to		
		be chosen		

	Recurring Decimals (Higher only)				
1.	Recurring decimal	When a decimal number repeats forever			
		e.g., 0.3333333333333333			
2.	Terminating decimal	A decimal that ends, it has a finite number of			
		digits, e.g., 0.25			
3.	Dot notation	Two dots show the beginning and end of a			
		recurring group of numbers			
		e.g., 0. 3465 = 0.34653465346534653465			
4.	Recurring Decimals	$\frac{1}{9} = 0.11111111 \dots = 0.1$			
	you need to know	$\frac{1}{9} = 0.11111111 = 0.11$			
		$\frac{1}{3} = 0.3333333333 \dots = 0.3$			
		3			
		2			
		$\frac{2}{3} = 0.6666666666 \dots = 0.\dot{6}$			
		3			
		$0.9999999999 \dots = 0.9 = 1$			
		0.777777777777777777777777			
1		1			



BTEC MUSIC Knowledge Organiser – Music Industry

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1				(3)	
venue	a place where a live music	Record Label	co-ordinates the production, manufacture, distribution and marketing of a song	PRS	collects money for music used in live performances
small venue	event can take place pub, club, small theatre/hall	Major Record Label	large label which has most departments in house	MCPS	licenses the composer's copyright for CD's and digita downloads
large venue	arena	Indie Record Label	smaller label, usually focused on a particular style of music	PPL	licenses the right to play sound recordings – eg in pubs, shops
multi-use venue festival	sports stadium outside gig, usually more	music publishing	makes sure songwriters and composers get paid	A&R	looks after the best interest of the artist
sound guality	than one stage how good the music sound	promoter	promoter finds venues, prices the event, publicising it to make	Artist Manager	guides the career of an artis
intimate	due to the equipment performers are close to the	broadcasting	It a success distributing songs to a	PR	generates publicity, promotes the artist
atmosphere touring event	audience plays at different venues	marketing	dispersed audience responsible for identifying	Booking Agent	contacts promoters and venues to get gigs
publicity	around the country letting people know about		opportunities for the song to be heard	Tour Manager	looks after financial and logistical aspects of a tour
Risk Assessment	the event measuring risk and taking	publicise	make the song and artist well known	Transport Hire Company	provides vehicles to carry equipment and people
	steps to minimise them	online marketing	publicising an artist through websites	Sound & Lighting Hire	provides good quality sound and lighting for gigs and
hazard	something which could cause injury or death	high street stores	selling CD's through shops i.e. HMV		tours
Operational Procedures	systems put in place to ensure people are safe	digital download	selling songs through online stores i.e. iTunes	Sound & Lighting Engineer	can be hired to look after the sound and light at a gig

	I think	Science	I can conclude from the data that (we then often follow the format) as increases/decreases,
	In my opinion		increases/decreases
	I agree/disagree with because		The pattern the data shows is
	The answer is because		One key fact from the topic was
Generic	Another way of looking at this is	ART	To further develop my idea, I could In my opinion
History	This links to my next point because The source is a		I have taken inspiration from
	The source was made in	HSC	This is a strength because This is a weakness because
Geography	An example of this is	-	I conclude
	This means that One positive/negative reason is	Maths	is incorrect because
	Overall, I believe that The evidence in the figure/source is		Another way to work this out is The mistake is that
English	The writer first establishes the idea that when he/she chooses to focus on It is clear that This is established/reinforced/developed through the writer's use of		I like because I don't like because I think

2 of 2 ORACY

PE	This is a strength because This is a weakness because I conclude				
IT	I agree/disagree withbecause				
	The answer is because				
	I could have improved my work by				
	Within my performance I				
Performing Arts	I would suggest they to improve their performance,				
	They use these techniques in their work to show				
Music	As I listened to the music I felt				
	This sounds like				
	I would suggest they to improve their performance				
Technology	The design could do with				
	Aspects I found difficult were				
	If I was to do this again I would				

BTEC Tech Award Dance /Component 3

Structure of the Exam

- Activity 1: an ideas log (up to 800 words)
- Activity 2: a skills log (up to 800 words).
- Activity 3: a digital recording of a workshop performance to an audience of between 7 to 15 minutes per group performance of between 5 to 10 minutes.
- Activity 4: an evaluation report (up to 800 words).

Common Misconceptions:

- Describing the narrative of the piece instead of explaining how you have interpreted the brief.
- Not linking your ideas for the piece to the brief.
- Not be specific about how the ideas in your piece meet the requirements of the brief.
- Not linking your ideas to the work of professional practitioners you have studied.

• Not identifying your **individual contribution** to the interpretation of the brief, exploration and development of ideas and planning.

	Key Term	Explanation		Performance types / practitioner style	Definition	Stylistic Features
1	Concept of Performance	What is the piece about and how is this going to be portrayed to the target audience	7	Naturalism (Stanislavski)	A form of theatre that attempts to create a perfect illusion of reality through a range of dramatic and theatrical strategies	The fourth wall. Everyday conversations and style of speaking. Ordinary people. representation of real life that is still theatrically effective.
2	Style of Performance	What form does the piece take (dance / drama / musical theatre)	8	Epic Theatre (Brecht)	A form of theatre that reminded the audience that they were watching theatre; a presentation of life, not real life itself.	Breaks the fourth wall. Direct address Using placards / technology Use of songs or music
3	Purpose of the performance	Why the piece is being created? (to educate, to inform, to entertain, to celebrate, to challenge viewpoints, to provoke, to raise awareness)	9	Verbatim	A form of documentary theatre, it allows theatre makers to explore events and themes through the words of people at the heart of them	 created from the transcription of interviews. based on research. characters often represent a specific, real person.
4	Target Audience	The people you are creating your performance piece for (age range, interest, group)	10	Physical theatre	A form of theatre that puts emphasis on movement rather than dialogue.	Gesture Proximity Movement / no movement
5	Planning and Managing resources	The things you need to create and perform your piece (music, projections, props, rehearsal space, costume, rehearsal schedule)				Mask work Dance work
6	Exploration of ideas	The different way you have experimented with ideas for your piece (mind mapping, researching, structured improvisation story boarding, character exploration)	11	Theatre in education	Theatre in education is used to encourage effective learning in schools.	 designed to stimulate reaction and participation from its small audience, targeting an area for a particular year group in a school's PSHE curriculum. designed for a young audience.
		·	12	Contemporary dance	Contemporary dance is a style of expressive dance that combines elements of several dance genres including modern, jazz, lyrical and classical ballet.	communicates a story through movement. Physical skills Expressive skills Technical skills

	Physical Skills				
	Aspects enabling effective performance				
13	Accuracy	How well the actions are replicated			
14	Alignment	Correct placement of body parts in relation to each other.			
15	Balance	A steady or held position achieved by an even distribution of weight.			
16	Coordination	The efficient combination of body parts.			
17	Control	The ability to start and stop movement, change direction and hold a shape efficiently			
18	Dynamic Range How the dancer moves (fast, slow, aggressive, elegant)				
19	Extension Lengthening one or more muscles or limbs.				
20	Flexibility	The range of movement in the joints			
21	Focus	A central point or focus of attention in the movement space			
22	Isolation	An independent movement of part of the body.			
23	Movement memory Remembering the order of the movements				
24	Posture The way the body is held.				
25	Strength Muscular Power				
26	Stamina	Ability to maintain physical and mental energy over periods of time.			

	Expressive Skills					
		Aspects that contribute to performance artistry and that engage the audience				
27	Projection	Projection The energy the dancer uses to connect with and draw in the audience.				
28	Focus	Focus Use of the eyes to enhance performance or interpretative qualities.				
29	Spatial Awareness Consciousness of the surrounding space and its effective use.					
30	Facial Expressions Use of the face to show mood, feeling or character.					
31	Musicality	The ability to make the unique qualities of the accompaniment evident in performance.				

PHYSICS 1 of 4

P2 Electricity key words

	TE Electricity key words	
1	Electric component	A working part of a circuit e.g., a light
2	Potential difference	Energy transferred per unit of charge, the
		driving force of a circuit
3	Electric charge	The charges within a circuit that can move
		and transfer energy
4	Electric current	The rate of flow of charge in a closed circuit
5	Resistance	The slowing down of electric current by a
		component in a circuit
6	Series circuit	A circuit with only one pathway/loop
7	Parallel circuit	A circuit with two or more pathways/loops
8	Direct current	Current that flows in only 1 direction due a
		fixed potential difference
9	Alternating current	Current that is constantly changing direction
		due to a constantly changing potential
		difference
10	National grid	The system of wires and transformers that
		links power stations to consumers
11	Live wire	The brown wire connected to the national
		grid in domestic appliances
12	Neutral wire	The blue wire that completes a circuit within
		an appliance
13	Earth wire	The striped wire that connects to the earth as
		a safety precaution in metal domestic
		appliances
14	Transformer (T)	A device to increase or decrease the potential
		difference in the national grid.
15	Static charge (T)	The build up of electrons on an insulator
		caused by friction between insulators.
		Creates an electric field around the charged
		object
16	Electric field (T)	The area around a charged object in which a
		force would be exerted by another charged
		object.
		· ·

	P4 atomic structure and radiatio	n key words
1	Proton	Sub-atomic particle found in the nucleus of the
		atom. Relative mass of 1 and charge of +1
2	Neutron	Sub-atomic particle found in the nucleus of the
		atom. Relative mass of 1 and charge of 0
3	Electron	Sub-atomic particle found orbiting the nucleus
		of the atom. Relative mass of 0 and charge of -
		1
4	Atomic number	The number of protons in an atom. This is the
		smaller of the two numbers for each element
		in the periodic table
5	Mass number	The number of protons and neutrons in an
		atom. The larger of the two numbers for an
		element in the periodic table
6	Isotope	Atoms of an element with the same number of
		protons but different numbers of neutrons
7	Radiation	The emission of electromagnetic waves or sub-
		atomic particles from an object
8	Radioactive source	A source which emits ionizing radiation in the
		form of alpha, beta of gamma
9	Activity	The rate at which a radioactive source decays
10	Count rate	The number of radioactive decays per second
		measured by a detector
11	Alpha particle α	Two protons and two neutrons – the same as a
10		helium nucleus
12	Beta particle β	A high energy electron emitted from the
12	<u> </u>	nucleus when a neutron turns into a proton
13	Gamma ray Y	A high energy electromagnetic wave emitted
	11.16116	from the nucleus The time taken for half of the atoms in a
14	Half life	
		radioactive source to decay or the time taken for the count rate from a radioactive source to
		reduce by half
15	Irradiation	The process of exposing an object to radiation.
15	in adiation	This does not make the irradiated object
		radioactive
16	Contamination	When radioactive atoms become present in a
10	containingtion	material where they should not be.
		matchar where they should not be.

2 of 4 PHYSICS

17	Background radiation (T)	Natural sources of radiation that is around us all the time
18	Nuclear fission (T)	The splitting of a large unstable nucleus to release energy
19	Nuclear fusion (T)	The joining of two lighter nuclei to make a larger nucleus.

P5 -	- Forces and motion	Taught in Y10
1	Scalar	A measurement that has both only magnitude e.g. distance,
-		speed, time, temperature.
2	Vector	A measurement that has both magnitude and direction e.g.
2		displacement, velocity, acceleration.
3 Force (F) A push or pull on an object due to the interact		A push or pull on an object due to the interaction with
5		another object, measured in Newtons (N).
4	Contact force	A force that can only act when objects are touching.
5	Non-contact force	A force that can act when objects are not touching.
6	Resultant force	The force left over when all forces have been resolved.
7	Gravity (g)	A force between all objects of mass. A very weak force, we
		only notice it with very large objects e.g. a planet.
8	Mass (m)	The amount of matter in a substance, measured in kg.
9	Weight (W)	The force acting on an object due to gravity.
10	Work Done (W)	The energy transferred by a force moving an object in the
10		direction of the force.
11	Spring constant	The force required to stretch a spring 1m. Different for all
11		springs.
12	Moment of a force (M)	The turning effect of a force.
12	۸	
	Fluid (liquid or gas)	The force on the walls of a container from the fluid particles
13		colliding. This force is at right angles to the walls of the
		container.
14	Atmospheric pressure	The pressure on a body from the particles of air colliding
	(T)	with it.
15	Distance	The total distance travelled by an object. Distance is a
		scalar quantity.
16	Displacement	The distance in a straight line from start point and end
-		point. Displacement is a vector quantity.
17	Speed	How fast an object is moving. Speed is a scalar quantity.
18	Velocity	Speed in a given direction. Velocity is a vector quantity.

19	Acceleration	The change in velocity of an object in a given time. Acceleration is a vector quantity.
	Newton's First Law	An object at rest remains at rest and an object in motion
20		remains in motion with the same speed and same
		direction unless acted upon by an external force.
	Newton's Second Law	The acceleration of an object is proportional to the force
		on the object and inversely proportional to the mass of
21		the object. The bigger the force the bigger the
		acceleration, the bigger the mass the smaller the
		acceleration.
	Newton's Third Law	Every action has an equal and opposite reaction. When
22		two objects interact the exert an equal and opposite force
~~~		on one another.
22	Champing distance	
23	Stopping distance	The sum of the thinking and braking distances of a vehicle.
24	Thinking distance	The distance travelled between the driver seeing an
- ·		obstacle and applying the brakes.
25	Braking distance	The distance travelled by a vehicle after the driver has
25		applied the brakes.
20	Momentum	A property of moving objects linked to the mass and
26		velocity of the object.
	Conservation of	In a closed system the momentum before an event is equal
27	momentum	to the momentum after the event.
<u> </u>	Closed system	This is where the objects in focus can be considered closed
28	closed system	off from the rest of the world.
		on nom the rest of the world.

	Physics units		
	Unit	Symbol	Measured in
1	Mass	m	Kilograms (kg)
2	Volume	V	Meters cubed (m ³ )
3	Density	ρ	Kilograms per meter cubed (kg/m ³ )
4	Distance	S	Meters (m)
5	Time	t	Seconds (s)
6	Temperature	Т	Degrees Celsius (°C)
7	Frequency	f	Hertz (Hz)
8	Electric	Q	Coulombs (C)
	charge		
9	Electric	1	Amperes (A)
	current		
10	Potential	V	Volts (V)
	difference		
11	Resistance	R	Ohms (Ω)
12	Speed	v	Meters per second (m/s)
13	Acceleration	а	Meters per second squared (m/s ² )
14	Momentum	р	Kilogram meters per second (kgm/s)
15	Force	F	Newtons (N)
16	Pressure	Р	Pascals (Pa)
17	Energy	E	Joules (J)
18	Power	Р	Watts (W)

### PHYSICS KNOWLEDGE ORGANISER

### AQA GCSE Physics - Equations & Formulae (specification 8463 & 8464)

### Unit 1: Energy

Equations	to Learn		
kinetic energy = $\frac{1}{2}$ × mass × speed ²			$E_{k}=\frac{1}{2}mv^{2}$
GPE = mas	s × gravitat	ional field strength × height	$E_p = mgh$
power = $\frac{w}{tr}$	ork done me taken	= energy transferred time taken	$P = \frac{W}{t} = \frac{E}{t}$
efficiency = efficiency =	total en	ergy output ergy input wer output	
Equations	given in t	he exam	
elastic poter	ntial energy	$v = 0.5 \times \text{spring constant x}$ (extension) ²	$E_e = \frac{1}{2}ke^2$
		rgy = mass × icity × temperature change	$\Delta E = mc\Delta\theta$

### Unit 2: Electricity

Equations to Learn	
charge flow = current × time	Q = I t
potential difference = current × resistance	V = I R
total resistance = resistance of component 1 + resistance of component 2	$R_{\tau} = R_1 + R_2$
power = current * potential difference	P = I V
power = (current) ² × resistance	$P = I^2 R$
energy transferred = power × time	E = Pt
energy transferred = charge flow × potential difference	E = QV

* Higher tier only

^ Separate Physics only

#### Unit 3: Particle Model of Matter

Equations to Learn	
density = mass volume	$\rho = \frac{m}{V}$
Equations given in the exam	
change in thermal energy = mass × specific heat capacity × temperature change	$\Delta E = mc\Delta \theta$
thermal energy for a change in state = mass × specific latent heat	E = mL
^ for a gas: pressure × volume = constant	pV = constant

Unit 6: Waves	
Equations to Learn	
wave speed = frequency × wavelength	$v = f \lambda$
Equations given in the exam	
time period = $\frac{1}{\text{frequency}}$	$T = \frac{1}{f}$
^ magnification = $\frac{\text{image height}}{\text{object height}}$	$M = \frac{h_{image}}{h_{object}}$

### Unit 7: Magnetism and Electromagnetism

* Force = magnetic flux density × current × length of conductor in magnetic field	F = BIl
* potential difference across primary coil * potential difference across secondary coil number of turns in primary coil number of turns in secondary coil	$\frac{V_P}{V_S} = \frac{N_P}{N_S}$
* ^ p.d across primary × current in primary = p.d. across secondary x current in secondary	$V_P I_P = V_S I_S$

Unit 5: Forces	Unit	5:	Forces	
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Equations to Learn	
weight = mass × gravitational field strength	W = m g
work done = force × distance (moved along the line of action of the force)	W = Fs
force = spring constant × extension	F = ke
moment of a force = force × distance (perpendicular to the direction of the force)	M = Fd
pressure = force normal to a surface area of that surface	$p = \frac{F}{A}$
distance travelled = speed × time	s = vt
acceleration = time taken	$a = \frac{\Delta v}{t}$
= final velocity-initial velocity time taken	$=\frac{v-u}{r}$
resultant force = mass × acceleration	F = ma
* momentum = mass × velocity	p = mv
Equations given in the exam	
* Pressure = height of column × density of liquid × gravitational field strength	$p = h \rho g$
^ (final velocity) ² – (initial velocity) ² = $2 \times \operatorname{acceleration} \times \operatorname{distance}$	$\begin{array}{l} v^2 - u^2 \\ = 2as \end{array}$
* ^ Force = time taken	$F = \frac{m  \Delta t}{t}$

### Unit 4: Atomic Structure & Unit 8: Space

There are no equations in these sections of the course

# SOCIOLOGY 1 of 1

Кеу	Concepts	
1	Positivism	Positivism is based on the idea that the only way to obtain
		knowledge about the world is through scientific methods.
2	Criticisms	Critics of positivism argue that the methods of natural science
		cannot be applied to the study of the social world.
3	Interpretivists	Interpretivist sociologists argue that the subject matter of
		sociology is completely different from that of natural sciences.
		People do not behave like animals or objects. As a result,
		interpretivists do not believe that sociologists can use
		scientific research methods to study social life.
4	Sampling Strategies	Before carrying out surveys or interviews, the researcher must
		identify the population or group they want to study.
5	Probability	Random sampling: each member of the population has an
	Sampling	equal chance of being included in the sample. Researches use
		computers to generate simple random samples.
6	Stratified Random	May be used if, for example, a sociologist wants the sample
	Sampling	to reflect the age and gender characteristics of the population.
		Stratified random sampling would involve dividing the
		population into strata (subgroups)- for example, males ages 30
		and under, females aged 30 and under, males aged 31 and over.
7	Non-probability	A sociologist may be interested in studying a population for
<i>'</i>	Sampling	which there is no sampling frame, for example British Muslim
	Sampling	converts or homeless people. In this case, snowball sampling
		may be the only option. Using this technique, the researcher
		would contact one member of the population, gradually
		gaining their confidence until they are willing to identify
		others in the same population who might co operate in this
		way, the researcher can obtain a sample, although it is unlikely
		to be representative.
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Key	Key Words & Terminology		
1	Hypothesis	A supposition, hunch or informed guess. It is usually written as a statement that can be tested and then either supported by the evidence or refuted.	
2	Pilot Study	A pilot study is a small scale trail run carried out before the main research.	
3	Literature Review	When planning to research a particular topic, a sociologist will read up on the available literature, for example, any studies published in books or journals relevant to that area. This is known as literature review and it is a key part of the research process.	
4	Research Process	The research process in sociology involves several steps or stages.	
5	Research Aims	Set out what the researcher Is planning to investigate and so provide the study with a clear focus.	
6	Quantitative Data	Is presented in numerical forms; For example 48% of respondents visit the local library at least once in the last month. the results are usually displayed in graphs, pie charts, or tables of statistics that count or measure something.	
7	Qualitative Data	Is presented in visual or verbal form, for example as words or quotations, rather than numbers.	



### 1 of 2 **SPORT**

#### Knowledge organiser- Unit 1

# Exercise Intensity and how it can be determined:

- Intensity Be able to measure heart rate (HR) and apply HR intensity to fitness training methods
- Know about target zones and training thresholds; be able to calculate training zones and apply HR max to training: HR max = 220 – age (years)
- Be able to calculate 60-85% HR max and know that this is the recommended training zone for cardiovascular health and fitness
- Know that the borg (1970) (6-20)
   Rating of Perceived Exertion (RPE)
   Scale can be used as a measure of
   exercise intensity
- Know about the relationship between RPE and heart rate where: RPE x 10 = HR (bpm)

# Components of Fitness & Tests



# Importance of Fitness Components for successful sports participation:

- Being able to successfully meet the physical demands of the sport in order to reach optimal performance
- Being able to successfully meet the skill-related demands of the sport in order to reach optimal performance
- 8. Being able to perform efficiently
- 9. Giving due consideration to the type of event/position played

# Importance of Fitness Testing to sports performers and coaches:

- Gives baseline data for monitoring/improving performance
- Can design training programmes based on test results and determine if training programmes are working
- 12. Results can give a performer something to aim for/goal setting



### Keywords.

1.Formal Elements: Line, Tone, Colour, Pattern, Shape, Texture and Form

**2.Line:** Line is the path left by a moving point.

3.Shape: Shape is an area enclosed by a line.

**4.Tone:** This refers to the lightness or darkness of something.

5.Pattern: A design that is created by repeating lines, shapes, tones, or colours.

6.Media: The material used to create artwork.

**7.Technique**: The way tools and media are used to create artwork.

**8.Composition:** This is the way an object is placed or positioned on a page.

9.Stitch: One complete movement of a threaded needle through fabric.

**10.Lino Printing:** A form of block printing that involves carving a pattern **or** design into a vinyl surface.

**11.Applique:** This technique is accomplished by either hand stitching or machine. Pieces of fabric are sewn onto a larger piece of fabric to form a picture.

12.Mola: This is reverse applique.

**13.Fabric Paint:** A combination of dye and a binding agent that makes it cling it is applied to.

### Sketchbook

- Artist research
- Experiment with a range of materials.
- Experiment with colour, line, shape, space.
- Annotations to show reflections on their work and that of others.

# YEAR 10 TEXTILES KNOWLEDGE ORGANISER – UNIT 2 EXAM.

#### Command Words.

- 1. Research: The process of solving problems and finding facts in an organised way.
- 2. Analyse: Identify several relevant factors, show how they are linked, and explain the importance
- 3. Method: A procedure, technique, or way of doing something
- Evaluation: Bring together all your information and make a judgement on the Importance or success of something.
- Generate Ideas: The process of creating, developing, and communicating abstract, concrete, or visual ideas.
- 6. Develop: To grow or change into a more advanced or stronger form or idea.
- 7. Refine: To make improvements to the idea.



### NOTES



# HOME LEARNING PRIORITIES 03 - 07 JANUARY 2022

Monday 3rd	
Tuesday 4th	
Wednesday 5th	
Thursday 6th	
Friday 7th	

# HOME LEARNING PRIORITIES 10 - 14 JANUARY 2022

Monday 10th	
Tuesday 11th	
Wednesday 12th	
Thursday 13th	
Friday 14th	

# HOME LEARNING PRIORITIES 17 - 21 JANUARY 2022

Monday 17th	
Tuesday 18th	
Wednesday 19th	
Thursday 20th	
Friday 21st	

Monday 24th	
Tuesday 25th	
Wednesday 26th	
Thursday 27th	
Friday 28th	

# HOME LEARNING PRIORITIES 31 - 04 FEBRUARY 2022

Monday 31st	
Tuesday 1st	
Wednesday 2nd	
Thursday 3rd	
Friday 4th	

## HOME LEARNING PRIORITIES 07 - 11 FEBRUARY 2022

Monday 7th	
Tuesday 8th	
Wednesday 9th	
Thursday 10th	
Friday 11th	

# HOME LEARNING PRIORITIES 21 - 25 FEBRUARY 2022

Monday 21st	
Tuesday 22nd	
Wednesday 23rd	
Thursday 24th	
Friday 25th	

### HOME LEARNING PRIORITIES 28 - 04 MARCH 2022

Monday 28th	
Tuesday 1st	
Wednesday 2nd	
Thursday 3rd	
Friday 4th	

# HOME LEARNING PRIORITIES 07 - 11 MARCH 2022

Monday 7th	
Tuesday 8th	
Wednesday 9th	
Thursday 10th	
Friday 11th	

Monday 14th	
Tuesday 15th	
Wednesday 16th	
Thursday 17th	
Friday 18th	

# HOME LEARNING PRIORITIES 21 - 25 MARCH 2022

Monday 21st	
Tuesday 22nd	
Wednesday 23rd	
Thursday 24th	
Friday 25th	

Monday 28th	
Tuesday 29th	
Wednesday 30th	
Thursday 31st	
Friday 1st	

# Ambition . Knowledge . Determination . Leadership

Ambition

My short, mid term and long term ambitions are:

Knowledge		Townsh
The subjects I need to work hardest in this term are:		Target grade
	English	
	Maths	
	Science	

# Ambition . Knowledge . Determination . Leadership

Determination

One area I need to improve in is:

Leadership

One way in which I will help others to show leadership is:

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