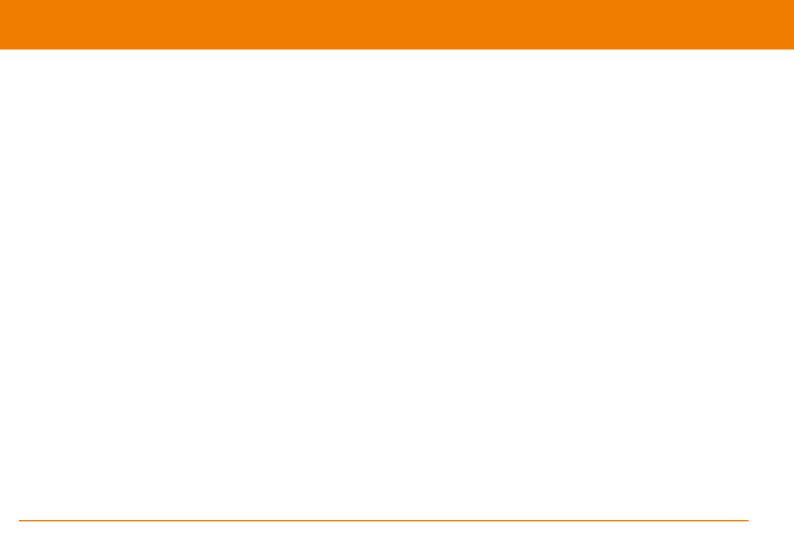




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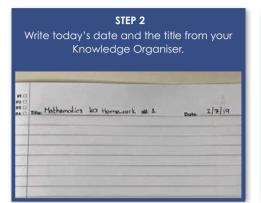
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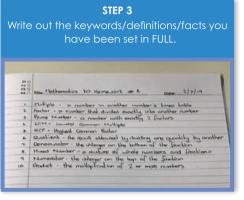
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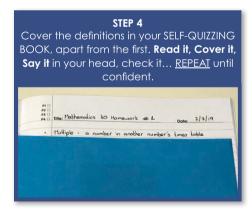
# **How do I complete Knowledge Organiser homeworks?**

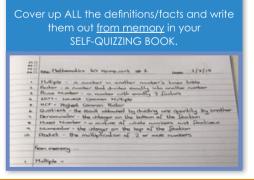
You will be set a MINIMUM of 2 Knowledge Organiser homeworks in every subject each half term

# STEP 1 Identify what words/ definitions/facts you have been asked to learn. Sheffled Park Academy The Manual Companisor Term 1 AMBITION - KNOWLEDGE - DETERMINATION









STEP 5

STEP 6

Check your answers and correct where required. Repeat Steps 4 to 6 until you are confident.

You will be tested 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 11 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 short-term memory to long-term memory.

### **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.



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 11 will also be required in years to come.

Knowledge Organisers are **NOT** a replacement for revision guides but they include the fundamental knowledge that ALL students in Year 8 require.



### Keywords.

Formal Elements Line, Tone, Colour, Pattern, Shape, Texture and Form

Line Line is the path left by a moving point.

Shape Shape is an area enclosed by a line.

Tone This refers to the lightness or darkness of something.

Pattern A design that is created by repeating lines, shapes, tones

or colours.

Surface texture Refers to the surface quality in a work of art.

Two Dimensional Having its elements organised in terms of a flat surface.

Sgraffito A technique used in painting which consists of putting down a

preliminary surface, covering it with another, and then

scratching the superficial layer so that the pattern or shape  $% \left\{ 1,2,\ldots ,n\right\}$ 

below appears.

Media The material used to create artwork.

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

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

Lino Printing Is a form of block printing that involves carving a pattern

or design into a vinyl surface.

# YEAR 11 ART KNOWLEDGE ORGANISER – UNIT 3 STREET FESTIVAL.

### 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.

**Research** Is the process of solving problems and finding facts in an organised way.

Research is done by what is known and building on it.

Analyse Identify several relevant factors, show how they are linked, and explain

The importance of each.

Method A procedure, technique, or way of doing something.

Evaluation Bring together all of 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.

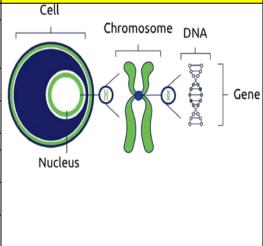
**Develop** To grow or change into a more advanced or stronger form or idea.

Refine To make improvements to the idea.

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.	
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.	INSULIN 100 units per mi
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.	10mm (夏 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
5	Type 1 diabetes	When the pancreas does not produce enough insulin.	
6	Type 2 diabetes	When the body cells no longer respond to insulin.	

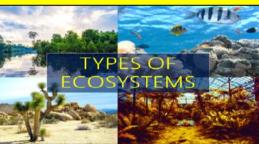
B5	;	Homeostasis (Triple^)		
Ke	y word	Definition	NEAD CICUTED	FAR-SIGHTED
1	Myopia	Short-sightedness.	NEAR-SIGHTED	LAU-SIGUIED
2	Hyperopia	Long-sightedness.		
3	Cerebral cortex	The outer part of the brain responsible for intelligence, language, memory and consciousness.		
4	Medulla	Controls unconscious activities such as heart rate and breathing rate.	Myopia	Hyperopia
5	Cerebellum	Controls balance, co-ordination of movement and muscular activity.		
R6		Reproduction and Variation		

B6	)	Reproduction and Variation			
Ke	y word	Definition			
1	Sexual	Reproduction involving two parents (one			
	reproduction	male and one female) where gametes fuse			
		together.			
2	Asexual	Involves only one parent with no fusion of			
	reproduction	gametes.			
3	Gene	A small section of DNA on a chromosome			
		which codes for a protein.			
4	Mutation	A change in the DNA.			
5	Genome	The entire set of genetic material of an			
		organism.			
6	Natural	A process which gives rise to phenotypes			
	selection	best suited to their environment.			
7	Extinction	There are no remaining individuals of a			
		species still alive.			



B6	)	Reproduction and Variation (Triple^)	
Ke	y word	Definition	phosphate
1	Speciation	Formation of a new species through natural selection from an isolated population.	base
2	Nucleotide	Sugar + phosphate + base.	
3	Cuttings	A simple method used by gardeners to produce many genetically identical new plants from a parent plant.	deoxyribose sugar

B/		Ecosystems and Relationships	
Key word Definition		Definition	
1	Ecosystem	Interaction of a community of living (biotic) and non-living (abiotic) parts of their environment.	
2	Producer	Starts off a food chain. Usually, green plants or algae that photosynthesise. Eaten by primary consumers.	
3	Predator	Consumer that kills and eats other animals.	



	B7	Cycles and Impact	
1	Pollution	Can occur on land, in water, in the air. Pollution kills plants and animals which reduces biodiversity.	CO) GOZ
2	Carbon cycle	Returns carbon from organisms to the atmosphere as carbon dioxide to be used by plants in photosynthesis.	The Water Cycle and The Carbon Cycle
3	Water cycle	Provides fresh water for plants and animals on land before draining into seas. Water is continuously evaporated and precipitated.	borj bud opprove and state products are products and state products and state products are products and state products and state products are products are products and state products are products and state products are products are products and state products are products are products and state products are products ar
4	Food security (T^)	Having enough food to feed a population.	

	R065. Learning Outcome 1. Identify the customer profile for a business challenge								
1	Market	A place where bu	yers and sellers co	me togeth	er to trade good	s and se	rvices.		
2	Target market	A group of custon	ners whom you ar	e aiming yo	our product or se	rvice at			
3	Market Segmentation	The process of dividing the market into different groups of customers based on different characteristics							
4	Benefits of Segmentation include:	Ensuring customer needs are matched and				Targeted			
		met			share				marketing
5	Why does a business segment the	Benefits	Quality of	Amount o	of money	Quant	ity of goods	Tim	e and location for
	market?	required	goods required	available	of customers	requir	red	pur	chasing goods
6	Ways to segment markets	Age	Gender	Income Occupation Lifestyle			style		
7	Customer Profile	The characteristic market.	s of a business's p	erfect cust	omer. Includes t	heir like	s and dislikes. Us	ed to	help segment the

R0	65.Learning Out	tcome 2. Complete			on making	
8	Market Research	Finding out your customers' nee				
		Finding out if there is a demand	for your product – allows yo	ou to understand the i	market and reduce ri	sk.
9	Customer Retention	The ability of a business to keep	its customers so they return	n time after time to pu	urchase their good o	r service.
10	Market Share	The section of a market controlle	ed by a particular business –	- how much they sell o	compared to others.	
11	Primary Research	Gathering information and data	that hasn't been collected b	efore.		
	(Field research)	Information is specific to your bu	usiness and your competitor	rs do not have access	to it.	
		But it is expensive and time cons	suming to complete			
12	Types of research	Interviews	Observation	Questionnaires /	Focus groups	Consumer trials
	include:			surveys		
13	Secondary Research	Research where the data already	y exists.			
	(desk research)	Information is freely available ar	nd easy to find.			
		But it is available to all and isn't	specific to your business.			
14	Types of research	Competitor research	Books / newspapers /	Internal data	Government	Purchased reports
	include:		magazines		statistics	(e.g., MINTEL)
15	Qualitative data	Data or information based on the opinions of those that are being asked				
16	Quantitative data	Data collected that is based on f	Data collected that is based on facts or numbers; usually easier to analyse that qualitative data as it is based around			
		statistics.				

- 1. What are Nutrients Nutrients are the building blocks that make up food and have specific and important roles to play in the body.
- **2. Macronutrients** are needed by the body in large amounts.
- **3. Micronutrients** are needed by the body in small amounts.

		Nutrient	Definition/Function
JTRIENTS	4.	Carbohydrates	Two types:  1. Starchy (complex) provide energy when broken down – slow-release energy to the body (wholegrain provide slower release carbohydrates)  2. Sugary (simple) provide quick release energy to the body's' cells.
ACRON	5.	Proteins	Protein is needed for growth and repair of body cells. Source of energy.  Protein is digested by the body into its component parts – called amino acids.
Z	6.	Fats	Fat is a term used to describe lipids – this can refer to solid fats and oils. Fat is broken down by the body and used for energy as a concentrated source. Also used to provide warmth when stored under the skin.

Vitamins - Vitamins are substances that our bodies need to develop and function normally. They include vitamins A, C, D, E, and K, choline, and the B vitamins (thiamin, riboflavin, niacin, pantothenic acid, biotin, vitamin B6, vitamin B12, and folate/folic acid).

		Water Soluble Definition/Function				
s	7.	C Antioxidant	Normal structure and function of connective tissue e.g. collagen. Helps healing process. Antioxidant (protects from free radicals). Helps absorb iron in the body. Improves immune system.			
MICRONUTRIENTS	8.	B1 Thiamin	Normal function of the nervous system and heart. Releases energy from carbohydrates.			
ICRONI	9.	B2 Riboflavin	Release of energy from carbohydrates, fats and proteins. Maintains healthy skin, eyes, nervous system and mucous membranes.			
Σ	10.	B3 Niacin	Energy release carbohydrates, fats and proteins. Maintains healthy skin, digestive system and nervous system.			
	11.	B9 Folate	Works with B12 to make red blood cells and nervous system. Reduces risk of nervous defects in unborn babies.			
	12.	B12 Colbalbumin	Releases energy from food. Maintains normal structure of nerves.  Processes folic acid (which helps make healthy red blood cells).			

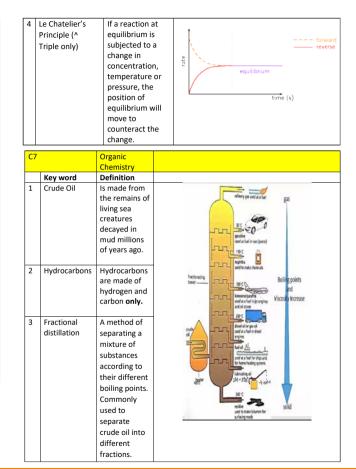
13. Vitamins - Vitamins are substances that our bodies need to develop and function normally. They include vitamins A, C, D, E, and K, choline, and the B vitamins (thiamin, riboflavin, niacin, pantothenic acid, biotin, vitamin B6, vitamin B12, and folate/folic acid).

		Fat Soluble	Definition/Function
MICRONUTRIENTS	14.	A Antioxidant	<ul> <li>Needed for structure and functioning of the skin and mucous membranes.</li> <li>Cell differentiation (growth and development of the body).</li> <li>Helps with vision in dim light and colour vision</li> <li>Keeping the immune system healthy.</li> </ul>
	15.	D	<ul> <li>Needed for the absorption of calcium and phosphorus from foods.</li> <li>Healing broken bones.</li> <li>Developing and maintaining healthy bones and teeth.</li> <li>Preventing bone diseases such as rickets and osteoporosis.</li> </ul>
	16.	E Antioxidant	Helps maintain healthy skin and eyes and strengthen the body's natural defence against illness and infection.     Forming red blood cells.
	17.	К	Needed for clotting of blood and is also required maintaining healthy bones.     Infants are given vitamin K at birth.

Mineral - A mineral is a naturally occurring inorganic solid, with a definite chemical composition, and an ordered atomic arrangement. This may seem a bit of a mouthful, but if you break it down it becomes simpler. Minerals are naturally occurring. They are not made by humans. Minerals are inorganic.

		Nutrient	Definition/Function
RIENTS	18.	Iron	Needed to make haemoglobin in red blood cells which transports oxygen around the body. Also removing waste substances from the body. Iron is only absorbed in the presence of vitamin C.
CRONUTE	19.	Calcium	Needed by the body to build strong bones and teeth. Essential for blood clotting process and blood pressure. Essential for nerve signal transmission and muscle contraction. The skeleton contains about 99% of the body's calcium.
Σ	20.	Sodium	Controls the amount of water in the body Makes nerves and muscles work properly.

1	Key word Collision theory	Rate and Extent of Chemical Change Definition According to this theory, chemical reactions can occur only when reacting particles collide with each other and with sufficient energy.	***
2	Catalyst	A substance which speeds up a chemical reaction without being used up itself. It works by lowering the activation energy.	ENERGY  Activation Energy without catalyst  Activation Energy without catalyst  Activation Energy with catalyst  Products  PROCRESS OF REACTION
3	Equilibrium	When a reversible reaction occurs in a closed system, equilibrium is reached when the forward and reverse reactions occur at exactly the same rate.	$\rightleftharpoons$



4	Cracking	The larger molecules from fractional distillation are less useful. We can break them down into smaller, more useful molecules. Cracking produces a mixture of alkanes and alkenes.	delikery fube gisses in product wide with a second paraffer with a s
5	Alkanes	Alkanes are the most common hydrocarbon found in crude oil. Alkanes have the general formula CnH2n+2.	H H H H H H H H H H H H H H H H H H H

	ı	1	_
6	Alkenes	Alkenes are hydrocarbons with a double bond between two of the carbon atoms in their chain, causing them to be unsaturated. They have the general formula CnH <sub>2</sub> n.	H C = C H ethene  double bond  H H H C = C - C - H propene H C = C - C - H
7	Alcohols (^)	Alcohols contain the functional group – OH. The first four members of a homologous series of alcohols are methanol, ethanol, propanol and butanol.	H H H-C-C-O-H H H
8	Polymers	Large long- chain molecules made up of lots of small monomers joined together by covalent bonds.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

# **CHEMISTRY** 3 of 5

C8	3	Chemical Analysis	
	Key word	Definition	
1	Chromatography	A technique for the separation of a mixture of liquids.	Paper Solvent Front Solvent

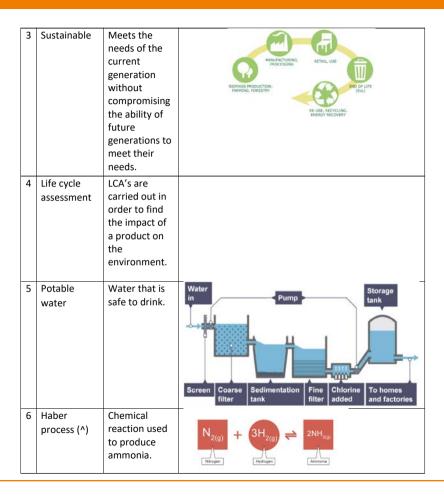
con: the trav diffe sper caus	various stituents of mixture el at erent eds, sing them eparate.
--	--

	3	Pure substance	It consists of	
		i die substance	only one	
1			substance.	
1				
				Element
	4	Mixture	It consists of a minimum of	Mixture compound
			two	
			substances not	
			chemically	
			joined	
			together.	
	5	Compound	It consists of	Oz and Hz molecules HzO molecules
-			minimum of	
			two elements	
			chemically	
			joined	
			together.	
	6	Distillation	A technique	water out
			for the	condenser
			separation of	
			compounds	
			from a liquid	sea ( ) water in
			mixture using	water
			boiling points and	<u> </u>
			condensation.	heat
			condensation.	

6	Distillation	A technique for the separation of compounds from a liquid mixture using boiling points and condensation.	water out  condenser  water in pu  water in
C9	1	Chemistry of The	
		Atmosphere	
	Key word	Definition	
1	Carbon foot print	'Total amount of CO <sub>2</sub> and other greenhouse gases emitted over the full life cycle of a product, service or event'.	CO <sub>2</sub>
2	Greenhouse effect	The increase in the temperature of the Earth's atmosphere due to the greenhouse gases in the atmosphere trapping infrared radiation from the surface.	GREENHOUSE EFFECT  Long Westerrigh  Short Nuseringen
3	Global climate change	A long-term shift in global climate patterns.	

4	Global dimming	A gradual reduction in the amount of light reaching the Earth's surface. This can be caused by carbon particulates.	Arm den text (f. e.g.
5	Greenhouse gases	Greenhouse gases include water vapour, carbon dioxide and methane.	
6	c v f T c c	ulphur dioxide an be released when burning ossil fuels. his then issolves in tmospheric water.	

C1	10	Using	
		resources	
	Key word	Definition	
1	Finite	Resource that will run out	FOSSIL FUEL
		e.g. fossil fuels.	No.
			A Beauty Barrier Barri
2	Renewable	Resource that can be replenished e.g. solar power, tidal power.	Since State



### Year 11 BTEC Digital IT Knowledge Organiser Term 1 – Security Policies

	Planning for disaster recovery	
	Range of disasters which could happen	
1	Theft of data (having systems hacked or laptops/devices stolen)	
2	Virus or other malware infection	
3	Data loss (accidental deletion or intentional sabotage)	
4	Fire or flood	
5	Mechanical failure of equipment	

### **Key Question**

Why is it important to have a disaster recovery policy?

### <u>Answer</u>

A disaster recovery policy is created to ensure the organisation can become operational again as quickly as possible after an unforeseen circumstance. A detailed plan is created covering all eventualities which could cause an organisation to stop trading.

## 

Infrastructure (updating and replacing hardware and software)

Responsible use policies (including email and internet use policies)

**Security Policies** 

	Disaster Recovery Plan					
Consideration			Description			
1	Identifying potential risks	1	Identify potential risks to the system and how each risk will affect the computer system and data			
2	Who is responsible for which actions in the event of	2 Staff are given specific recovery tasks to avoid anything being duplicated or forgotten.				
	a disaster					
3	What staff should and should not do	3	Ensure that all staff know the procedures even if they do not have any direct tasks			
4	How the systems will be backed up (including what	4 Ensure that regular backups are taken. Decide where the backups will be stored and which media will be used				
	will be backed up, how often and which media will	to store the data e.g. cloud, magnetic tapes.				
	be used)					
5	A timeline to establish how quickly the systems will	5	After a disaster not all operations will be needed immediately. A plan should be made to define how long the			
need to be backup and running			organisation can be without each system. Critical systems must be identified and will need to be recovered			
			first.			
6	An alternative location for operation (hardware,	6	After disaster the organisation may need to move quickly to another location. Hardware, software and			
	software and personnel).		personnel should also be available (along with the backups) so that the organisation can function again quickly.			

7

Disaster recovery

Data recovery

### 1. Context

Playwright: John Boynton Priestley (1894-1984)

<u>Dates:</u> Written in 1945 <u>First performed:</u> In Moscow, Russia, in

### Era: Edwardian

Genre: Drama
Set: Fictional town Brumley 'an industrial city in the north Midlands' in 1912
Structure: Three Act Play

Pre and Post War – Before the first world war there was deemed to be a general air of complacency regarding the prospect of any war taking pace. There were strong distinctions between upper and lower classes, society was deeply patriarchal. After the second word war ended in 1945, class distinctions had been greatly reduced by the two wars and women had earned a more valued place in society. After 1945 there was a desire for more sweepine social change.

### Social and Moral Responsibility – Attitudes towards social and moral responsibility changed rapidly in the tine between when the play was set (1912) and the time the play was swritten (1945). In 1912 the general attitude of those with social status and wealth was towards looking after one's own. By the mid-1940s however, the Labour party under Attlee won a landslide election reflecting a wave of enthusiasm towards communal

responsibility for everyone in society.

### Biography of Priestley

- Born in Yorkshire in 1894.
- Fought in the first world war and became politicised by the suffering of it
- Became concerned with the effects of social inequality in Britain in 1930s
- Set up a new political party in 1942, The Commonwealth Party. It merged with the labour Party and was integral in developing the welfare state

Socialism – Socialism is an approach to economic and social systems that is characterised by social ownership, democratic control and high levels of equality. Socialism is generally concerned with ensuring that disparities between wealth and social status are erased from society. After the two World Wars British society was far more open to socialist itsues. In An Inspector Calls, the Inspector harbors socialist studies.

The Titanic – RMS Titanic was a British passenger liner that sank in the North Atlantic ocean in the morning hours of 15th April 1912, killing around 1500. The Titanic was designed to be the pinnacle of both safety and comfort, and due to its enormous size and quality was frequently labeled 'unsinkable'. In An Inspector Calls Birling claims this, thus immediately losing the respect of the audience. It can serve as a symbol of the hubris and arrogance of man.

### FORM - The play fits into three possible forms:

Well-Made Play				
٠	A popular type of drama			
	from the 19th century			
•	The events build to a			
	climax			
•	Primarily concerned with events that happened			
	before the play			
•	Plot is intricate and complex			
	•			

# Morality Play Most popular during

- They taught the audience lessons that focused on the seven deadly sins

  They taught the audience lessons that focused on the seven deadly sins
- Characters who committed those sins were punished

# Involves a gripping tale based around a

- crime
   The audience
  receives clues and
  must guess what has
  happened before the
  end
- All is revealed by the climax

### KS4 AN INSPECTOR CALLS KNOWLEDGE ORGANISER

### 2. Key Characters

**Inspector Goole**: An enigmatic (mysterious) figure who serves as Priestley's mouthpiece and advocates social justice. He serves as the Birling's conscience and exposes their sins.

Mr Arthur Birling: A capitalist and business owner who opposes social change and greater equality. He is a self-made man and lacks the refined manners of the upper classes. Made a fool by Priestley to highlight the arrogance and absurdity of his views.

Mrs Sybil Birling: Her husband's social superior, Mrs Birling is involved in charity work but contradictorily believes in personal responsibility and looking after one's-self. Fails to understand he own children.

Shelia Birling: Young and initially enthusiastic, Sheila grows and changes throughout the play, embracing the views of the Inspector and challenging the social indifference of her parents. She becomes wiser and more cautious in her relationship with Gerald.

Eric Birling: In his early twenties, he drinks too much and forces himself upon Eva Smith. Whilst she is pregnant with his child, he steals from his father to attempt to support her. Grows and changes, realises his own wrongs along with everyone else's. Critical of parents.

Gerald Croft: A businessman engaged to Sheila, Gerald a relationship with Daisy Renton (Eva Smith). Even though he sits between he two generations he is politically closest to Birling and fails to embrace the Inspector's message, instead seeking to prove he wasn't real.

Eva Smith: Doesn't appear in the play, but her suffering and abuse represents that of all the working classes. She also calls herself both Daisy Renton and Mrs Birling. The older characters begin to question whether she really is one person.

#### 3. Central Themes

Social Responsibility	Priestley advocates a socialist message of collective responsibility for one another. The Inspector serves as his voice in conveying this ideology, but the younger generation also come to embrace it. The suffering of Eva Smith highlights the powerlessness of the working classes and the need for a society that protects is most vulnerable.	
Age and the Generational Divide	Priestley presents a view that there is hope for change and that it lies with the younger generation. Both Sheila and Eric change for the better, maturing and becoming more empathetic as they come to embrace the Inspector's message. They also become vocal critics of their parents' indifference to Eva's suffering.	
Class and Power	Priestley highlights the immense power that business owners wielded over their workers and presents them as arrogant and lacking in empathy. He demonstrates Edwardian society's preoccupation with wealth and status at the cost of the individual as a way of promoting change in post-WW2 Britian.	
Gender	At the time the play was first performed, women had just played a pivotal role in World War 2 and were empowered by the freedom work provided them. In the 1912 setting, we see Sheila's growing	

independence vs her mother. However, the play still highlights the

awful vulnerability of women and the outdated stereotyping of them.

4. Key Vocabulary	
Capitalist	Believing in private wealth and business aimed at making profit for business owners. Independent and self-reliant.
Socialist	Believing in shared ownership, collective responsibility for one another and social equality for all.
Ideology	A political viewpoint or set of beliefs, for example socialism.
Responsibility	Being accountable or to blame for something, or having a duty to deal with something.
Hierarchy	A ranking of status or power e.g. the strict class hierarchy of Edwardian England.
Patriarchy	A society in which power lies with men.
Prejudice	An opposition to or opinion about something/someone based upon what they are e.g. working class, female etc.
Morality	The belief that some behaviour is right and some is wrong.
Proletariat	The working class.
Bourgeoisie	The capitalist class in possession of the means of acquiring wealth.
Aristocracy	The highest class in society and often holding titles passed from father to son, for example Lord and Lady Croft.
Façade	A false front or surface-level illusion, for example the façade of family happiness in the opening scene of the play.
Catalyst	Someone or something that speeds up or triggers an event.
Antithesis	When something is the opposite of something else.

5. Key Terminology, Symbols and Devices			
Dramatic Irony  When the audience is aware of something the not aware of, for example Birling believing w			
Plot Twist	When a story suddenly departs from its expected path and something very unexpected happens. The final phone call.		
Cliffhanger	Each act ends on a particularly dramatic, revealing moment that creates a sense of tension and anticipation.		
Stage Directions	When the playwright instructs actors/director to perform in a particular way. Priestley's are unusually detailed.		
Entrances/Exits	Characters frequently leave or enter the stage at dramatic moments. Some characters miss important events.		
Lighting	Priestley uses stage directions to indicate how the stage should be lit. Changes to 'brighter and harder' for Inspector.		
Props	Physical objects used in the play. The photograph plays a key role in identifying Eva. The doorbell interrupts Birling.		
Contrast and Juxtaposition	Deliberately placing two very different things along side one another to draw comparisons e.g. Birling and the Inspector.		

The Big Ideas	Notes	The Methods	Notes
Priestley promotes a socialist ideology in which he argues for collective social responsibility.		Priestley uses     contrasts in character,     setting and language to     emphasise the different     conflicts at work in     society.	
Priestley suggests that change is possible, and that hope lies with the younger generation.		2. Priestley uses the characterisation of the Inspector and the family as a means of highlighting his view of different groups in society.	
Priestley challenges existing social hierarchies of class and gender.		3. Priestley uses entrances, exits, beginnings and endings as a means of building and maintaining dramatic tension.	

### 1. Context

Playwright: Shakespeare (April 23rd 1564-April 23rd 1616)

Dates: written around 1606 Published: in 'the First Folio, 1623 Era: Jacobean

Genre: Tragedy = A play ending with the suffering and death of the main character. Set: Scotland.

Structure: Five Act Play

The Divine Right of Kings says that a monarch is not subject to earthly authority and that they have the right to rule directly from the will of God. It implies that only God can judge an unjust king and that any attempt to depose, dethrone or restrict his powers runs contrary to the will of God and may constitute a sacrilegious act. The action of killing a king is called regicide.

Only a century before Macbeth was written, England had suffered under the massive disorder of the Wars of the Roses, Civil disorder was now seen as the ultimate disaster and also an ungodly state.

Shakespearean Tragedy. Macbeth is one of Shakespeare's tragedies and follows specific conventions. The climax must end in a tremendous catastrophe involving the death of the main character; the character's death is caused by their own flaw(s) (hamartia) yet the character has something the audience can identify with.

#### **Biography of Shakespeare** Born in Stratford-Upon-Avon

- Married Anne Hathaway in 1582.
- Left his family behind around 1590 to move to London to become an actor and playwright. Highly successful, he established himself as the most popular playwright of his day. Part-owner of The Globe Theatre in London.
- His first theatre group was called Lord Chamberlain's Men. later changed to the King's Men (1603) under the patronage of King James I.
- Died on his birthday in Stratford-upon-Avon in

Macbeth. The plot is partly based on fact. Macbeth was a real 11th Century king who reigned Scotland from 1040-1057. Shakespeare's version of the story originates from the Chronicles of Holinshed (a well known historian). The play was most likely written in 1606 the year after the Gunnowder Plot of 1605 - and reflects the insecurities of Jacobean politics.

King James I of England (and VI of Scotland) came to the throne in 1603 following the death of Queen Flizabeth I. The play pays homage to the king's 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. While King of Scotland, James VI became utterly convinced about the reality of witchcraft and its great danger to him leading to trials that begin in 1591.

The Great Chain of Being was a strict religious hierarchical structure of all matter and life which was believed to have been decreed by God. This idea dominated Elizabethan beliefs. The chain starts from God and progresses downward to angels, demons (fallen/renegade angels), stars, moon, kings, princes, nobles, commoners, wild animals, domesticated animals, trees, other plants, precious stones, precious metals, and other minerals.

### Conventions of a TRAGEDY

- 1. Tragic Hero
- 2. A struggle between Good and Evil
- Hamartia **Tragic Waste**
- External Conflict 6. Internal Conflict
- Catharsis
- Supernatural Elements Lack of Poetic Justice
- 10. Comic Relief

### KS4 KNOWLEDGE ORGANISER: MACBETH

### 2. Key Characters

Macbeth: The enonymous protagonist is both ambitious and ruthless. He transforms from loyal warrior to paranoid, tyrannical

Lady Macbeth: A strong, ambitious and manipulative woman who defies expectations. Persuasive and ruthless.

The Witches / Weird Sisters: Supernatural and manipulative beings who seem to be able to predict the future. Unearthly and omniscient.

Banquo: Macbeth's close friend and ally is astute and loyal. Macbeth sees him as a threat. Virtuous and insightful.

**Duncan:** King of Scotland: a strong and respected leader. Murdered in Act 2.

Macduff: A noble soldier who is loval to Duncan and is suspicious of

Malcolm: Duncan's son and next in line to the throne. Dignified and clever.

### 3. Key Terminology

Ironv

		П	D
soliloquy	A speech or passage in a drama when a character on stage speaks to himself or herself, expressing their inner thoughts and feelings.		
hamartia The fatal flaw of a tragic hero.			ty
Tragic hero A heroic character that makes a judgment error that inevitably leads his/her destruction.			
aside A remark or passage in a play that is intended to be heard by the audience but is supposed to be unheard by the other characters o the stage.			
prose	Ordinary writing not organised with rhymes or fixed line lengths (opposite to verse). It is the language that people speak in.		
Dramatic Irony	A character speaks in ignorance of a situation or event known to the audience or other characters		a

### 4. Key Vocabulary Definition Being the person after whom a literary work e.g. novel, play, film is named. eponymous Guilty of, or involving betraval or deception. treacherous A cruel and oppressive ruler. tvrant Having or showing a willingness to act dishonestly in return for money or corrupt Cunning, scheming, and unscrupulous, especially in politics. Machiavellian The development of events outside a person's control, regarded as fate predetermined by a supernatural power. A loss of power, prosperity or status. downfall Unpleasantly proud and behaving as if you are more important than, or know more arrogance than, other people. Excessive pride or self confidence.

### 5. Themes

hubris

manipulate

Macbeth and Lady Macbeth want to be great and powerful, and sacrifice their morals to achieve that goal.	Ambition	
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### Order and isorder

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 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 his wife come to terms with what they've done.

To control something or someone to your advantage, often unfairly or dishonestly.

### Kingship and yranny

In the play, Duncan is always referred to as a 'king' while Macbeth soon becomes known as the 'tyrant'. In Act 4, scene 3 Malcolm pretends that he would make an even worse king than Macbeth. The model king, then, offers the kingdom an embodiment of order and justice, but also comfort and affection. Under him, subjects are rewarded according to their merits, as when Duncan makes Macbeth Thane of Cawdor after Macbeth's victory over the invaders. Most importantly, the king must be loyal to Scotland above his own interests. Macbeth, by contrast, brings only chaos to Scotland-symbolized in the bad weather and bizarre supernatural events—and offers no real justice, only a habit of capriciously murdering those he sees as a threat. As the embodiment of tyranny, he must be overcome by Malcolm so that Scotland can have a true king once more.

### ppearance nd reality

Appearances are deceptive in the play and some characters trust appearances too much. Duncan trusts the wrong men with disastrous consequences. Macbeth trusts the witches and Lady Macbeth manipulates her husband's trust. This fine line between appearance and reality represents the line between good and evil.

The Big Ideas	Notes	The Methods	Notes
Priestley promotes a socialist ideology in which he argues for collective social responsibility.		Priestley uses     contrasts in character,     setting and language to     emphasise the different     conflicts at work in     society.	
Priestley suggests that change is possible, and that hope lies with the younger generation.		2. Priestley uses the characterisation of the Inspector and the family as a means of highlighting his view of different groups in society.	
Priestley <b>challenges</b> <b>existing social</b> <b>hierarchies</b> of class and gender.		3. Priestley uses entrances, exits, beginnings and endings as a means of building and maintaining dramatic tension.	

# Language Paper 1: Explorations in Creative Writing Section A: 4 Questions

### Reading

- What is the text about? Who are the main characters? Where is it set?
   What kind of atmospheres are created? How?
- Annotate the focus of each paragraph: action, dialogue, description, characters.
- Do not answer any questions until you have read the whole text.

# **Q1** Tests your *understanding* of the unseen text.

- · Identify the focus of the question and write it at the start of each line.
- Underline/circle/highlight information relating to the focus.
- Use the information you have identified to complete the sentences.

# Q2 – 8 marks Language analysis

Consider the question before looking for evidence, Two ideas about the extract > opening statement.

- Opening statement to inform evidence choice.
- Remember that evidence supports your ideas.
- Use the '3 Step Approach' to support analysis. Use the following questions:
  - 1) What does the language mean?
  - 2) What do we associate with it?
- 3) What does it suggest in this context?

Avoid 'feature spotting'. The most effective evidence is the evidence which supports your ideas, not the evidence you can 'label'.

# Q3 – 8 marks Structure analysis

### What is the 'journey' of the text?

- Where do we begin? What is established at the start?
- Where do we end? What/who has changed?
- How did we get there? Where did the writer signal this change? (Turning point/catalyst)

### Each paragraph should include:

- What does the writer choose to focus on?
- Why? Why now? How does it relate to/differ from the previous focus?
- Try to refer to another section of the text. Show you are aware of how the whole text links together.

## Q4 – 20 marks Evaluation

- 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!
- Select and annotate 2-3 moments focus+ connotations. (3 Step Approach)
- Refer to introduction. Before using evidence, explain why this moment supports your point. Include evidence last.

### Sentence stems:

The writer first establishes...when they choose to focus on...

It is clear that...

This is established through the writer's use of...

### **Critical Verbs**

Suggests Convevs **Symbolises Highlights** Convevs **Portravs Presents Emphasises** Represents Demonstrates Perpetuated Evokes **Denotes** Illustrates **Develops** Infers **Implies** Connotes References Perpetuates

Alludes to

# Language Paper 2: Writers' viewpoints and perspectives

# Section A: 4 Questions

# Reading

You will have to read 2 sources, one of which will be a 19<sup>th</sup> century text Look at the source information to determine the form and purpose of each text

Do not answer any questions until you have read the whole text.

# **Q1** Tests your *understanding* of the unseen text (True/False)

- Read the section of the extract carefully
- Track the source the statements occur in order within the text
- Read the questions carefully, some of them will catch you out otherwise

# Q2 – 8 marks Summary of similarities/differences

# <u>This question tests your ability to inferimplicit ideas from the evidence you find.</u>

- · Read the focus carefully
- Find 2-3 pieces of evidence from each source which link to the focus
- Write 2-3 paragraphs using the following sentence starters:
- In source A the writer states...
- From this I can infer... from this I can also infer...
- However/On the other hand/like wise in source B the writer states...

# Q3 – 12 marks Language analysis

# Consider the question before looking for evidence, 3 ideas about the extract > opening statement.

- Opening statement to inform evidence choice.
- Remember that evidence supports your ideas.
- Use the '3 Step Approach' to support analysis. Use the following questions:
- 1) What does the language mean?
- 2) What do we associate with it?
- What does it suggest in this context

Avoid 'feature spotting'. The most effective evidence is the evidence which supports your ideas, not the evidence you can 'label'.

# Q4 – 16 marks Comparison of ideas/perspectives

- 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
- Using the 3 perspectives from each source write your introduction.
- Write up 3 comparative paragraphs using the following structure:
- 1. Make a point about the writer's perspective for source A;
- 2. Name the writer's method and include your evidence;
- 3. Analyse how your evidence shows the writer's perspective;
- Write a comparative point about the writer's perspective for source B;
- 5. Name the writer's method and include your evidence;
- **6.** Analyse how your evidence shows the writer's perspective

### **Critical Verbs**

Convevs

Connotes

Develops

Denotes

Demonstrates

**Establishes** 

Explores

**Evokes** 

Highlights

Infers

Portravs

Presents

Represents

Feeling

Perspective

### Y11 French – GCSE Theme: The environment

A.	Introducing the topic	
1	II existe	There exists
2	Il y a beaucoup de	There are a lot of
3	Malheureusement	unfortunately
4	comme	As/ such as
5	Ce qu'on peut dire	What one can say is
6	Je crois que	I believe that
B.	Key verbs	
1	aider	To help
2	arrêter	To stop
3	manifester	To protest
4	protéger	To protect
5	sauver	To save

C.	Opinions for the future	
1	Je veux aider	I want to help
2	J'espère sauver	I hope to save
3	Je voudrais manifester	I would like to protest
4	J'aimerais arrêter	I would like to stop
5	Je veux utiliser	I want to use
D.	Connectives	
1	Pro et contre	For and against
2	Mais/ou	But/or
3	Puis	then
4	Cependant/pourtant	However

E.	solutions	
1	II faut/ on doit	One must
2	On peut	One can
3	recycler	recycle
4	trier les déchets	Separate rubbish
5	consommer moins d'énergie	Use less energy
6	utiliser le papier reclyclé	Use reclcled paper
7	utiliser les transports en commun	Use public transport
8	aller au collège en vélo	To go to school by bike
9	aller au collège à pied	To go to school on foot
10	réutiliser les sacs en plastique	Reuse plastic bags
11	économiser de l'eau	Save water
12	protèger l'environnement	Protect the environment
13	sauver la planète	Save the planet
14	aider les animaux	Help animals
15	éteindre les appareils électroniques	Switch off electrical devices
16	Donner de l'aide	Give aid
17	Prendre la résponsibilité	Take responsibility
18	Mèner une vie saine	Lead a healtyh life
F.	Local and global places	
1	À l'étranger	abroad
2	En ville	In town
3	En banlieue	On the outskirts
4	Au bord de la mer	By the seaside

G.	Positive adjectives	
1	génial	great
2	formidable	wonderful
3	incroyable	unbelievable
4	chouette	great
5	merveilleux	marvellous
6	unique	unique
7	extraordinaire	extraordinary
8	fascinant(e)	fascinating
9	Le meilleur	Le best
10	fabuleux (euse)	fabulous
11	bien organisé	well-organised
12	utile	useful
13	responsable	responsible
14	Plus utile	More useful
H.	Environmental problems	
1	Le changement climatique	Climate change
2	Les indonations	floods
3	Du bénévolat	Charity work
4	La terre	The earth
5	Les incendies	fires
6	La sécheresse	drought
7	La marée noire	Oil slicks
8	La surpopulation	overpopulation

1.	Negative adjectives	
1	catastrophe	tiring
2	sérieux	boring
3	désagréable	unpleasant
4	dangereux	demanding
5	agaçant	stressful
6	chocant	ridiculous
7	évitable	dangerous
8	déprimant	depressing
9	impossible	impossible
10	dommage	badly paid
11	inquiétant	worrying
12	nul	rubbish
13	inutile	useless
14	casse-pieds	a pain
J.	Environmental problems continued	
1	La circulation	traffic
2	La pollution de l'air	Air pollution
3	La destruction des fôret tropicales	Destruction of rain forests
4	La disparation des escpèces	Loss of animal species
5	C'est notre résponsibilité	Its our responsibility
6	C'est notre planète	Its our planet
7	Pour les générations futures	For future generations
8	C'est une question de temps	It's a question of time

### Y11 - French Knowledge Organiser

A.	General opinio	ons
1	Je crois que	I believe that
2	Je vois que	I see that
3	Je dirais que	I would say that
4	Je pense que	I think that
5	Selon moi	From my point of view
6	Quant à moi	In my opinion
В.	Expressing fee	elings
1	Ça m'inquiète	It worries me
2	J'ai besoin de	I need
3	Ça m'énerve	It gets on my nerves
4	J'en ai marre de	I'm fed up of
5	Je suis d'accord	I agree
C.	Opinions for t	he future
1	Je veux	I want
2	J'espère	I hope
3	J'ai envie de	I feel like
4	J'aimerais	I would like
5	Ça me dit de	I fancy
D.	Basic opinions	
1	Je suis pour	I am for
2	Je suis contre	I am against
3	Il vaudrait	It would be
	mieux	better
4	Je n'aime pas de tout	I really don't like

E.	Connectives	
1	aussi / en plus	also
2	pourtant	however
3	toutefois	however
4	malgré	despite
5	de l'autre coté	on the other hand
6	par la suite	therefore
7	donc	so
8	à cause de	due to
9	cependant	however
10	malheureusement	unfortunately
11	heureusement	fortunately
12	également	equally
13	par example	for example
14	en fait	in fact
15	même	even
16	car	because
17	parce que	because
18	puisque	because
F.	Opinions using cor	mparisons
1	Ce que j'aime le plus	What I like most
2	Ce qui est bien / mauvais	The good / bad thing is that
3	Le meilleur / Le pire est que	The best / worst thing is that
4	La chose la plus importante	The most important thing

G.	Positive adjecti	ves
1	merveilleux (euse)	marvellous
2	formidable	wonderful
3	incroyable	unbelievable
4	chouette	great
5	divertissant(e)	entertaining
6	unique	unique
7	extraordinaire	extraordinary
8	fascinant(e)	fascinating
9	passionnant(e)	exciting
10	fabuleux (euse)	fabulous
11	agréable	pleasant
12	utile	useful
13	sympa	nice
14	gentil(le)	kind
	Positive reason	
1	Ça me fait rire	It makes me laugh
2	Ça me détend	It relaxes me
3	Ça me plait	It pleases me
4	Ça m'a plu	It's my passion
5	Je me suis éclaté	I have a wicked time
6	Je me sens bien	I feel good

	Negative adjecti	ves
1	pénible	annoying
2	barbant	boring
3	désagréable	unpleasant
4 5	énervant	annoying
5	agaçant	stressful
6	ridicule	ridiculous
7	dangereux	dangerous
8	déprimant	depressing
9	impossible	impossible
10	bête	silly
11	inquiétant	worrying
12	nul	rubbish
13	inutile	useless
14	casse-pieds	a pain
	Negative reason	
1	Ça me fait pleurer	It makes me cry
2	Ça ne vaut pas la peine	It's not worth it
3	Ça m'inquiéte	It worries me
	Je m'ennuie	I get bored
5	Ça me fatigue	It tires me out
6	Ça m'embête	It irritates me

1.	Wave fea	Wave features					
Swash		Movement of a wave up the beach. The direction is dependent upon the wind direction.					
Backwash		Movement of a wave back down the beach, this happens at 90°.					
Constructive wave		Have a strong swash and weak backwash; they cause deposition.					
Destructive wave		Have a weak swash and strong back wash; they cause erosion.					
Fetch		The distance a wave has travelled.					

2.	Headlands and bays					
Geology		Different rock types e.g. resistant rock such as granite, and less resistant rock such as clay.				
Headland		Resistant rock which is not easily eroded so sticks out to sea.				
Bay		Soft rock which is easily eroded so retreats to form a bay.				

3.	Types	of erosion					
Hydraulic action		Waves compress pockets of air in cracks in a cliff, causing the crack to widen, breaking off rock.					
Abrasion		Eroded material is hurled or scrapes against the cliff, breaking off rock.					
Attrition		Eroded material in the sea, hit into each other breaking down into smaller pieces.					
Solution		Cliffs e.g. chalk dissolve in seawater.					

### Year 11: Coastal change and conflict

	4. Other coastal processes		7. Caves stacks and arches		and arches				
	Transpo	Transportation The move		The move	ment of sediment.	Crack			A weakness in the headland is eroded by hydraulic pressure, forming a cave.
	Deposition		When waves drop the sediment they are transporting, either due to a loss of energy or change in direction of		Cave			This is eroded further, until the cave erodes all the way through the headland forming an arch.	
1	coastline.		Arch			The roof of the arch has no support, so collapses to form a stack.			
1	Longsho	ore ann		zig-zag mo	ment of sediment along the coastline in a stion, due to the wind & swash occurring at the beach.	8.	Spits		
$\frac{1}{1}$	process  Salt weathering The reprock, du  Chemical weathering Breakdo		Breaking of processes	lown of rocks by physical and chemical	coastline de Hooked ends Fo			Leads to material transported by longshore drift being deposited into the sea, forming a spit.	
				ted formation of salt crystals in cracks in the othe evaporation of seawater.				rm on a spit due to a change in the direction of the evailing wind.	
			ng	Breakdowi	n of rock by changing its chemical n.			area of salty marshland found behind a spit, which has ed out as the sea can no longer reach this area.	
1	Biologica	al weather	ing	Breakdowi	n of rock by living things.	9. Coastal man		nana	gement
$\frac{1}{1}$	Mass M				of rocks and loose material down a slope or e to gravity.		Hard engineering		Human-made structures that help to deal with coastal erosion, such as:
_	5. Wave cut platforms			]			Sea walls, which reflect the waves energy back out to sea     Groynes, which trap longshore drift.		
	Wave co	ut notch		hese form at the foot of a cliff due to erosion. This undercuts be cliff above leaving it unsupported.					Adaptations to work with nature, such as:
	Wave cut platform When the unsupported cliff collapses, the process repeats and the cliff retreats leaving a sloping wave cut platform.						Managed retreat, allowing the coast to erode and moving people away.		
	6. Geology and climate								
$\perp$	Concord	Concordant coastline Made up of alternating bands of hard and so			oft rock that are parallel to the coast, eroded at the same rate.				

Erosional landforms are more common, because of bands of alternating bands of rock are eroded at different rates.

#### 10. Case study example: Holderness coast, Mappleton

Where?	The fastest eroding coastline in Europe, in east Yorkshire.	
Reasons to pr	otect	Management strategies

Discordant coastline

1.

<ol> <li>Rocks are made of soft rock (till),</li> </ol>	Rock groyne put in place to trap sediment being	l
eroding at 2m per year.	transported by longshore drift, creating a wider beach to	l
<ol><li>The B1242 runs through Mappleton and</li></ol>	absorb the power of the waves.	l
would be expensive to re-route.	Rip-rap has been placed in front of the cliffs to absorb the	l
	wave energy.	l

- Success 1. Good - erosion in front of Mappleton has reduced, so the road has been saved.
- 2. Bad beaches further south have been starved of sediment so erosion has increased e.g. at Great Cowden.

# **GEOGRAPHY** 2 of 2

1.	River lands	capes
Rivers	course	The path that a river takes as it flows downhill.
Long-F	Profile	Shows how the gradient changes as it flows downstream.
Cross-	Profile	What a cross section of a river looks like.
Sedim	ent load	Size and shape of rocks, eg big, jagged rocks in the Upper Course. As the river enters the middle and lower courses, the rocks become smaller and more rounded, until they are tiny particles at the river's mouth.

2.	Drainage b	asin features
Draina	ge basin	An area of land drained by a river and its tributaries.
Source	9	The start of a river.
Mouth		Where the river enters the sea or lake.
Tributa	ary	A small river than joins a larger river.
Conflu	ence	The point at which two or more rivers meet.
Waters	shed	The dividing line between two drainage basins.

3.	Kivei	profile
Upper		The narrow, steep, upper part of a river, contains waterfalls.
Middle course		The wider, deeper channel, contains meanders and ox-bow lakes.
Lower		The widest, flattest part of the river, near the mouth, contains the floodplain.

### Year 11: River processes and pressures

4.	Types of	erosion
Hydraulio	caction	The sheer force of the river causing the bed and banks to erode.
Abrasion	ı	Material carried by the river erodes by scraping along the bed and banks.
Attrition		Eroded material carried by the river, hits into each other breaking down into smaller pieces.
Solution		The acids in the water causing erosion.

6.	Waterfall – uppe	er course
Plunge p	oool	A pool which forms at the bottom of a waterfall, undercutting the hard rock above.
Gorge		A steep sided valley left behind when a waterfall retreats up stream.
Interlock	ing Spurs	They form when a river isn't powerful enough to erode laterally (across) into the hillsides that stick into its path. Instead, it has to wind around them.

7.	Meande	r – middle course
Slip off slop	е	The sloping bed of a meander, from the inside (shallow) to the outside (deep).
River cliff		The undercut bank on the outside bend of a meander.
Ox-bow lake	е	Erosion causes the outside of bends of a meander to get closer together, leaving a small bit of land left (the neck).

8.	Floodplain – Id	ower course
Silt		The fertile, eroded material transported by a river.
Levees		Banks found at the side of a river in the lower course.

_			
	5.	Other river proce	esses
	River loa	ad	The material which the river is transporting.
1	Transpor	rtation	The movement of material by the river.
1	Deposition	on	When a river loses energy so drops it's load.
	Lateral e	rosion	When erosion moves across the land, causing the bends of meanders to widen.
	Vertical e	erosion	Erosion which takes place downwards into the land.

9.	Drainage basin pro	cesses
Precipita	tion	Liquid that falls from the sky e.g. rain, snow, hail.
Intercept	ion	When the leaves of trees stop precipitation reaching the ground.
Surface i	run-off	The movement of water overland back into a river.
Surface s	storage	Water stored on the surface in lakes or puddles.
Infiltration	n	The movement of water from the surface into the soil.
Through	flow	The movement of water through the soil back into the river.

10		River application	
	River discharge	River flood risk	River management
previou Lag tim and pea Land-u	dent conditions – Previous conditions, eg s wet weather. ne – The time between peak (highest) rainfall ak (highest) discharge. se change – humans changing the land, eg nnisation or deforestation.	Saturated ground – Full of water and cannot absorb any more.  Urbanisation – The process by which urban areas grow.  Permeable rock – Water can pass through Impermeable rock – Water cannot pass through	Hard engineering – Building man-made structures to control the flow of rovers and reduce flooding.  Soft engineering – Using knowledge of a river and its processes to set up schemes to reduce the effects of flooding.  Embankments – High banks near rivers that stop it flooding.

RO22 - Communicating and working with individuals in health, social care and early years settings LO3: Be able to communicate effectively within a health, social care ad early years setting

Why practitioners in the health, social care and early years settings need to communicate clearly

- 1. Showing value and respect to the individuals. This could be done by:
  - · Leading by example
  - · Listening attentively
- Recognising differences
   Showing value and respect will

Showing value and respect will create a professional impression

3. To give information.

Example: about changes in an individuals circumstances

5. To obtain information.

Example: about an individual's intellect and language needs

Reasons

2. Ensuring the comfort of the individuals.

Example: taking into consideration the individuals preferences.

Knowing the preference before can ensure a positive interaction

4. To express ideas, thoughts and feelings

 To exchange information between practitioners and individuals, e.g. about individual's physical and emotional well-being

	History	- Knowledge Or	raaniser		K	ey terms		Definition	
				1	Со	nstitution	, -	et of rules for running s was called The Weir	,
	y11 - Weimar	and Nazi Germ  Key Individuals	any c1918-29	2		ie Weimar Republic	l	ne for Germany from 1 r the town of Weimar	
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2	Karl Liebknecht	Soviet-style work	kers' councils like	6	R	ight wing		ition of people who thi here is more inequalit	
		A member of The	Freikorps who	7	L	eft wing	be high so tl	ition of people who thi here is more money to	help people.
3	Ernst Rohm	Hitler's private a protected him.	,	8	Re	parations	agree £6.6 l	pair damage. Germany billion to repair WW1	damage.
4	Gustav von	Right wing leader Lossow who told t	the police about	9	R	eichstag	the governm	sion of The House of ( ent votes and decides	laws.
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un	P18 Germany surrenders conditionally and Kaiser abdicates.	Jan 1919 Spartacist Uprising defeated by The Freikorps.	1922 Dr Wolfgang Putsch fails af workers in Berlin p the city with st action.	ter aralys		1923 Hitler Munich Puts fails. Hitler imprisoned a Nazi Party banned.	ch r nd	April 1924 Dawes Plan. USA loans \$25 billion to German industry to help reparations.	October 1929 Wall 5t Crash. America recalls loans from Germany. Start of The Great Depression

Vill - Weimar and Nazi Germany c1929-39			Definition		Key terms		raaniser	ry - Knowledge O	Histor	
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### 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 Whereas Nevertheless Alternatively Consequently

But Since Yet Therefore Besides

Meanwhile Nonetheless However Although 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.

11 o'clock Aren't Can't Couldn't Didn't Doesn't Don't Hadn't Hasn't Haven't He'd He'll He's How'd	l'd l'm lsn't lt'd lt'l lt's Mightn't Mustn't She'd She'll She's Shouldn't They'd	We'd We'll We're Weren't What's When's Where'd Who'd Who'll Who's Why'd
How'd How's	They'd They'll	Why'll
	,	Why's

### 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, vet, 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
- Although the rain had stopped, the pitch was still water-logged.
- Paul enjoys Music, however, he is more proficient in Art.

### 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
meat/meet	wear/wnere witch/which

### **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

☐ 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 -
  - Kev words list
  - · Frequently used words list
  - Your own word bank
- 7. Ask a friend or teacher
- 8. To learn it: look, cover, write, check
- 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		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	?	goes at the end of a question
Exclamation	1.0	goes at the end of a dramatic
mark		sentence to show surprise or shock
Apostrophe	1	shows that letter(s) have been left out
		or indicates possession
Speech marks	un	indicate direct speech, the exact
		words spoken or being quoted
Colon	- :	introduces a list, a statement or a
		quote in a sentence
Semicolon	- ;	separates two sentences that are
		related and of equal importance
Dash / hyphen	-	separates extra information from the
		main clause by holding words apart
Brackets	()	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
- -1 1 7 1
- •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 deed because
- •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

#### <u>Its</u>

**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:

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

### MATHS FOUNDATION 1 of 2

### Pythagoras' Theorem

$$a^2 + b^2 = c^2$$

Only applies to right angled triangles.

Can be used to find the height of an isosceles triangle

Can be used to find the length distance between two coordinates

### Trigonometry

$$S\frac{O}{H}C\frac{A}{H}T\frac{O}{A}$$

Example - finding a side:

$$\sin 37 = \frac{x}{5}$$



 $x = 5 \times \sin 37^{0}$ 

### Example - finding a side:

$$\tan y = \frac{3.2}{7.1}$$



 $y = tan^{-1} \left( \frac{3.2}{7.1} \right)$ 

### **Bearings**

Measure from the North

Measured in a clockwise direction

Written using 3 digits

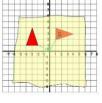
Bearing of B from A (start at A)



Bearing of A from B (start at B)



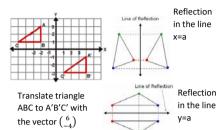
### Transformations - rotation



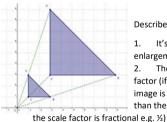
Always use tracing paper. Describe:

- 1. It's a rotation
- 2. Size of rotation in degrees
- 3. Orientations: clockwise or anticlockwise
- 4. Centre of rotation

### Transformations - translations and reflections



### Transformations - enlargement

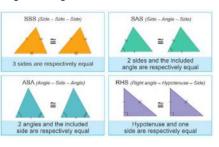


Describe:

- 1. It's an enlargement
- 2. The scale factor (if the image is smaller than the object

The centre of enlargement given as a coordinate

# **Congruent triangles**



# Simple vector notation



a: movement along the x-axis (left or right)

b: movement along the y-axis (up or down)

−a: movement left down

-b: movement

Operations with vectors

$$\binom{2}{6} + \binom{7}{-3} = \binom{9}{3}$$

If 
$$b = \binom{4}{-2}$$
, then  $3b = \binom{12}{-6}$ 

# Similar shapes

Same shape, different sides

The ratio of the lengths of corresponding sides

are equal



Length scale factor =  $15 \div 5 = 3$ 

 $x = 3 \text{cm} \times 3 = 9 \text{cm}$ 

# **Percentages**

# Finding percentages of an amount

1% ÷100

5% ÷20

20% ÷5

25% ÷4

50% ÷2

### Multipliers:

To find the multiplier for a percentage, divide by 100

Use multipliers on a calculator paper

e.g. 35% of 370 = 0.35 x 370

# Increasing and decreasing a given amount

### Calculator:

 $Orginal\ Amount\ x\ mutiplier = new\ amount$ 

Non-calculator: find the increase or decrease and add to the original amount

# Finding percentage increase or decrease (profit/loss)

$$\frac{value\ of\ increase/decrease}{Original} \times 100$$

# Writing an amount as a percentage of the original

$$\frac{Amount}{Original} \times 100$$

Reverse Percentage – finding the original amount

$$Orginal\ Amount = \frac{\textit{New}\ Amount}{\textit{multiplier}}$$

# Algebriac proof - toolkit

Even numbers: 2n, 2n+2, 2n+4,... Odd numbers: 2n+1, 2n+3, 2n+5,...

Sum: add Product: multiply Difference: subtract

Show it's a multiple: factorise

Show it's even: show it's a multiple of 2 Show it's odd: show it's a multiple of 2, plus 1

### **Functions**

*f*(4): *Substitute* 4 *into the function* 

f(g(x)): Substitute g(x) into f(x) i.e. replace all values of x in f(x) with the entire function g(x)

e.g. 
$$f(x) = 2x + 3$$
,  $g(x) = x - 3$ ,  $fg(x) = 2(x-3) + 3$ 

# Iteration - showing a root lies between 2 points:

If there is a change in sign for y for two particular values of x then we can say there is a root between these values of x and we can say that the equation f(x) = 0 will have a solution between these two values of x.

# Solve quadratic inequalities

e.g. solve  $x^2 + 5x - 24 \ge 0$ 

- 1. Factorise:  $(x + 8)(x 3) \ge 0$
- Solve: x = -8, x = 3
   Sketch the graph
- 4. Values that satisfy the inequality  $x \le -8$ ,  $x \ge 3$

# **Bearings**

Measure from the North

Measured in a clockwise direction

Written using 3 digits

Bearing of B from A (start at A)



Bearing of A from B (start at B)



# **Circle Theorems**



Angle at the centre is twice the angle at the circumference



Angles in a semicircle are 90°.



Angles in the same segment are egual.



Opposite angles of a cyclic quadrilateral add up to 180).



Alternate segment theorem.

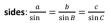


Tangents from an external point are equal in length.

The tangent to a circle is perpendicular (90°) to the radius

### Sine rule

angles: 
$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$





# Cosine rule

$$a^2 = b^2 + c^2 - 2bc \cos A$$

Area of a triangle

$$\frac{1}{2}ab\sin C$$

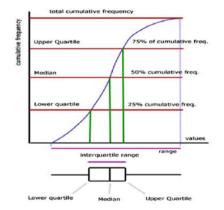
# **Exact Trig values**

Angle (θ)	$sin(\theta)$	$cos(\theta)$	tan(θ)
0°	0	1	0
30°	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
45°	$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$	1
60°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	√3
90°	1	0	undefined

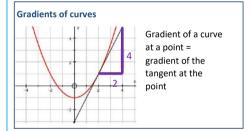


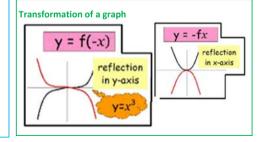
# Histograms FD = Frequency density $FD = \frac{Frequency}{Class \ Width}$

# **Cumulative Frequency Diagrams and Box Plots**









Generic:	Performing Arts:	Science:
☐ I think ☐ In my opinion ☐ I agree/disagree with because ☐ The answer is because ☐ Another way of looking at this is	☐ Within my performance I ☐ I would suggest they to improve their performance ☐ They use these techniques in their work to show	☐ I can conclude from the data that as increases/decreases, increases/decreases. ☐ The pattern the data shows is ☐ One key fact from the topic was
Art:	Maths:	
☐ To further develop my idea, I could ☐ In my opinion ☐ I have taken inspiration from	☐ is incorrect because ☐ Another way to work this out is ☐ The mistake is that	Technology:  ☐ The design could do with ☐ Aspects I found difficult were ☐ If I were to do this again I would
	EAL:	
PE:	☐ I like because	Music:
☐ This is a strength because ☐ This is a weakness because ☐ I conclude	☐ I don't like because ☐ I think	☐ As I listened to the music, I felt ☐ This sounds like
	History:	☐ I would suggest they to improve their performance
IT:		
	☐ This links to my next point because	
☐ I agree/disagree with because ☐ The answer is because ☐ I could have improved my work by	☐ This links to my next point because ☐ The source is a ☐ The source was made in	Geography:
	☐ The source is a	Geography:  An example of this is  This means that One positive/negative reason

# BTEC Tech Award Performing Arts /Component 2

# Structure of the Component

You will develop your knowledge and understanding of a performance style by participating in workshops and rehearsals. You will replicate a professional performance repertoire and perform it to audience.

# What I will need to do

- Attend and participate in a series of workshops.
- Watch and analyse a piece of professional performance repertoire.
- Learn and rehearse a piece of professional performance repertoire.
- Record your progress in a log book

	Key Term	Explanation
1	What is a professional performance	A professional performance repertoire is a performance created by and performed by professionals
	repertoire?	

	Key Term	Explanation	
2	Skills audit	A skills audit demonstrates what skills you are good at and what you need to improve on	
3	Long term targets	Identifying areas to develop and review throughout the rehearsal and performance process	
4	Strengths	What were you good at?	
		Why were you good at it?	
		What evidence do you have to demonstrate this?	
5	Areas to develop	What did you find difficult?	
		Why did you find it difficult?	
		What evidence do you have to demonstrate this?	
6	Target setting	How will you improve your areas to develop?	
		What activity will you do to improve?	
		What impact will this have?	
		SMART (specific, measurable, attainable, realistic, time)	
7	Responding to feedback	What did your teacher or peers tell you that you were good at / needed to improve on?	
		What did you do about it?	

	Command word	Definition
9	Demonstrate (pass)	Show that you can do a particular activity or skill
10	Describe (pass)	Give a clear, straightforward description which includes all of the main points.
11	Explain (merit)	Give logical reasons to support your view.
12	Analyse (distinction)	Identify several relevant factors, show how they are linked, and explain the importance of each.

	P5 – Forces and	Taught in Y10
	motion	
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.
		displacement, velocity, acceleration.
3	Force (F)	A push or pull on an object due to the interaction with
	0 1 16	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 springs.
12	Moment of a force (M)	The turning effect of a force.
	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
14	٨	with it.
15	Distance	The total distance travelled by an object. Distance is a
13		scalar quantity.
16	Displacement	The distance in a straight line from start point and end
47	Connect	point. Displacement is a vector quantity.
17	Speed	How fast an object is moving. Speed is a scalar quantity.
18	Velocity Acceleration	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	itewton 5 rnst Law	remains in motion with the same speed and same
20		direction unless acted upon by an external force.
		The acceleration of an object is proportional to the force
21		on the object and inversely proportional to the mass of

		the object. The bigger the force the bigger the acceleration, the bigger the mass the smaller the acceleration.
22	Newton's Third Law	Every action has an equal and opposite reaction. When two objects interact the exert an equal and opposite force on one another.
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 applied the brakes.
26	Momentum	A property of moving objects linked to the mass and velocity of the object.
27	Conservation of momentum	In a closed system the momentum before an event is equal to the momentum after the event.
28	Closed system	This is where the objects in focus can be considered closed off from the rest of the world.

	P6 Waves key words		
1	Wave	A transfer of energy from one place to another. No matter is transferred by a wave.	
2	Transverse wave	A wave in which the vibration is perpendicular to the direction of energy transfer.	
3	Peak	The top of the wave.	
4	Trough	The bottom of the wave.	
5	Amplitude	The displacement of the wave from the mid-point. The distance from the mid-point of the wave to the peak or trough.	

	Longitudinal wave	A wave in which the vibration is parallel to the direction of energy transfer.
6		This wave is moving in this direction  Wavelength  This wave is moving in this direction  Wavelength  Rarefaction
7	Compression	An area of increased pressure in a longitudinal wave. Where particles are closer together.
8	Rarefaction	An area of decreased pressure in a longitudinal wave. Where particles are further apart.
9	Wavelength	The distance from a point on one wave to the identical point on an adjacent wave. e.g. peak to peak or trough to trough on a transverse wave. Compression to compression on a longitudinal wave.
10	Period	The time taken for one complete wave to pass a point. Measured in seconds.
11	Frequency	The number of waves that pass a point in a second. Measured in Hertz (Hz).
12	Wave speed	The speed at which a wave travels. Measured in meters per second (m/s).
13	Reflection ^	The bouncing of a wave off an object e.g. a mirror for light.
14	Transmission ^	The passing of a wave through a medium (object or substance).
15	Refraction ^	The change in direction of a wave, due to the change in speed of a wave, when it enters a new medium (substance or object). This is a form of transmission.
16	Absorption ^	An object absorbing the energy in a wave. The wave ceases to exist if it is absorbed. Absorption causes an increase in temperature.
17	Electromagnetic wave	A wave from the electromagnetic spectrum.
18	Electromagnetic spectrum	The differing waves of the electromagnetic spectrum and their decreasing wavelength, increasing frequency.

		Long wavelength → Short wavelength
		Radio waves Microwaves Infrared Visible light Ultraviolet X-rays Gamma rays
		Low frequency → High frequency
19	Lens ^	An object that refracts light to form an image. E.g. glasses, magnifying glass, microscope.
20	Concave lens ^	A lens that is wider at the top and bottom than the middle.
21	Convex lens ^	A lens that is wider an the middle than the top and bottom.
22	Magnification ^	The increase or decrease in size of an image compared to the object.
23	Black body ^	An object that does not emit its own light. All bodies (objects) absorb and emit infrared radiation. The warmer the body (object) the more radiation it emits.
24	Perfect black body ^	A body (object) that absorbs all of the radiation incident upon it. A good absorber will also be a good emitter of radiation, so a perfect black body will also be a perfect emitter of radiation.

	P7 Magnetism and electromagnetism	
1	Permanent magnet	An object that produces its own magnetic field. This will have a north pole and a south pole. Magnetic metals are iron, nickel and cobalt.
2	Induced magnet	A material that becomes a magnet when placed in a magnetic field.
3	Magnetic field	The area around a magnet where a force acts on another magnet or magnetic material (iron, nickel, cobalt). The force between a magnet and magnetic material is always attraction. The force

		between two magnets can be attraction or
		repulsion.
4	Electromagnet	When a current passes through a wire a magnetic
		field is induced around the wire.
	Solenoid	Several loops of wire. Wire is looped to increase
		the strength of the magnetic field around the
		wire, and create a magnetic field similar to that of
		a bar magnet.
5		s N
	Motor effect	When a current carrying a wire is placed inside a
6		magnetic field the two magnetic fields interact
		causing a force on the wire.
	Fleming's left hand rule	A rule used to find the direction of force due to
		the motor effect. Thumb shows direction of force,
		first finger the direction of magnetic field lines,
		second finger the direction of current.
7		Force
′		Magnetic field
		Tall
		Current
		of PCT careary code
	Induced potential ^	When a wire is moved within a magnetic field a
8		potential difference is produced in the wire. If
		the wire is part of a complete circuit a current will
	Generator effect ^	flow.
9	Generator effect A	Moving a coil of wire within a magnetic field
9		creates a potential difference in the wire. This is used to generate electricity in power stations.
	Alternator ^	A generator used to produce an alternating
10	Aitemator	current.
11	Dynamo ^	A generator used to produce a direct current.
	Transformer ^	A device used to increase or decrease the size of
12	Transierine	potential difference and current within a wire.
		potential anterence and current within a wire.

	P8 Space physics – physics only ^		
1	Solar system	Our solar system consists of sun, 8 planets and dwarf planets orbiting the sun.	
2	Milky Way galaxy	The galaxy that our sun and solar system is part of.	
3	Nebula	Cloud of dust and gas that will form a star.	
4	Star life cycle	The cycle that all stars go through from formation to death.	
5	Orbit	The circular motion of an object around another, held a certain distance from the object by gravity.	
6	Doppler effect	The effect of increasing the wavelength from an object as it travels away from a point.	
7	Red-Shift	Stars moving away from us have wavelengths towards the red end of the spectrum due to the Doppler effect.	

# Physics units

	Unit	Symbol	Measured in
1	Mass	m	Kilograms (kg)
2	Volume	V	Meters cubed (m³)
3	Density	ρ	Kilograms per meter cubed (kg/m³)
4	Distance	S	Meters (m)
5	Time	t	Seconds (s)
6	Temperature	Т	Degrees Celsius (°C)
7	Frequency	f	Hertz (Hz)
8	Electric charge	Q	Coulombs (C)
9	Electric current	1	Amperes (A)
10	Potential difference	V	Volts (V)
11	Resistance	R	Ohms (Ω)
12	Speed	V	Meters per second (m/s)
13	Acceleration	a	Meters per second squared (m/s²)
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	P	Watts (W)

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

# Unit 1: Energy

Equations to Learn		
kinetic energy = $\frac{1}{2}$ × mass × speed <sup>2</sup>	$E_K = \frac{1}{2} m v^2 $	
GPE = mass × gravitational field strength × height	$E_p = mgh$	
$power = \frac{work\;done}{time\;taken} = \frac{energy\;transferred}{time\;taken}$	$P = \frac{W}{t} = \frac{E}{t}$	
efficiency = useful energy output total energy input useful power output total power input total power input		
Equations given in the exam		
elastic potential energy = 0.5 × spring constant x (extension) <sup>2</sup>	$E_e = \frac{1}{2}ke^2$	
change in thermal energy = mass × specific heat capacity × 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 = IR
total resistance = resistance of component 1 + resistance of component 2	$R_{\tau} = R_1 + R_2$
power = current × potential difference	P = IV
power = (current) <sup>2</sup> × resistance	$P = I^2R$
energy transferred = power × time	E = Pt
energy transferred = charge flow $\times$ potential difference	E = QV

<sup>\*</sup> Higher tier 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 = image height 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	$\frac{V_P}{V_S} = \frac{N_P}{N_S}$
number of turns in secondary coil	

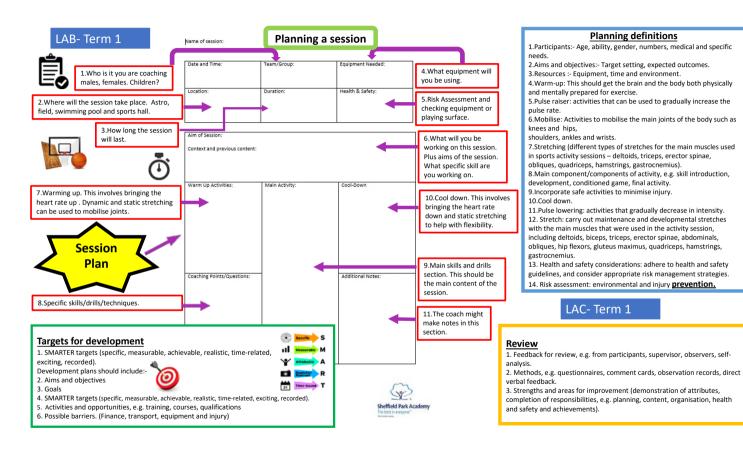
#### Unit 5: Forces

Unit 5: Forces	
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 = change in velocity time taken	$a = \frac{\Delta v}{t}$
= final velocity-initial velocity time taken	$=\frac{v-u}{t}$
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	$p = h \rho g$
$ ^{ \Lambda } \mbox{ (final velocity)}^2 - \mbox{ (initial velocity)}^2 = \\ 2 \times \mbox{acceleration} \times \mbox{ distance} $	$v^2 - u^2$ = 2as
* ^ Force = change in momentum time taken	$F = \frac{m  \Delta v}{t}$

# Unit 4: Atomic Structure & Unit 8: Space

There are no equations in these sections of the course

<sup>^</sup> Separate Physics only



Keywords.

Formal Elements Line, Tone, Colour, Pattern, Shape, Texture and Form

Line Line is the path left by a moving point.

**Shape** Shape is an area enclosed by a line.

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

Pattern A design that is created by repeating lines, shapes, tones

or colours.

Surface texture Refers to the surface quality in a work of art.

Media The material used to create artwork.

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

Stitch and Slash It involves stitching together two or more layers of fabric

one on top of the other in parallel diagonal lines (bias) and

cutting through the top layers leaving the base layer intact.

Mola Is a fabric manipulation method where designs are cut out of

the top layer of fabric and then layers are added underneath.

Silk Painting Designs are outlined with gutta or water-based resists.

Couching In embroidery, couching is a techniques in which yarn or other

materials are laid across the surface of the fabric and fastened in  $% \left\{ 1,2,\ldots ,n\right\}$ 

place with small stitches of the same or a different yarn.

**Embroidery** Using a needle to apply thread or yarn.

Angelina Fibres Are glittery strands that can be incorporated into your wet

felting, needle felting or spinning.

# YEAR 11 TEXTILES KNOWLEDGE ORGANISER – UNIT 3 STREET FESTIVAL.

# Command Words.

**Research** Is the process of solving problems and finding facts in an organised way.

Research is done by what is known and building on it.

Analyse Identify several relevant factors, show how they are linked, and explain

The importance of each.

Method A procedure, technique, or way of doing something.

**Evaluation** Bring together all of 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.

**Develop** To grow or change into a more advanced or stronger form or idea.

# 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.



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