100% book - Year 8 Grammar

Aim to memorise 100% of the knowledge on these Knowledge Organisers



Term 3

Swindon	Academy 2023-24
Name:	
Tutor Group:	
Tutor & Room:	

"If you are not willing to learn, no one can help you.

If you are determined to learn, no one can stop you."











Using your Knowledge Organiser and Quizzable Knowledge Organiser



Don't write on your Quizzable Knowledge Organisers! Quiz yourself by writing the missing words in your prep book. That way you can quiz yourself again and again!

Expectations for Prep and for using your Knowledge Organisers

- 1. Complete all prep work set in your subject prep book.
- 2. Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
- 3. Take pride in your prep book keep it neat and tidy.
- 4. Present work in your prep book to the same standard you are expected to do in class.
- 5. Ensure that your use of SPAG is accurate.
- 6. Write in blue or black pen and sketch in pencil.
- 7. Ensure every piece of work has a title and date.
- 8. Use a ruler for straight lines.
- 9. If you are unsure about the prep, speak to your teacher.
- 10. Review your prep work in green pen using the mark scheme.

How do I complete Knowledge Organiser Prep?



Make sure you bring in your completed Prep notes to demonstrate that you have completed your prep.

<u>'The Tempest' GS Knowledge Organiser</u>

Plot Summary			Vocabulary: Keywords	
he Tempest Act 1, Scene 1 Nonso, the King of Naples, is on a ship with his son Ferdinand and his companions Sebastian, Antonio, Stephano and Trinculo. They are truck by a terrifying, howling storm. They abandon ship and swim to a nearby island but are washed ashore in different places. The island eems to be abandoned.	The End Act 4, Scene 1 and Act 5, Scene A marriage for Ferdinand and Miranda is with a masque attended by spirits. It is int recalls the threat from Trinculo, Stephano and Ariel send spirit dogs to scare them c Sebastian and Antonio meet Prospero. H happening on the island. He shows them	arranged and celebrated terrupted when Prospero and Caliban. Prospero away. King Alonso, e explains what has been	 colonialism – when one country establishes itself in another country. When someone colonises a new country, they are called a coloniser. The original inhabitants of the land are called natives. imperialism - a policy of extending a country's 	
After the Storm Act 1, Scene 2 rom a nearby island, Miranda watches the huge tempest. She lives	who are now married. King Alonso is filled forgiveness from Prospero which he grant	power and influence through colonization, use of military force, or other means.		
vith her father Prospero and has little memory of her life before the sland. Prospero tells his daughter of their past: he was the Duke of Ailan twelve years ago, but he was so involved with his books and ecret studies that he did not realise his brother Antonio was stealing	Epilogue Prospero declares that he will be giving u released from his service. The party trave		usurp – to take control of someone else's power when you do not have the right to. Someone who usurps is called a usurper .	
power from him. One night, Antonio ordered soldiers to take Prospero	know what has happened to Caliban.	I DUCK TO MIIUN. WE US NOT	tempest – a violent storm.	
and Miranda and put them on a boat to their death. But they were vashed ashore this island safely and have lived there ever since. Trospero has been ruler of the island. Prospero has created the storm	Terminology: Keywords comedy – a play that is funny. It has	a happy ending.	treason – a crime that harms your country or government. Someone who commits treason is a traitor .	
o bring his brother to the island. Ariel and Caliban Act 1, Scene 2 into Act 2, Scene 1	soliloguy – when a character is speaking alone on stage to		callous – when someone is cruel and does not care about other people.	
prospero is a powerful magician who controls the spirit Ariel who completes tasks for him. Prospero has agreed to release Ariel after	himself/herself or to the audience.			
his last mission. Caliban is a deformed savage slave who is also order Prospero's control. He is the son of an old witch, Sycorax, and a pativo of the island. Prospero taught Caliban how to speak but	sibilance – figure of speech in which the letter 'S' is repeated. This often creates a hissing sound.		pathos – a situation that makes us feel sympathy or sorrow.	
s a native of the island. Prospero taught Caliban how to speak but Caliban resents the control Prospero has over him.			exploitation – taking advantage of someone for your own benefit	
(ind Alonso Act 2, Scene 1	Characters		nurture – to encourage or support the	
ing Alonso and his younger brother Sebastian, as well as Antonio	Alonso – King of Naples		development of someone or something.	
the usurping Duke of Milan), wander around the island. King Alonso veeps as he believes his son Ferdinand is dead. Sebastian and	Sebastian – Alonso's brother			
ntonio plot to kill Alonso so that Sebastian can be king. They are topped by Ariel's magical intervention.	Ferdinand – Alonso's son		dual nature – having two sides.	
Caliban, Stephano and Trinculo Act 2, Scene 2 and Act 3, Scene 2	Antonio – Prospero's brother. Antonio stole Prospero's title as	Background Informati	on	
he monster Caliban is found by Stephano and Trinculo. They give	Duke of Milan.		ne Elizabethan era, named after Elizabeth I.	
im alcohol to drink and he gets drunk. Caliban offers to serve tephano because he believes he is a god because of the heavenly trink! Caliban explains to them how Prospero has treated him and	Gonzalo – the old counsellor to the King of Naples	After she died, James I bec the Jacobean era, becaus	came king. This period of history is called e Jacob is the Latin for James.	
hat he will be their guide on the island if they overthrow him. The	Trinculo – a jester	Shakespeare lived and wo		
hree drunks go to find and kill Prospero.	Stephano – a drunken butler		ate is an area that is ruled by a major city. I Jacobean era, Italy wasn't one unified	
	Prospero – the rightful Duke of Milan	country, but a number of si	mall independent city-states.	
erdinand and Miranda Act 1, Scene 2 and Act 3, Scene 1	Miranda – Prospero's daughter		ing in the Elizabethan era as people he world. Queen Elizabeth I was obsessed	
erdinand has survived the storm. He is safely on the island and is ound by Miranda. They fall instantly in love. Prospero wants to test hat the love is real. Ferdinand has to endure hard labour to prove his	Ariel – an airy spirit; a slave of Prospero's who earns his freedom	with their discoveries and was happy to pay for their travels. Led b her example, the rest of the country were also fascinated by their stories and goods. Colonialism has had a lasting impact on the wo Many natives were exploited and killed by the white European colonisers. Issues of colonialism; such as racism and slavery are important to the play.		
ntentions are honourable. Miranda pities Ferdinand and wants to narry him. Prospero blesses their marriage.	Caliban – a savage and deformed slave of Prospero's; a native of the island			

<u>'The Tempest' GS Knowledge Organiser</u>

The Tempest Plot Summary	The End Act 4, Scene 1 and Act 5, Scene	1	Vocabulary: Keywords	
The Tempest Act 1, Scene 1	A marriage and celebrated with a masque attended when Prospero recalls the threat from	colonialism –		
	and and , and	moot Prosporo	The original inhabitants of the land are called	
	, drid		usurp –	
After the Storm Act 1, Scene 2 From a nearby,watches the huge She lives			imperialism -	
with her father and has little of her life before the Prospero tells his daughter of their: he was the twelve years ago, but he was so involved with his and secretthat he did not realise his	Epilogue Prospero declares that he will			
was stealing power from him.			tempest –	
	Terminology: Keywords		treason –	
	comedy –			
	soliloquy –		callous –	
Ariel and Caliban Act 1, Scene 2 into Act 2, Scene 1 Prospero is a powerful who controls the spiritwho completes tasks for him	sibilance -		pathos –	
is a deformed savage who is also under Prospero's	Characters in The Tempest Alonso –		exploitation –	
			nurture –	
Kind Alonso Act 2, Scene 1	Sebastian –		dual nature –	
	Ferdinand –			
		Historical Context of T	he Tempest	
Caliban, Stephano and Trinculo Act 2, Scene 2 and Act 3, Scene 2	Antonio –	Shakespeare was born in th	ne era, named after Elizabeth	
The monster is found by Stephano and Trinculo.	Gonzalo –			
	Trinculo –	Italian city states - A -	is an area that isby a	
	Stephano –	major		
	Prospero –		ing in the Elizabethan era as people	
Ferdinand and Miranda Act 1, Scene 2 and Act 3, Scene 1	Miranda –	'discovered' new parts of t	he worldLe	
has the storm. He is safely on the island and is found by	Ariel –	their stories and goods.	of the country were also fascinated by has had a lasting on wereand killed by the white	
	Caliban –	European colonisers. Issues	of; such asand	

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Year 8 Term 3 Science/Biology : Topic 9BB Biological Systems and Processes

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What we are learn	ing this term:	Α.	Mov	vement and muscles			
A. Movement		What are th	he follo	owing:			
B. Breathing andC. Effect of drugs		Ligament	s	Bones are attached	d to each other by lig	jaments.	
	naerobic respiration	Muscles		A collection of tissubones) to move.	ues which can contra	ct and rel	ax, causing other body parts (including
6 Key Words for th		Tendons		Muscles are attach a bone.	ed to bones by tend	ons. They	v are a strong, flexible tissue attaching a muscle to
 Chromosomes Exchange Anaerobic 	4. Respiration 5. Aerobically 6. Cilia	A. How	v does t	the muscular system	help us move?	А.	How do your muscles move your bones?
3. Anaerobic		This system muscles	n allows	s us to move by contra	acting and relaxing ou	r Mu	scles exert a force on bones to move them.
A. What are th	e 4 functions of the Skeletal System?	Α.	What	t is Biomechanics?			
Movement, support, p	rotection and making red blood cells	Biomechani	ics is the	ne working together of t	the skeletal system and	I the musc	ular system to help us move.
		А	Wha	at are antagonistic m	uscles?		
A Support – wh	nat is the main function of the spine?						r arm), muscles are paired antagonistically (one
The spine supports thupright.	ne upper body and allows us to stand	How do the			er in the opposite direct	ion).	
Protection – what is	the function of the following:	1. To r a	aise the	e forearm, the	biceps muscle		Relaxed
Ribcage	Protects the heart and lungs		ps contr ps relax	racts and the kes.		Relaxed	biceps muscle
Cranium (skull)	Protects the brain			e forearm again,		triceps m	uscle
A Making blood blood cells?	d cells – what part of the bone makes		ps relax				*
	es: (which transport O_2 and CO_2) IIs (some of which fight disease)	A. Wh	nat is Os	steoporosis		А.	What happens if you overstretch a tendon?
	cause blood clotting e.g. when we cut		aking the	a condition in which sor eir bones fragile so the		heal th	retching a tendon can cause it to snap. Tendons will emselves but become shorter in the process e the two severed ends overlap to heal, reducing
Why are bones hollo	ow?	What are ri	ickets?	2			y s Tendonitis?
	dy are hollow – in the middle of the vity . The cavity contains bone marrow , roduced.		Rickets	used by a deficiency o s causes bone pain, an		As the	body tries to heal a tendon, it will swell and become This is called tendonitis , and includes tennis

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Year 9 Term 2 Science/Biology : Topic 9BB Biological Systems and Processes

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What we are learning this term:	А.	Movement and muscles
A. MovementB. Breathing and FitnessC. Effect of drugs	What are the Ligaments	e following:
 D. Aerobic and Anaerobic respiration E. Reproduction and Heredity 	Muscles	
6 Key Words for this term	Tendons	
1. 4. 2. 5. 3. 6.	A. How	does the muscular system help us move? A. How do your muscles move your bones?
A. What are the 4 functions of the Skeletal System?	А.	What is Biomechanics?
	Δ	What are antagonistic muscles?

		A	What are antagonistic	muscles?	
Α	Support – what is the main function of the spine?				
		How do they	/ work?	Contracted	
Prote	ection – what is the function of the following:			biceps muscle	
Ribca	age				Relaxed Contracted biceps muscle
Cran	ium (skull)			Relaxed triceps muscle	
					5

A	Making blood cells – what part of the bone makes blood cells?				
		Α.	What is Osteoporosis	Α.	What happens if you overstretch a tendon?
Why	are bones hollow?	What	are rickets?		
				Wha	it is Tendonitis?







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Year 8 Term 3 Science/Biology : Topic 9BB Biological Systems and Processes

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B. What benefits come fro	m regular exercise?	C.	What is a drug?			
Regular training has the following		A drug	is a substance that affects the way your body w	orks	6	
 Heart muscles are strengther Cardiac output increases 		C.	What are the 2 types of recreational drugs, ar	nd w	/hat e	ffect do they have on the body?
heart muscles are stronger)			ants		Depre	essants
Recovery (returning to resting heart rate) happens more quickly after exercise		impu	Stimulants cause the nervous system to carry nerve impulses faster		The	pressants cause the nervous system to slow down ey can decrease reaction times ey can stop vital organs working, and stop parts if the
Why do you breathe quicker duri	ng exercise?	But	y can increase reaction times can also speed up heart rate, and put strain on the		bra	in working
More oxygen is required as body	is working harder.	body Example	y es include: Caffeine, Cocaine, Ecstasy		xamp	les include: Alcohol. Heroin, Solvents
D. What is Respiration	?				D.	What is fermentation?
Respiration is a chemical reaction	n that releases energy from food	molecules.][n plants/yeast respire anaerobically, they produce nol and carbon dioxide.
Why is respiration important?				41	Wha	t are the uses of fermentation?
An organism can the use the ene 1. To build large molecules fro 2. To move 3. To keep warm	ergy produced by respiration is se	everal differe	ent ways including:			useful as the ethanol can be used to make alcoholic s and the carbon dioxide is what makes bread rise.
What are the 2 types of respira	tion?			1[E.	Who discovered DNA?
	Aerobic		Anaerobic		Rosa	alind Franklin and Maurice Wilkins 1952
Main difference?	With Oxygen		Without Oxygen		high-	g x-ray photography, Franklin and Wilkins produced resolution photographs of DNA fibres. They used to deduce that DNA had a helical structure and
Where does it take place?	Mitochondria		Cytoplasm			the outside of the molecule contained phosphates
What is the equation?	glucose + oxygen \rightarrow carbon d	lioxide + wat	er In animals: glucose → lactic acid			es Watson and Francis Crick 1953
			In plants/yeast: glucose → ethanol and carbon dioxide		mode doub	g the x-ray data from Wilkins and Franklin, and using els, Watson and Crick managed to discover the ele-helix structure of DNA. They and Wilkins were
Which produces the most energy?	Aerobic respiration produces r	more energy	Anaerobic produces less energy		awar	ded the Nobel Prize in 1962.
				╡┟	Ε.	What is DNA?
D. What happens whe	n Lactic Acid builds up in muse	cles from ar	naerobic respiration?			<pre>syribonucleic acid – the genetic material of all nisms</pre>
How does the body get rid of la	5			+[Wha	t is a double helix?
We continue to have an elevated		er exercise s em to work e	so that more oxygen enters the cells. This oxygen efficiently again.		Two	helical strands wound around each other

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B. What benefits come from regular exercise?	С.	What is a drug?	
		·	
	C.	What are the 2 types of recreational drugs, and	what effect do they have on the body?
When do you know the swidter during superior?			
Why do you breathe quicker during exercise?			
D. What is Respiration?			D. What is fermentation?
Why is respiration important?			What are the uses of fermentation?
			E. Who discovered DNA?
What are the 2 types of respiration?			E. Who discovered DNA?
Main difference?			
Where does it take place?			
What is the equation?			
Which produces the most			
energy?			E. What is DNA?
D. What happens when Lactic Acid builds up in mus	cles from an	naerobic respiration?	
			What is a double helix?
How does the body get rid of lactic acid?			



Year 8 Term 3 Science/Biology : Topic 9BB Biological Systems and Processes

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E. What makes up DNA?	E. What is Gestation?	
 DNA has a double helix structure with two sugar-phosphate backbones wound around each other. Pairs of complementary bases connect the two backbones (strands) 	Gestation describes the development of a foetus in the womb.	prenatal week Embryonic stage Fetal stage Full term
What are the 4 bases and how are they paired?	What does a foetus need to develop?	CENTRAL NERVOUS SYSTEM
 The bases are adenine, thymine, cytosine and guanine (A, T, C, and G) A has a complementary choice to T 	In order to do all of this growing, the foetus needs to get nutrients and oxygen .	HEART
 A has a complementary shape to T C has a complementary shape to G 	How does a foetus get what it needs to develop?	LOWERLIMES
What are Chromosomes?	Since they can't eat or breathe, they get this from	PALATE
DNA wound up tightly. There are 23 pairs in human cells (but a different number of pairs in other species)	the mother's blood. Nutrients and oxygen diffuse from the mother's blood into the baby's blood vessels, then umbilical	EARS
What are Genes?	cord in the placenta.	
A short section of DNA which codes for characteristics	What is the Placenta?	What is the Umbilical cord?
	An organ which develops during pregnancy, and supplies the developing foetus with oxygen and nutrients, while also removing waste.	A tube which connects the baby to the placenta.
	E. How can an expectant mother's behaviour affect	t her unborn baby?
Cell Nucleus Chromosome DNA Gene (Segment of DNA)	The mother's behaviour during gestation can affect the develo substances across the placenta.	pment of the unborn baby because of the transfer of

E.	What are the different types of reproduction and how are they different?						
		Sexual reproduction	Asexual reproduction				
How ma	any parents?	2 parents	1 parent				
Will offs features parents		Offspring have features of both parents	Offspring are clones of the 1 parent				

E. What is Heredity?

Heredity is the process by which genetic information is transmitted from one generation to the next

What is a Genetic Disease?

Genetic diseases are passed on from parents to children through their genetic material. Children will be born with the disease

What problems can be caused by different drugs during gestation?

Cigarettes	Alcohol			
 Reduces the volume of oxygen which reaches the baby's cells, affecting their ability to release energy. (Nicotine narrows blood vessels, Carbon monoxide in smoke inhibits red blood cells from carrying oxygen) Increases the risk of premature (early) birth, stillbirth (death of the foetus), cot death (death of the new-born) and low birth weight caused by growth impairment 	 Physical defects e.g. small head size, low birth weight Cerebral palsy (movement and coordination problems) Behavioural differences including autistic traits and attention-deficit hyperactivity disorder (ADHD) Problems with organs including the liver, kidneys, and heart Learning difficulties 			
Children whose mothers smoked during gestation	Other illegal drugs			
are more likely to experience: learning disorders behavioural problems low IQ asthma 	Neonatal abstinence syndrome occurs when a mother has taken a drug which causes dependency , during gestation. The baby is born with a dependency on the drug.			

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Year 8 Term 3 Science/Biology : Topic 9BB Biological Systems and Processes

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Ε.	What makes up DNA?	Е.	What is Gestation?				
	are the 4 bases and how are they paired? are Chromosomes?		does a foetus need to develop? does a foetus get what it needs to develop?	prenatal week: Embryonic stage Fetal stage Full term 3 4 5 6 7 8 9 16 32 38 CENTRAL NERVOUS SYSTEM			
What	are Genes?		is the Placenta?	What is the Umbilical cord?			
INSIDE THE CELL Cell Nucleus Chromosome DNA Gene (Segment of DNA)			E. How can an expectant mother's behaviour affect her unborn baby?				
E.	What are the different types of reproduction and how are they different?	What problems can be caused by different drugs during gestation? Cigarettes Alcohol					
Will of	hany parents? fspring inherit es from			Other illegal drugs			
What	is a Genetic Disease?						





What	we are learning this term:	В.	B. What differences are there between metals and non-metals?							
В. М	ymbol equations letals and non-metals eactivity of metals			Metals	Non-metals					
	isplacement reactions	found	re are they d in the	Metals are found on the left of the periodic table	Non-metals are found on the right han side					
8 Key	Words for this term	perio	dic table?							
1. Rea 2. Pro 3.Salts	duct 6. Properties		t charge do form?	Metals form positive ions (Lose electrons)	Non-metals form negative ions (Gain electrons)					
4. Dis	placement 8.Electrolysis	В.	What prod	ucts are made when a metal reacts with a	acid?					
Α.	What is a symbol equation?	Whe	en a metal re	acts with acid, a salt and hydroge	n gas are made.					
	bol equation is a short-hand way of showing a chemical on using chemical symbols	Wha	t is a salt?							
	<u> </u>	A co	A compound where a metal is bonded to a non-metal – example is sodium chloride							
	would the symbol equation be? sium + Chlorine \rightarrow Potassium Chloride	Wha acid		d and symbol equations for the reac	tion of Sodium metal with Hydrochloric					
2K + C	$Cl_2 \rightarrow 2KCl$		S	odium + Hydrochloric acid→ Sod	ium Chloride + Hydrogen					
Why are symbol equations important?			2Na +2 HCl → 2NaCl + H ₂							
	hey are a quick way of showing a reaction.									
• Yo	hey are universal – all languages recognise them ou can see how many of each molecule is used in the eaction if you balance it	C. What is the reactivity series?								
		A tab	le which rank	s metals on relative reactivity.						
В.	What products are made when a metal reacts with water?	Can you come up with a way to remember the order of the metals in the reactivity series?								
	e metals are so reactive they react with water. The ucts are hydrogen gas and a metal hydroxide	orde	or the metals	s in the reactivity series?	sodium Na calcium Ca magnesium Mg					
	What are the word and symbol equations for the reaction of Sodium metal with water?		otassium odium thium alcium	Very reactive	aluminium Al carbon C					
			agnesium luminium	React with acids	zinc Zn iron Fe tin Sn					
So	dium + Water → Sodium Hydroxide + Hydrogen 2Na +2 H ₂ O → 2NaOH + H ₂	Zi In Ti Li	on	React with oxygen	lead Pb hydrogen H copper Cu					
Whic	h metals have a strong reaction with water?	- M Si	opper ercury Iver		silver Ag gold Au platinum least reactive Pt					
		G	bld	Very unreactive	Provincing resource FL					

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	B. What differences are there between metals and non-metals?							
What we are learning this term:	B. What differences are there between metals a	Ind non-metals ?						
A. Symbol equationsB. Metals and non-metalsC. Reactivity of metalsD. Displacement reactions	Metals Where are they found in the	Non-metals						
8 Key Words for this term	periodic table?							
1. Reactant5. Reactivity2. Product6. Properties3.Salts7. Extraction	What charge do they form?							
4. Displacement 8. Electrolysis	B. What products are made when a metal reacts wi	th acid?						
A. What is a symbol equation?								
	What is a salt?							
What would the symbol equation be?								
Potassium + Chlorine → Potassium Chloride?	What are the word and symbol equations for the reacid?	action of Sodium metal with Hydrochloric						
Why are symbol equations important?								
	C. What is the reactivity series?							
B. What products are made when a metal reacts with water?	Can you come up with a way to remember the order of the metals in the reactivity series?	potassium most reactive K sodium Na calcium Ca						
What are the word and symbol equations for the reaction of Sodium metal with water?	Potassium Sodium Lithium Calcium Magnesium Zinc Iron Tin Lead Keact wth acids React wth acids	magnesium Mg aluminium Al carbon C zinc Zn iron Fe tin Sn lead Pb hydrogen H copper Cu						
Which metals have a strong reaction with water?	Copper Mercury Silver Gold Very unreactive	silver gold Ag Au platinum least reactive Pt						





D,	What is a displacement reaction?	D,	What is an ore?			
A more	eactive metal will displace a less reactive metal from its compounds	Most metals are found in compounds in the Earth's crust. We call these compounds ores. You usually dig them up and extract the metal.				
	II happen when Magnesium metal is added to copper sulphate ution?		is a Native metal?			
Magnes	um will displace copper to form Magnesium Sulphate and Copper		al which does not need to be extracted from its compound.			
What is	the word and symbol equation for this reaction?	D, Metals	How are some metals extracted? are either found in the ground as a native metal, extracted by carbon, or			
	Sulphate + Magnesium \rightarrow Magnesium Sulphate + Copper · Mg \rightarrow MgSO ₄ + Cu	extrac	ted by electrolysis			
Why do	displacement reactions happen?		Potassium Sodium Aluminium			
A more	eactive metal is more stable as an ion		Carbon Zinc Extracted from their ores by			
D,	What is Extraction by Carbon?	Iron reduction by carbon Copper Silver Silver No extraction necessary – found Gold pure in the ground.				
	can displace elements that are below it from their compounds. This means be used to extract some metals from their ores.					
Which r	netals is extraction by carbon used to extract?	D,	What is electrolysis?			
	can be used to extract metals from zinc downwards n, tin, lead, copper)	The breaking down of a substance using electricity				
What is	an example word and symbol equation?	Which metals are extracted by electrolysis				
• Exan	nple: Lead Oxide + Carbon → Lead + Carbon Dioxide PbO₂ + C → Pb + CO₂	Metals more reactive than carbon – potassium, sodium, aluminium What are the downsides of this method?				
This reac	tion is an example of a reduction reaction as the lead has lost oxygen.	It is very expensive, compounds have to be molten or in solution for it to work				
What is	a reduction reaction?		Cathode (-ve) Anode (+ve)			
When an	atom loses an oxygen atom		Negative non-metal			
What ar	e the downsides of using this method?	+• ion				
High ten	nperatures needed. Very expensive. Production of CO ₂ .	Electrolyte Positive metal ion				

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D,	What is a displacement reaction?	D,	What is an ore?
What will solution	I happen when Magnesium metal is added to copper sulphate ?	What	is a Native metal?
		D,	How are some metals extracted?
What is t	the word and symbol equation for this reaction?		
Why do	displacement reactions happen?		
D, 1	What is Extraction by Carbon?		
Which m	etals is extraction by carbon used to extract?	D,	What is electrolysis?
14/1 1		Which	metals are extracted by electrolysis
what is a	an example word and symbol equation?		
		What	are the downsides of this method?
What is a	a reduction reaction?		Cathode (-ve) Anode (+ve)
			● Negative
What ar	e the downsides of using this method?		● ● non-metal
What die	the downaidea of dainy this method !		Positive
			Electrolyte metal ion



Year 8 Term 3 Science/Physics: Topic 9PF Forces in action



Wha	t we are lea	rning this terr	n:	A	Ford	es: Newtons Laws					
 A. Forces B. Moments C. Springs D. Energy transfers in mechanical systems E. Balanced forces in mechanical systems 			W	hat is a	a Resultant Force?	The overall force of 2 or more forces acting in different directions					
			W	What is Newton's First Law			 A stationary object stays stationary unless a resultant force acts on it. A moving object keeps moving at a constant speed unless a resultant force act on it. 				
5 Ke	y Words fo	r this term] [w		Newton's Second			force acting on an object cause		
1.Internal4. Deformation2.Work5. Moment3.Equilibrium					This			• This depends on the size of the resultant force and the mass of the object. This formula shows the link: $F_R = m \times a$			
							m is	F_R is the <u>resultant force</u> measured in newtons, <i>m</i> is the <u>mass</u> of the object measured in kilograms, <i>a</i> is the <u>acceleration</u> of the object measured in metres per second per second			
C. What do these terms mean?							(m/s			metres per second per second	
Defo	rmation	Changing of	shape by a force	W	/hat is I	Newton's Third Law	• <u>F</u> orces are always caused by an interaction between two objects.				
Compression Changing the shape by squashing				•			Each force has an equal and opposite reaction				
Tension Changing the shape by stretching			AII	All What Unit is <u>usually</u> used?			C .	Hookes Law is a linear relations	ship		
D.	What is Int	ternal energy?			rce	N (newton)	_			What does Hookes law state?	
of the	e particles.		particles + potential energy	Ene	Energy J (joule)					The extension/compression of an elastic object is directly	
Kineti	ic energy	All matter is ma moving	de of particles that are	Dis	Distance m (metre)			Force	(F) P	proportional to the force applied.	
Poter	ntial energy	energy Energy due to the relative position of particles, and the attraction between particles.		Mo	Moments Nm (newton metres)				Stops obeying	What is the elastic limit?	
D.	Work Done			J [Hooke's law here		
			× distance moved in a	the di	rectio	n of the force			law nere	When the material stretches to the point that it does not return to its original length.	
Applying a force to get an object to move is one way to transfer energy between Work is done (energy is transferred) when elastic objects are?				What is the amount of work done?				Extension, e	What is a directly proportional relationship?		
stores. Transferring energy is also known as ' doing work '. • Extended • Compressed		e	The amount of elastic potenti energy stored in the elastic object		al			The relationship between variables produces a straight line through the origin. If one doubles the other doubles			

⊥ 20 🗰 ↓ ∞≈ £1 ★ 28 2	Year 8 Term 3 Science/Physics: Topic 9PF Forces in action							
What we are learn	ning this terr	n:	Α	Forces: Newtons Laws				
 A. Forces B. Moments C. Springs D. Energy transfers in mechanical systems E. Balanced forces in mechanical systems 			hat is a Resultant Force? hat is Newton's First Law					
5 Key Words for this term 1. 4. 2. 5. 3.		W	hat is Newton's Second Law					
C. What do these phrases mean? Deformation Compression		W	hat is Newton's Third Law					
Tension			All What is the Unit <u>usually</u>		C.	Hookes Law is a linear relationshi	p	
D. What is Internal energy =			For				What does Hoo	kes law state?
All matter is made of particles that are moving Energy due to the relative position of particles, and the attraction between particles.			ance nents	For	ce (F) P Stops obeying	What is the elas	stic limit?	
D. What is the equation for Work Done? Applying a force to get an Work is done (energy is		What is the amount of work			Hooke's law here			
object to move is one way to transfer energy between stores.transferred) when elastic objects are ?Transferring energy is also known as 'doing work'.			lone?		Extension, e	What is a linear	relationship?	



Ε.

force

Ways to describe the

direction of moments of a



E.	Turning effects	E. Moments		S	
	he effort and load are forces that have a turning effect – they make ver rotate	Key	terms	Definitions	
What is the moment of the force?			r	A simple machine that multiplies applied forces (efforts) through rotation around a pivot.	
The size of the forces turning effect			ion	Turning, with a fixed centre of rotation. Rotation can be clockwise or anticlockwise – see diagram.	
How can you increase the moment of a force?			ng effect	The rotation of a lever caused by a force (effort OR load force).	
 Increase the force Increase the perpendicular distance from the pivot to the force 			nent	Another, more formal, name for 'turning effect of a force'. See equation.	
What are levers are what are the parts of them?		perpendicular		At right angles to.	
Levers involve turning, or rotation. Levers allow forces applied to be multiplied			librium	Describes a lever that is NOT rotating because the clockwise and anticlockwise moments are equal.	
ivot	Levers have a pivot, a fixed centre of rotation				
ffort	The force applied to a lever	Е.	When does	s equilibrium in lever systems happen?	
oad	The output force of the lever	• w	hen a lever i	s at equilibrium , it is NOT rotating.	
E. Equation to calculate the moment of a force			Equilibrium happens when: <u>the clockwise moments = the anticlockwise moments</u>		
moment = force × perpendicular distance from pivot				D ₁ D ₂	
	nts are measured in a compound measure using the units for force stance, usually newton metres, Nm.				
=_	Moments CLOCKWISE ANTI-				

CLOCKWISE

- The forces in each direction are not necessarily equal, but the moments of the forces in each direction are equal at equilibrium.
- Where there are multiple forces in one direction (clockwise or anticlockwise), ٠ the TOTAL moment in one direction is found by adding up the moments of each force in a particular direction.





E.	Turning effe	ects		E.	Moment	S
	e effort and load er rotate	d are forces tha	t have a turning effect – they make	Key	terms	Definitions
What is	What is the moment of the force?			lever		
				rotatio	on	
How ca	in you increase t	the moment of	a force?	turnin	g effect	
				mom	ent	
E.	What are leve	vers and what a	re the different parts?	perpe	endicular	
Levers i multiplie		or rotation. Lev	ers allow forces applied to be	equili	brium	
Pivot						
Effort				E .	When does	s equilibrium in lever systems happen?
Load						
E. V	Vhat is the eq	quation to cal	culate the moment of a force?]		
	Moments are measured in a compound measure using the units for force and distance, usually newtonmetres, Nm.					
E.	Moments]		$F_1 \qquad F_2 \qquad F_2$
	What ways describe the direction of moments of a force?		the • Wh the	forces in ea ere there a TOTAL mo	each direction are not necessarily equal, but the <i>moments</i> of ach direction are equal at equilibrium. re multiple forces in one direction (clockwise or anticlockwise), oment in one direction is found by <u>adding up</u> the moments of a particular direction.	



Geography Knowledge Organiser: Year 8 Term 3 Coasts



1.	Coastlines are dynamic changing landscapes,
	which are affected by the action of the waves.

- Waves can have differing features; these features 2. can influence the processes and landforms which may develop along our coastlines. (A)
- Destructive waves can erode the coastline. (B) 3.
- 4. Through erosion a number of distinctive coastal features can form. (D, E, F)
- 5. Further processes act on the coastline, leading to material being transported along the coastline. (C)
- 6. This material will eventually be deposited leading to the formation of landforms such as spits. (G)
- 7. Coastal erosion can impact the landscape and the lives of people living in areas of coastal erosion.
- Different strategies are used to reduce erosion. (H) 8.
- 9. Often these strategies can be controversial. (1)

Α.	A. Wave features (5)					
Swash			Movement of a wave up the beach. The direction is dependent upon the wind direction.			
Backv	vash		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.			
В.	Types	of	erosion (4)			
Hydra action	Addraulic 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 E			roded material in the sea, hit into each ther breaking down into smaller			

Solution

C.	Othe	er coa	astal processes (4)	F.	Ca		
Trans	Crack						
Depos	sition		When waves drop the sediment they are transporting, either due to a loss of energy or change in direction of coastline.	Cave	Cave		
Longs	shore di	rift	The movement of sediment along the	Arch			
			coastline in a zig-zag motion, due to the wind & swash occurring at an angle to the beach.	G.	Sp		
Weathering			Breaking down of rocks by physical and chemical processes.	Char coas			
D.	Hooked						
Geol	ogy		ifferent rock types e.g. resistant rock	ends			
			uch as granite, and less resistant ock such as clay.	Salt	mars		
Head	lland		esistant rock which is not easily roded so sticks out to sea.				
		-		н.	Co		
Bay			oft rock which is easily eroded so etreats to form a bay.	Hard			
E.	engir	ieerii					
Wave cut notch These form at the foot of a cliff due to erosion. This undercuts the cliff above leaving it unsupported.							
				Soft			
Wave cut platformWhen the unsupported cliff collapses, the process repeats and the cliff retreats leaving a sloping wave cut platform.					neerii		

_							
	F. Caves stacks and arches (3)						
	Crack		A weakness in the headland is eroded by hydraulic pressure, forming a cave.				
	Cave		This is eroded further, until the cave erodes all the way through the headland forming an arch.				
	Arch		The roof of the arch has no support, so collapses to form a stack.				
	G.	Spits	(3)				
	Chan coast	ige in tline	Leads to material transported by longshore drift being deposited into the sea, forming a spit.				
	Hook ends	ed	Form on a spit due to a change in the direction of the prevailing wind.				
	Salt r	narsh	An area of salty marshland found behind a spit, which has dried out as the sea can no longer reach this area.				
	Н.	Coast	al management (2)				
	Hard engir	neering	Human-made structures that help to deal with coastal erosion, such as:				
		Ū	1. Sea walls, which reflect the waves energy back out to sea				
			2. Groynes, which trap longshore drift.				
	Soft engir	neering	Adaptations to work with nature, such as: Managed retreat, allowing the coast to erode and moving people away.				

Waves compress pockets of air in	I. Case study example: Holderness coast, Mappleton						
cracks in a cliff, causing the crack to widen, breaking off rock.	Where? The fastes			st eroding coastline in Europe, in east Yorkshire.			
Eroded material is hurled or scrapes	Reasons	to protect	(2)	Management strategies (2)	Success (2)		
against the cliff, breaking off rock.	1. Rocks are made of soft			1. Rock groyne put in place to trap	1. Good – erosion in front of Mappleton		
Eroded material in the sea, hit into each other breaking down into smaller pieces.	er breaking down into smaller ces. 2. The B1242 runs through Mappleton and would be		ough	sediment being transported by longshore drift, creating a wider beach to absorb the power of the waves. 2. Bin-rap has been placed in front of	has reduced, so the road has been saved. 2. Bad - beaches further south have been starved of sediment so erosion has		
Cliffs e.g. chalk dissolve in seawater.					increased e.g. at Great Cowden.		

Geogr	Geography Knowledge Organiser: Year 8 Term 3 Coasts							
Background:	C. Other coastal processes (4)	F. Caves stacks and arches (3)						
 Coastlines are dynamic changing landscapes, which are affected by the action of the waves. Waves can have differing features; these features can influence the processes and landforms which may develop along our coastlines. (A) Destructive waves can erode the coastline. (B) Through erosion a number of distinctive coastal 	Transportation Deposition	Crack Cave Arch						
 features can form. (D, E, F) 5. Further processes act on the coastline, leading to material being transported along the coastline. (C) 6. This material will eventually be deposited leading to the formation of landforms such as spits. (G) 7. Coastal erosion can impact the landscape and the 	Longshore drift Weathering	G. Spits (3) Change in coastline						
 lives of people living in areas of coastal erosion. 8. Different strategies are used to reduce erosion. (<i>H</i>) 9. Often these strategies can be controversial. (<i>I</i>) A. Wave features (5) 	D. Headlands and bays (3) Geology	Hooked ends Salt marsh						
Swash	Headland							
Backwash Constructive wave	Bay E. Wave cut platforms (2)	H. Coastal management (2) Hard engineering						
Destructive wave Fetch B. Types of erosion (4)	Wave cut notch Wave cut platform	Soft engineering						
Hydraulic	I. Case study example:	Holderness coast, Mappleton						
action	Where?							
Abrasion	Reasons to protect (2) Management strat	egies (2) Success (2)						
Attrition Solution								



Year 8 History : English Civil War



What we are lease	arning this term:					Keyp	people		
We will explore the reign of Charles I, the role of Parliament in 17 th century England and Laud's religious reforms. We will then look at how these factors contributed to the outbreak of the English Civil War.					Charles I The second Stuart king of England, executed by Archbishop Laud Famously introduced new prayer boo Parliament in 1648 following the Civil War. along with other religious changes that bought back som Catholic practices. Catholic practices.				
А.	Can you defi	ne these key words?		John Pym Puritan member of Parliame opponent of Charles I before the Civil W				Parliamentary general, who became Lord permission of the second sec	
Divine Right		to rule directly from God and the people.	and not	General Monck A general who had wo			Charles II The kin	g of England following the Restoration.	
Personal Rule	The period from 1629 t	o 1640, when King Charled without Parliament	es I of	Cromwell who dismissed Parliament an after almost 20 years.	d called for elec	tions			
Parliament	A collection of people re	presenting all parts of Er	ngland,		i		<u> </u>	ad him to make mistakes?	
Restoration	The return of the mona	ove or reject laws rch to England with Charl	les II's	1. Personal Rule - Charles's belief in the Divine	2. Marri - An attemp	-	peace with	3. Appointment of Laud - Suspicions that Charles was a secret	
Tyranny		ion in May 1660 ssive government or rule		Right of Kings meant that he thought anyone who challenged		create an	alliance – this	catholic were strengthened after the appointment of Archbishop Laud.	
Commonwealth	The period when Englan	d ceased to be a monarc ruled by Parliament	hy, and	his power was challenging the power of God. This meant he	- She was C	atholic wh	nich the people of they saw this as	- Laud brought back many aspects of Catholic services e.g. stain glass	
Absolutist	A ruler who as su	preme authority or power	did not respond well to being controlled.	Charles beir	ng a Cath	olic sympathiser ected a secret	windows and stone altars. - Laud punished those who defied him		
Parliamentarians	R	nent in the English Civil W oundhead		- Many Puritans were in Parliament during Charles's rule	Catholic		in the running of	e.g. in 1637 he cut off the ears of 3 Puritans that were writing pamphlets	
Royalists		harch in the English Civil V Cavalier	War; a				oblems as she	that criticised his beliefs. - These changes and punishments	
Civil War	War between citizens of the same country			- As a result, Charles dissolved foreigner so			many thought that she ng in the affairs of the England as Charles was allowi		
	s occurred between 1649 gland having a monarch a			without them for 11 years until 1640.	Catholic changes to be made				
1. English Civil War	2. Commonwealth	3. Restoration	D. W	hy was Charles disgraced after the Naseby 1645?	Battle of	C. Ship		of Charles's 11 Year Tyranny	
<u>1642-1649</u> Battle of Naseby Charles I lost and vas found guilty f treason (private etters) and	- England was made a commonwealth (1649) as there was no longer a monarch - it was now being ruled in the best interests of the people - Banned theatre.	- Charles II was accepted back as king but only on the condition that he not punish those involved in the ECW, he ruled	m: we Ro Pa 2. <u>Lo</u>	 <u>The New Model Army (NMA)</u> – This was the first major battle fought by the NMA. Royalist troops were outnumbered. By the end of the battle the Royalists had 6000 casualties and the Parliamentarians only had 400. 			 when England Charles applied new money weight As a result, per began to turn 	ed this to every town in order to raise ithout the assistance of parliament. eople lost faith and trust in Charles and against him.	
eheaded (Jan 649) Cromwell then bok over and ecame Lord Protector – htroduced the ommonwealth nd military ictatorship to ingland.	 - barnied theatie, pubs, dancing, Christmas, sports and shops on Sundays. - After Cromwell's death (<u>1658</u>) his son Richard took over. - He was a weak leader and stepped down after a year (<u>1659</u>). - This left the door open for Charles II to return as king 	alongside parliament and was tolerant of religion. (Declaration of Breda) - He was welcomed into London in <u>May</u> <u>1660</u> with excited crowds glad to have their king back.	 Loss of Support – After the battle, evidence was found amongst items that Parliamentarians had seized that Charles was sending letters asking the Irish and French armies to invade England and reinstate him as king. Charles has promised to abolish the anti-Catholic laws in England. This was used as evidence to show that the King was committing treason against his people. Strategic Advantage – During the battle the NMA moved to a weaker starting position. To begin with, Sir Thomas Fairfax decided to start on the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a moved to a the Royalists would not attack such a strategic advantage of Earling the position. To begin with, Sir Thomas Fairfax decided to start on the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategic advantage of Earling the position. To begin with, Sir Thomas Fairfax decided to start on the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategiting agree to the more the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategiting agree to the more the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategiting agree to the more the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategiting agree to the more the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategiting agree to the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategiting agree to the steep slopes of Naseby ridge. However, Cromwell believed that the Royalists would not attack such a strategiting agree to the steep slopes of Naseby ridge. However, Cromwell believed to the the Rower to the steep slopes of Naseby ridge. However, Cromwell be			aud's prayer book. in 2 conflicts between England and 539 and 1640. Ing back both times, the king was as a result needed to pay Scotland ed to raise money and called parliament he in 11 years. known as the Long Parliament as they ession on and off for 20 years.			



Year 8 History : English Civil War



What we are le	arning this term:	Key people						
England and Lauc	e reign of Charles I, the ro d's religious reforms. We w d to the outbreak of the En	Charles I Archbishop Laud						
Α.	Can you define these key words?			John Pym	John Pym Oliver Cr			
Divine Right				General Monck			Charles II	
Personal Rule								
Parliament				B. How did Charles	l's belief in tl	he Divine	Right of Kings lea	ad him to make mistakes?
Restoration				1. Personal Rule	2. Marri	iage to He	enrietta Maria	3. Appointment of Laud
Tyranny	-							
Commonwealth								
Absolutist								
Parliamentarians								
Royalists								
Civil War								
	s occurred between 164s gland having a monarch							
1. English Civil War	2. Commonwealth	3. Restoration		/hy was Charles disgraced after the Naseby 1645?	e Battle of	C.	Consequences of	of Charles's 11 Year Tyranny
				<u>he New Model Army (NMA)</u> – oss of Support –		Ship Mone y		
			3. <u>S</u>	trategic Advantage –		Bisho ps' War		
						Long Parlia ment		

Year 8 Religious Education: The Philosophy of Religion

A. (Can you define these key words?	,	В.	Design Argument		C.	Cosmological Argument	
Key word	Key definition		This is the second	he argument for the exist	ence of God based on evidence	• This is	the argument for the existence of God which argues that	
Omnipotent	The belief that God is all-powe	erful	 This is the argument for the existence of God based on evidence of design in the world. Examples of design include purpose and regularity in the world. 			God is th	e cause of the universe. I the world must have a cause – if a door opens then	
Omniscient	The belief that God is all-know	/ing	For exar	nple, the laws of physics	mean the planets move around	somethi	ng must have opened it – this argument suggests that ust have been a first cause to begin life in the universe and	
Omnibenevol	ent The belief that God is all-lovin	g		in a regular and ordered structures to enable it to	way. The human eye has all the o fulfil a purpose- vision	that first	cause is God.	
Theism	The belief in God					have cau	ng cannot come from nothing, therefore something must used the world into existence. Without a first cause there	
Atheism	Disbelief or lack of belief in Go	od				could be	no second cause etc.	
Agnosticism	The belief that nothing can about the existence or natu		1					
Empirical	Evidence for something	based on	D.	The Problem of Ev	il	E.	Religious Experience	
evidence	observation or experience	based on	 This is the argument that the existence of evil undermines belief in an omnipotent and omnibenevolent God. If God is meant to be omnibenevolent, omnipotent and omniscient, then the existence of evil cancels out one of these attributes of God. 			• This is an experience which has a religious meaning for		
Analogy	A comparison between thin similar features, often used o principle or idea.					 the person who experienced it. Religious experiences are where you experience God. It can include visions / dreams where you are visited/ hearing God/ seeing a miracle/ prayers being answered or just feeling the presence of God/ Near death experiences 		
Theodicy	An argument which defends the problem of evil.	God against	 The problem of evil is frequently kn The inconsistent triad is only a chall theism/ monotheistic Abrahamic fa 		allenge to the god of classical • Bernadett		te at Lourdes had religious experiences where the Virgin	
Fallacy	A mistaken belief, especially unsound arguments.	one based on	of God	they offer.				
F. Criticisms Design Argume	ent	Cosmological	Argument		Theodicies		Religious Experience	
can there I corruption damage to The 'Desig For examp the clouds, this is just clouds that quickly, wi universe h move out of	posed to be perfect therefore how be flawed design such as s in DNA which cause cancers or bodies n' of the world may be coincidence. le, sometimes we see pictures in , like a rabbit or a face. We know a random coincidence. Just like t move into and out of shape thout a designer, the atoms in the ave moved into this shape and will of it again before long. We think we , but it is just coincidence	does not r brick is sm Our under the world a cause in entire uni If the exist without a	mean it is true nall, so a wall is rstanding of th around us – b this world, do verse requires tence of God a	e universe is limited to ecause things require es not mean that the a first cause. as a 'necessary' being a fact, why can't the	 Many religions explain the o world – such as in Christianit Eve and the original sin. God gave humans free will, a will humans can choose evil. Some people argue that exp in the world allows humans develop. Do we need evil to understa If we lived in a world that wa wouldn't have an understan really meant. So if we lived i only good, would we unders really meant? 	ry with Adam a and through fre eriencing the b to grow and nd what good i as all red, we ding of what re n a world that y	 to have had religious experiences are telling the truth. Factors such as certain foods, drugs and alcohol make people have strange feelings. There have been times when there seems to be an increase in reported religious experiences. If God is able to give people religious experiences that they cannot deny, why doesn't He give them to everyone so there is no doubt that God exists? 	

A.	Can y	ou define these key words?	,	В.	Design Argument		C.	Cosmological Argument
Key word		Key definition						
Omnipoten	nt							
Omniscien	t							
Omnibene	volent							
Theism								
Atheism								
Agnosticis	m							
				D.	The Problem of Ev	il	E.	Religious Experience
Empirical evidence								
Analogy								
Theodicy								
Fallacy								
F. Criticisms Design Argu			Cosmological	Argument		Theodicies		Religious Experience
damage The 'De pictures We kno move in designe moved i again be	there b in D to bodie sign' of th sign' of th 	e flawed design such as NA which cause cancers or s ne world may be or example, sometimes we see ouds, like a rabbit or a face.	 small. Our undet the world athe entire If the exist being wit 	eg a brick i rstanding of th around us – be in this world c req tence of God a hout a cause ca	an it is true of the s small, so a wall is e universe is limited to ecause things require d, does not mean that uires a first cause.	 Many religions explain the	with al sin. , and n choose evil. eriencing s humans to gro rstand what orld that was all of wha ed in a world th	 claim to have had religious experiences are telling the truth. Factors such as certain and make people have strange feelings. There have been times when there seems to be an increase in reported experiences. If God is able to give people religious experiences that they cannot,

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Year 8 Term 3 SPANISH Knowledge organiser: Topic = Generación Digital

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What we are learning th	is term:	C. Las Pelícu	C. Las Películas – Films			Key Verbs				
A. Discussing the internet and social media B. Discussing TV programmes		el dispositivo la experiencia	device experience	Ver To watch/ to see	Acabar To just		Subir To upload	Descargar To download	Etiquetar To tag	
D. Discussing music tas E. Creating an online p	rofile	hacer un maratón la programación la variedad	to binge watch TV schedule variety	Veo I watch	Acabo I just fir		Subo I upload	Descargo I download	Etiqueto I tag	
F. Discussing jobs and G. Translation practice	careers	una película cómica de aventuras	a film comedy adventure	Ves You watch	Acabas You jus		Subes You upload	Descargas You download	Etiquetas You tag	
6 Key Words for this te	rm 4. etiquetar	de ciencia ficción de dibujos	science fiction animated/cartoon	Ve s/he watches	Acaba d s/he just	-	Sube s/he uploads	Descarga s/he downloads	Etiqueta s/he tags	
 acabar de acabar de en linea 	5. en directo 6. chatear	animados de miedo de misterio	horror mystery	Vemos We watch	Acabar We just		Subimos We upload	Descargamos We download	Etiquetamos We tag	
A. Generación Digita	I – Digital Generation	del oeste	western	Ven They see	Acaban They jus		Suben They upload	Descargan They download	Etiquetan They tag	
descargar música gastar batería hacer la compra por	to download music to waste battery to do shopping online	D. ¿Qué piensas? –) músical romántica	musical romantic	E. Qui	iero ser –	I want to	be		n@s – We are music vers	
internet jugar a videojuegos llamar por videollamada sacar fotos subir fotos ver videos la aplicación / la app las compras la conexión wifi la cuenta el navegador la radio digital el supermercado virtual la tableta	to play videogames to call by videocalling to take photos to upload photos to watch videos app shopping wifi connection account sat-nav digital radio virtual supermarket tablet	cautivador(a) complejo/a decepcionante entretenido/a espeluznante impactante mejor memorable nuevo/a peor predicible profundo/a sangriento/a triste me da miedo	captivating complex disappointing entertaining terrifying striking better memorable new worse predictable deep / insightful bloody sad it scares me	el / la actor/a el / la arquited el / la biblioted el / la biblioted el / la carnice el / la carnice el / la científic el / la cociner el / la dentista el / la dentista el / la electrici el / la enfermo el / la enfermo el / la fontane el / la fontane el / la granjero el / la jugador	cto/a cario/a ro/a co/a co/a o/a ista ero/a c(a) ero/a fo/a o/a	actor/act architect librarian blogger butcher scientist chef dentist electricia nurse writer plumber photogra farmer football	an apher	los instrumentos la música tocar la batería la flauta la gaita la guitarra la pandereta el piano la trompeta el violín el / la artista la banda el / la cantante el concierto	instruments music to play (instrument) the drums the flute the bagpipes the guitar the tambourine the piano the trumpet the violin the artist the band / group the singer concert	
B. ¿Qué ponen en la televisio el concurso los dibujos animados el documental la película el programa de deportes el programa de humor el programa musical la serie el telediario la telenovela a la carta el canal el capítulo	n? -What do they put on TV? game show cartoons documentary film sports programme comedy programme music programme series the news soap opera on demand channel episode/chapter	me hace pensar me hace reír me recuerda a lo/la recomiendo porque emocionante maravilloso/a grave largo/a corto/a el cortometraje grabar ver el Actor la Actriz la trama	it makes me think it makes me laugh it reminds me of I recommend it because exciting amazing serious long short a short film to record to watch / see actor actress the plot line	fútbol el / la mecáni el / la médico el / la pescad el / la píloto d avión el / la policía el / la profeso el / la recepci el / la secreta el / la jefe/jefa la libertad el sueldo agradable estimulante exigente gratificante	ero/a le vr(a) onista rio/a	mechani doctor fishmony airline pi police of teacher reception secretar boss freedom salary pleasant stimulati demand satisfyin	ger lot fficer nist y t ng ing	el / la melónamo/a la pasión los datos personales el estado la obsesión el perfil de internet la tendencia el tuit dar 'me gusta' estar de moda estar bien informado/a poner filtros poner efectos subir selfis	music lover passion personal details status obsession internet profile trend the tweet to 'like' something to be in fashion to be well informed to add filters to add effects to upload selfies	

G. Translat	ion Practice	H . Key Questions: Answer the following in your own words. Use these model answers							
I like to go online and upload selfies	Mgielyss	¿Qué tipo de película te gusta por qué?	las películas y pienso que son muy interesantes. Creo que las películas de ciencia ficciór						
I download music	Dm		son una escapada de la realidad. Me gusta ver también los documentales porque so importantes.						
I like to watch horror films because they are terrifying	Mgvlpdmpse	¿Qué tipo de música te gusta y por qué?							
I prefer to watch films at home because it's	Pvlpecpemb	¿Para qué usas tu móvil?	Uso mi móvil para sacar selfis en Instagram y grabo videos en TikTok con mis amigos. E muy divertido porque nos encanta reír. También descargo música en mi móvil.						
cheaper		¿Qué quieres hacer en el future	2? En el futuro me gustaría ser profesora de historia porque me interesa mucho el pasado.						
What film do you want to watch?	¿Q p q v	I.	Key Questions: Translate these model answers using the KO						
I play the trumpet	Tlt	¿Qué tipo de película te gust y por qué?- What type of film of							
I can't play the	Nptlt	you like and why?	watch action films because they are very entertaining.						
tambourine	Malt	¿Qué tipo de música te gusta	f when I listen to pop music. My favourite band is One Direction because they are very						
I like the tweets	Mgit Maaamaa ƙa F	y por qué? – What type of music do you like and why?							
I like to tag my friends in photos on Facebook	MgeamaefeF	¿Para qué usas tu movíl? – What do you use your mobile fo	I use my mobile to send messages to my family and I use whatsapp to speak to my friends. I love to take photos and upload them onto Instagram. I add filters to my photon and special effects.						
I like to use Instagram because it's fun	Mgulped	¿Qué quieres hacer en el	In the future I would like to be a dentist. I think that teeth are very important. My dad is a						
Do you have a Wifi connection?	¿Tucdw?	 Futuro? What do you want to do in the future? 	dentist and he really likes his work. I would not like to be a pólice officer because the wor						
I don't have Wifi	Ntw								
I use my phone to listen to music	Ummpem	Use the personal 'a' when	J. Key Grammar e.g Me gusta etiquetar A mis amigos en Instagram porque es divertido I like to tag my						
My favourite app is Spotify because I love	MafeSpmelm	using the verb etiquetar (to tag)	friends on Instagram because it's fun. ¿Me puedes etiquetar en esta foto? – Can you tag me in this photo?						
music		Using ACABAR DE to just	e.g. Acabo de ver esta película – I have just finished watching this film						
I want to be a dentist	Qsd	finish something or to have just finished something:	Acabamos de estudiar para hoy – We have just finished studying for today						
My brother is a plumber	Mhef	Making comparisons with más que and menos que /	e.g. Esta película es mejor que la otra – This film is better than the other one Esta película es peor que la otra – This film is worse than the other one						
My sister is a police officer	Mhep	mejor and peor	Esta película es más divertida que la otra – This fi;lm is more fun than the other one Esta película es manos interesante que la otra – this film is less interesting than the other						
I want to be a teacher	Qsp	SER AND ESTAR both mean TO BE	SER is for PERMANENT things. <i>E.g Soy español – I am Spanish</i> ESTAR is for TEMPORARY things: <i>e.g. Está enfadado contigo – He is angry with you</i>						

i

Year 8 Term 3 SPANISH Knowledge organiser QUIZZABLE Topic = Generación Digital

i	

What we are learning th	nis term:	C. Las Pelíc	Key Verbs					
B. Discussing TV prog		el dispositivo	experience	Ver To watch/ to see	Acabar de	To upload	Descargar To download	Etiquetar To tag
C. Watching films at th D. Discussing music ta E. Creating an online p		la programación	to binge watch variety	Veo	Acabo de I just finish	Subo I upload	Descargo	l tag
F. Discussing jobs and G. Translation practice	l careers	una película de aventuras	comedy	You watch	 You just fin	ish You upload	Descargas You	Etiquetas
6 Key Words for this te		de ciencia ficción de dibujos		Ve s/he watches	Acaba de s/he just finis	thes s/he uploads	s /he downloads	Etiqueta s/he tags
 las redes sociales acabar de en linea 	 4. etiquetar 5. en directo 6. chatear 	animados de miedo	mystery	Vemos	Acabamos		Descargamos	We tag
A. Generación Digita	I – Digital Generation	l	western	Ven	Acaban de They just fin			Etiquetan
<u></u>	to download music	D. ¿Qué piensas? -	- What do you think?	They see	They just in	ish They upload	They download	They tag
hacer la compra por	to waste battery		musical	E. Qui	ero ser – I wa	ant to be		n@s – We are music /ers
internet jugar a videojuegos Ilamar por videollamada sacar fotos subir fotos ver videos la conexión wifi la cuenta el navegador el supermercado virtual 	app shopping digital radio tablet	cautivador(a) complejo/a espeluznante impactante mejor memorable predicible sangriento/a triste	romantic disappointing entertaining new worse deep / insightful it scares me it makes me think it makes me laugh	el / la arquited el / la biblioted el / la biblioted el / la bloguer el / la cocinen el / la dentista el / la dentista el / la electrici el / la fontane el / la fontane el / la fotógraf el / la jugador fútbol el / la mecáni	cto/a cario/a o/a bu sc o/a a a a a ista ro/a model ro/a	tor/actress	los instrumentos la música la gaita la gaita la guitarra la pandereta el piano la banda el / la cantante el / la melónamo/a	to play (instrument) the drums the flute the flute the trumpet the trumpet the violin the artist concert passion
los dibujos animados la película el programa de deportes el programa de humor la serie la telenovela el canal	game show documentary music programme the news on demand	me recuerda a emocionante maravilloso/a grave el cortometraje ver la Actriz	I recommend it because	el / la píloto d avión el / la policía el / la recepci el / la secreta el /la jefe/jefa agradable estimulante	e fis e	acher	los datos personales el estado la tendencia el tuit estar bien informado poner filtros poner efectos	obsession internet profile to 'like' something to be in fashion
el capítulo		la trama		gratificante	_ de	manding		to upload selfies

Year 8 COMPUTER SCIENCE Term 3 – Combined

What we are learning this term:

A. Strong Passwords

ds B. Social Engineering

C. File Handling D. Definitions

Α.	Creating Stron	g Passwords	B Social Engineering		9		C.	File Handling			
A strong	password sho	puld:	The manipulation of people to hand over confidential information or access.								
	A				Making up a story to get monetary assistance or access.		Keyboard shortcuts				
	В					Re	enaming	a file			
	С				Redirecting a user from a genuine website to a	Co	ру				
					fraudulent one.	Paste					
	D					Cu	it				
	E		Phishi	ing		Ne	w folde	r			
A weak pa	ssword										
						D	Defini	tions			
	A				Observing personal information over the shoulder when entering a password or a pin.						
	_							The safe and responsib internet and other mean	le use of technology, the ns of communication.		
	В										
	с				A phishing attack targeting a specific organisation or group.	Cyt					
					3	atta	ack				
	D										
			Whali	ng		Cyt	per-				
						sec	urity				
	E										

What we are learning this term:

A. Strong Passwords

B. Social Engineering C. File Handling

D. Definitions

File Handling Creating Strong Passwords в В. Α. Social Engineering The manipulation of people to hand over confidential information or access. A strong password should: Blagging Making up a story to get monetary assistance or Keyboard shortcuts Α Use a mixture of 10-15 characters. access. Renaming a file F2 в Use symbols and numbers. С Use upper and lower case letters. Copy Ctrl+C Pharming Redirecting a user from a genuine website to a fraudulent one. Paste Ctrl+V D Avoid sequences. Cut Ctrl+X Е Not contain personal information Phishing Sending an email which appears to be from a legitimate source. New folder Ctrl+Shift+N A weak password D Definitions Α Is short (less than 10 characters long) . Shouldering Observing personal information over the shoulder when entering a password or a pin. Esafety The safe and responsible use of technology, the в Uses popular terms. internet and other means of communication. С Uses common phrases. A phishing attack targeting a specific organisation or Spear-phishing group. Cyber-Using computers or other technology to modify programs attack or data to cause harm or damage. D Uses sequences of letters or numbers. A phishing attack targeting a specific individual. Whaling Cyber-The technology and practices needed to protect devices Е Uses personal information security and data from cyberattacks. (individual's name, date of birth).





Key Designer

Key Features:

Crazy patterns;

Strange shapes

thrown together.

animal print,

geometric,

pinstripes.

Contrast!

Colours:

Bright, bold,

and secondary

colours. Black

Line Styles:

rectangles,

Very geometric;

triangles, squares,

circles and arcs.

patterns.

Contrasting primary

Ettore Sottsass

Ε. What we are learning this term: **Memphis Design Movement** C. CAD D. CAM E. Memphis Design Movement The Memphis Design movement was a collection of designers and A. Workshop Tools B. Materials artists that wanted to create something to break the rules of traditional design and still function in the sense of traditional design. \mathbb{X} Workshop Tools Α. The idea was for the products to be bright, colourful, playful. Steel Rule Wooden Vice Clamp Bench Hook Tenon Saw Pillar Drill Bandfacer 樹 В. C. CAD **Materials** Timbers come from trees Computer-aided design (CAD) is the process of using computer software to create 2D or 3D designs. Scots pine – which you used for your clock base Advantages of CAD **Disadvantages of CAD** - is a **softwood** Designs can be created, CAD takes a long time to saved and edited quickly, learn Softwoods come in saving time planks and boards Designs or parts of design Software can be very can be easily viewed from expensive different angles, copied or Manufactured Boards come from wood pulp repeated Plywood – which you CAD is verv accurate CAD files can become used as your Memphis corrupted or lost shapes – is a manufactured board ⊨ᢕ D. CAM Manufactured Boards By using **computer aided manufacture (CAM)**, designs can be come in sheets sent to CAM machines such as laser cutters and 3D printers Advantages of CAM **Disadvantages of CAM** Polymers come from crude oil Quick - Speed of production CAM takes a long time to Acrylic – which you can be increased learn used as your Memphis shapes – is a **polymer Consistency** – All parts High initial cost can be **very** manufactured are all the expensive Polymers come in same sheets, graduals and filament Production **stoppage** – If the CAM is very accurate machines break down, the production will stop



Year 8 PRODUCT DESIGN Rotation Knowledge Organiser



				-		\$~\}
What we are learning this	s term:			E.	Memphis Design Movement	
	B. Materials C. CAD	D. CAM E. Memphis D	esign Movement	The M artists	lemphis Design movement was a collection that wanted to create something and still function in the ser	
A. Workshop Tools			<u>×</u>	The id	lea was for the products to be	
						Key Designer Ettore Sottsass
B. Materials		C. CAD				Key Features:
Timbers come from	Scots pine – which you	Computer-aided design (CAD) is the process of using _ to create 2D or 3D designs .			
	used for your clock base – is a softwood	Advantages of CAD	Disadvantages of CAD			
	Softwoods come in					
	and					
Manufactured Boards cor	ne from			P		
	Plywood – which you used as your Memphis shapes – is a					Colours:
	manufactured board	D. CAM				
	Manufactured Boards come in	By using computer aided manufacture (CAM), designs can be sent tosuch as				
Polymers come from		Advantages of CAM	Disadvantages of CAM			
	Acrylic – which you used as your Memphis shapes – is a polymer					Line Styles:
	Polymers come in , and			-		

Year 8 Term 1 : Topic = Planning a Healthy Meal

What we are learning this term: в. С Health, safety and hygiene in the kitchen 1 to avoid ol Α. The Eatwell guide and nutrients 2 it can be l В. Design Ideas 3 to keep a C. Weighing Practical skills 4 to keep yo 5 it can mak D. Ε. F. Evaluation Work

5 to add colour to the food

•

6 Key Words for this term						
1 Hygiene	4 Balanced					
2 Health	5 Nutritional					
3 Food Poisoning	6 Target Market					

A.	What are the	What are the three macronutrients in the diet?						
Carbohydrates		Foods that are eaten to give the body energy						
Protein		Food that are eaten to build and repair muscles and cells						
Fats		Food that are eaten to protect your vital organs and insulate your body.						



	Can you give 5 reasons for why se	omeone	should eat healthily?				
in ee ee	id obesity be less expensive p a healthy heart p your body fit make a positive impact on your family						
	Prevent Cross	Α.	What is cross contamination and how can it be prevented?				
	Contamination Use cerrect colour coded chopping boards and knives at all times RAW MEAT RAW FISH COOKED MEATS	Cross contamination happens when you use the wrong chopping board or equipment to prepare food which can therefore result in food poisoning.					
	SALADS & FRUITS VEGETABLES	B. What is the image on the left showing and how is it used?					
DAIRY PRODUCTS ALLERGENS		In the photo you can see a food temperature probe. You use it to check that food it cooked. First you need to make sure that the probe is clean, then you insert it into the thickest part of the food and then check the temperature. If the food is cooked it can be served, if the food is not the correct temperature it needs to be cooked for longer.					
	C. Can you list 5 reasons for	why we	cook food and why it is important?				
	Rule • 1 to get rid of bacteria on the food • 2 to make the food taste better • 3 to make food chewable	bd	Why it is important • 1 to stop food poisoning • 2 to make the food more appealing • 3 it could be raw or a choking hazard				
	4 to ensure that food is not raw		4 to stop food poisoning				

5 to make it look more appetising or change its use .

E.	Keywords				
Hygiene		A method of keeping yourself and equipment clean			
Research		Information that you find out to help you with a project			
Nutritic	DUS	A meal that is healthy and contains vital nutrients.			
Target	Market	The age or type of person you re creating a product for.			
Carbohydrates		Foods that give you energy			
Protein		Food that grow and repair your muscles			
Fibre		Foods that keep your digestive system healthy and avoid constipation.			
Calcium		Foods that make your teeth and bones strong			
Desigr	ı Idea	A sketch or plan of how you are hoping a project to turn out.			
Organisation		Having everything ready for a lesson and following instructions			
Time keeping		Using the time to remain organised.			
Sensory analysis		Use your senses to taste and describe a product			
Mood	Board	A collage of photos and key words based on a project			

Year 8 Term 1 : Topic = Planning a Healthy Meal





Year 8: tonality and Structure

Black Keys and Sharps and Flats

There are five different black notes or keys on a piano

right up the keyboard in different pitches. Each one can

or keyboard. They occur in groups of two and three

Term 3

G



- 1 Develop music reading skills
- 2 Treble / Bass clef notation
- 3 Sharp, Flats and Natural notes
- Structure and Tonality



В	Keywords				
Binary	A piece of music divided into 2 sections				
Ternary	A piece of music divided into 3 sections				
Chromatic	The full 12 notes of a scale, including sharps and flats				
Pentatonic	A set of 5 musical notes that are being played as a scale				
Atonal	Music that is neither major or minor, sounding clashing				
Structure	The way the Music is put together – overall plan of the music				





A piano or keyboard is laid out with WHITE KEYS and BLACK KEYS (as above). C is to the left of the two BLACK KEYS and the notes continue to G when they go back to A again. Notes with the same letter name/pitch are said to be an OCTAVE apart. MIDDLE C is normally in the centre of a piano keyboard.

Treble Clef & Treble Clef Notation

D

A STAVE or STAFF is the name given to the five lines where musical notes are written. The position of notates on the stave or staff shows their PITCH (how high or low a note is). The TREBLE CLEF is a symbol used to show high-pitched notes on the stave and is usually used for the right hand on a piano or keyboard to play the **MELODY** and used by high pitched instruments such as the flute and violin. The stave or staff is made up of 5 LINES and 4 SPACES.

Every Green Bus Drives Fast. Notes in the SPACES spell "FACE"





Notes from MIDDLE C going up in pitch (all of the white notes) are called a SCALE.



be a SHARP or a FLAT. The # symbol means a SHARP which raises the pitch by a semitone (e.g. C# is higher in pitch(to the right) than C). The *b* symbol means a FLAT which lowers the pitch by a semitone (e.g. Bb is lower in pitch(to the left) than B). Each black key has two names - C# is the same as Db - there's just two different ways of looing at it! Remember, black notes or keys that are to the **RIGHT** of a white note С are called SHARPS and D black notes to the LEFT of a white note are called FLATS. Note Values and Dotted Note Values

Е

F

Note	Name	Beats	Rest	Note	Name	Beats	Rest
0	Semibreve, Whole Note	4 beats		0.	Dotted Semibreve, Dotted Whole Note	6 beats	
d	Minim, Half Note	2 beats	-	d.	Dotted Minim, Dotted Half Note	3 beats	-
	Crotchet, Quarter Note	1 beat	3	d.	Dotted Crotchet, Dotted Quarter Note	1% beats	<i>ξ</i> .
5	Quaver, Eighth Note	1/2 beat	7	Ĵ.	Dotted Quaver, Dotted Eighth Note	3/4 beat	7.

G	Describing music	Describing music – MAD T SHIRT								
м	А	D	т	S	н	I.	R	т		
Melody	Articulation	Dynamics	Texture	Structure	Harmony/Tonality	Instruments	Rhythm	Тетро		
The tune	How notes are played	Loud/quiet and any other volume changes	Layers of sound / how they fit together	The sections and organising	Chords used / the mood	Types of instruments heard	Pattern of notes	The speed		

Year 8: tonality and Structure

Term 3 🚰

Black Keys and Sharps and Flats



- 1 Develop music reading skills
- 2 Treble / Bass clef notation
- 3 Sharp, Flats and Natural notes
- 4 Structure and Tonality



В	Keywords	
Binary		
Ternary		
Chromatic		
Pentatonic		
Atonal		
Structure		







Treble Clef & Treble Clef Notation

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A STAVE or STAFF is the name given to the five lines where musical notes are written. The position of notates on the stave or staff shows their **PITCH** (how high or low a note is). The **TREBLE CLEF** is a symbol used to show high-pitched notes on the stave and is usually used for the right hand on a piano or keyboard to play the **MELODY** and used by high pitched instruments such as the flute and violin. The stave or staff is made up of 5 **LINES** and 4 **SPACES**.

Every Green Bus Drives Fast. Notes in the SPACES spell "FACE"



Notes from **MIDDLE C** going up in pitch (all of the white notes) are called a **SCALE**.



F Note Values and Dotted Note Values Note Name Beats Note Name Rest Beats Rest 0 O. Dotted -0 0. 100 3 *ξ*. 4 4. 1

G	Describing music	Describing music – MAD T SHIRT									
М	А	D	т	S	Н	I	R	т			
M	Α	D	Т	S	Н/Т	I	R	т			



Year 8 Term 3: Craig & Bentley



Christopher Craig

Was 16 years old so did not suffer the death penalty but was sent to prison even though he was the one who was carrying a gun at the time of the crime. Christopher was the one who suggested to Derek that they go and break into the warehouse that caused the death of one police officer and injury to another. <u>He served 10 years in Prison and was</u> <u>released in 1963</u>

Derek Bentley

Was 18 years old and sentenced to death by hanging for a crime he did not commit. It was known that Christopher had the mental age of a 12-yearold. He carried no weapons on him at the time of the crime and was simply mis-lead by his friend Derek Bentley. He was heard shouting the phrase "Let Him Have it" but it remains unclear as to what he meant when he said this. <u>He was hung on the 28th</u> January 1953.



Key Words and Definitions

<u>Corporal</u> Punishment	The infliction of physical pain upon a person's body as punishment for a crime or infraction
<u>Capital</u> Punishment	The state-sanctioned practice of killing a person as a punishment for a crime usually following an authorised, rule-governed process
Still Image	A picture which communicates meaning. It can provide insight into character relationships with a clear focus upon use of space, levels, body language and facial expression.
Reconstruction	Acting out a real event after it has happened and keeping it as close/true to the real event as possible
<u>Facial</u> Expressions	Showing us how a character is feeling through their face.
Hot Seating	Character is questioned about their background, thoughts or feelings.

HERE LIES DEREK WILLIAM BENTLEY

IN LOVING MEMORY of WILLIAM GEORGE BENTLEY A Devoted Husband and Father Born 3rd May 1905 Fell Address 1270 July 10070

LILIAN ROSE BENTLEY A Loving Wife and Mother Born 8th November 1903 Fell Asleep 10th October 1976

TH WILL OF

Asleep 4th March 1993

What do you think Christopher meant by the phrase "Let him have it?"

Do you think the outcome for Craig and Bentley was fair?



