

YEAR 10

WINOWILED GIE ORGANIISIERS

Year 10 An Inspector Calls Knowledge Organiser 11. Key quotations 13. Plot Summary

Ke	Key Vocabulary:		11. Key quotations		13. Plot Summary	
	,		Mr Birling	Sheila		
1	Raisonneur	A character who acts as the voice of the author.	'lower costs, higher prices'	'So I am really responsible'	Inspector Goole	Shella feels
2	Socialism	A political system where the government gives power back to the workers.	Eric	Gerald	Eva Smith's death Mr B	responsible for the death sirring had led Eva Smith
3	Capitalism	A political system which places importance on individual wealth.	'I was in that state where a chap easily turns nasty'	'I didn't install her there to make love to her'	Mrs Birling refused to help Eva Gerald confehis affair with affair with conference of Eva's unborn baby	
4	Façade	A deceptive outward appearance.	Mrs Birling	Inspector		
5	Misogynistic	Strongly prejudiced against women.	'Girls of that class'	'We are all members of one body'	Inspector Goole is an imposter	The police call the Birlings to investigate
6	Patriarchal	A society dominated and controlled my men	12. Key Characters:			
7	Omniscient	All knowing.	a) Mr Birling Mr Birling is the head of th	he Birling household. He has	d) Gerald made Gerald is described as 'an	attractive chap about thirty,
8	Embodiment	The representation of something in a physical form.	himself very wealthy by be He is an active member of	eing a 'hard-headed' busines f the community in Brumley a the running for a Knighthoo	rather too manly to be a country and well-bred young man-abo	dandy but very much the easy out-town'. Mr Birling is very ting engaged to Sheila because
9	Privilege	A special right or immunity awarded to a			hopes they can join forces	business owners, Mr Birling s in business.
		specific group.	b) Sheila		e) Mrs Birling	
10.	10. Context		twenties. At the start of th	d Sybil's daughter and is in he ne play she is celebrating her	opening of the play she is	
Α		e play, along with the mote his socialist views.	childish young lady. The In	oft and she is a giddy, naïve an Inspector arrives and she is ve Iva Smith's death, she is also w	ery member of local women's	

shocked by the news of Eva Smith's death, she is also very regretful of her own involvement in the suicide.

Set in 1912 society was heavily divided

Women had very few rights in 1912.

When the play was written in 1945

women had gained more respect and

into a rigid class system.

equality.

c) Eric
Eric is the Birlings' son and is in his early twenties, he is
described as being 'not quite at ease, half shy, half assertive'.
In other words, he lacks confidence. At points he tries to stand up to his father but is talked down. It becomes clear that he is drunk at the dinner table and later it is revealed that he has been drinking too much for quite some time.

f) Inspector

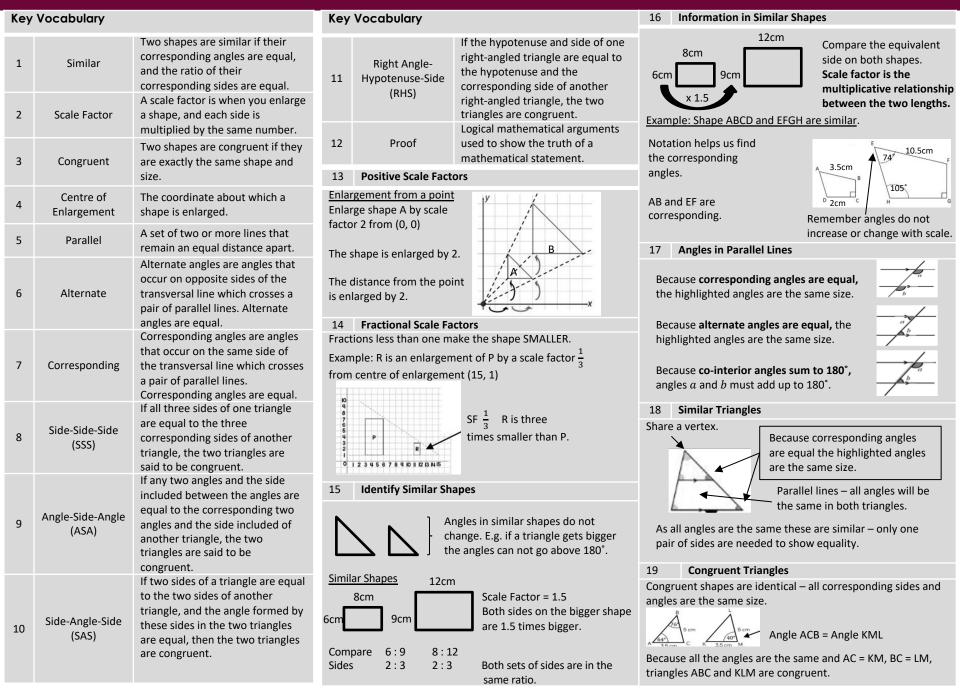
The Inspector arrives whilst the Birling family are celebrating the engagement of Sheila and Gerald. The stage directions state that he 'need not be a big man' but that he must create an 'impression of massiveness, solidity and purposefulness'. The Inspector investigates each family member one at a time and in doing so,

reveals the consequences of their behaviour.

Year 10 War Poetry Knowledge Organiser Autumn Term

Key Vocabulary:		Poem Synopsis		Key quotations:		
2	Caesura Enjambment	Punctuation used in the middle of a line of poetry. When a phrase or sentence	13. The Man He Killed	A soldier recalls shooting another soldier whilst at war. However, the soldier wishes he had met his foe in a bar instead of on the battlefield.	'Had he and I but met' 'I shot him dead – because Because he was my foe' (How my int and agricus was is'	
3	Stanza	runs over the end of one line and into the next. A group of lines in a poem	14. Poppies	The speaker is a mother who recalls saying goodbye to her child before they go to war. She then remembers past memories with him at	'How quaint and curious war is' 'Released a song-bird from it's cage' 'hoping to hear your playground voice	
7	Dhuma a ab ana	(similar to a paragraph). A pattern of rhymed lines		home.	catching on the wind;	
	Rhyme scheme	throughout the poem.	15. War Photographer	The poem explores the violence of war and the loss of innocence it creates. In addition, the poem also suggests the dilemma a photographer faces.	'The reassurance of the frame is flexible' 'she dropped her burden' 'The picture showed the little mother'	
8	Rhyming couplet	A pair of rhymed lines.	16. Exposure	Written from the perspective of a soldier in WW1, the soldiers are exposed to the harsh weather in	'Our brains ache in the merciless iced	
9	Sibilance Repetition of the s sound; where the 's' sound is stressed.			the trenches during war. The poem describes the experiences and the reality for soldiers who fought n the front line.	east winds that knive us' 'But nothing happens' 'Slowly our ghosts drag home'	
10	Volta	A change in the speaker's attitude in the poem.	17. The Charge of the Light Brigade	The poem, commemorates the heroism of a brigade of British soldiers in the Crimean War. The	'Into the valley of <u>D</u>eath rode the six hundred'	
11	End-stopped	When the phrase or sentence ends at the end of a line of poetry.		troops of the brigade followed orders to charge a heavily defended position, even though they knew they had little chance of survival.	'Cannons to the right of them, Cannons to the left of them' 'Honour the charge they made'	
12. P	oetic Form		18. The Destruction of Sennacherib	The poem retells the biblical story of the siege of Jerusalem by the Assyrian king Sennacherib,	'like wolf on the fold' 'gleaming in purple and gold'	
-	amatic ologue	A poem that is written like a speech, spoken to an audience.		during which, according to the Bible, God destroyed the entire Assyrian army in the middle of the night.	'sleepers wax'd deadly and chill' 'Angel of <u>D</u> eath'	
b. Fre	ee verse	A poem that doesn't rhyme.	19.Belfast Confetti	The poem describes the confusion, shock, and horror immediately following the explosion of a bomb in the city of Belfast.	'Raining exclamation marks' 'This hyphenated line, a burst of rapid	
c. Na	rrative	A poem that tells a story.			fire' 'I know this labyrinth so well'	
d. Interview		A poem that is written in the form of an interview.	20. What Were They Like?	The poem is about the effects of war. The poem specifically protests about the damage done by the American military to the people of Vietnam	'Their light hearts turned to stone' 'laughter bitter in their burnt mouths'	
e. Ballad		A poem that is traditionally sang, to teach a clear, moral lesson.		during the war between the two nations in the 1960's and 1970's.	'Who can say? It is silent now.'	

Year 10 Mathematics – Knowledge Organiser – Congruence, Similarity and Enlargement – Autumn Term



Year 10 Mathematics – Knowledge Organiser – Trigonometry – Autumn Term

If a triangle is right-angled, the sum of the squares of the

shorter sides will be equal to the square of the hypotenuse.

Either of the short sides can

Sine Ratio: Side Lengths

 $Sin \theta =$

OPPOSITE

opposite side

hypotenuse side

Substitute the values into

Equations might need

the sine formula.

Pythagoras' Theorem

12

In a right-angled triangle the

square of the hypotenuse (long

side) is equal to the sum of the

square of the other two sides.

Key Vocabulary

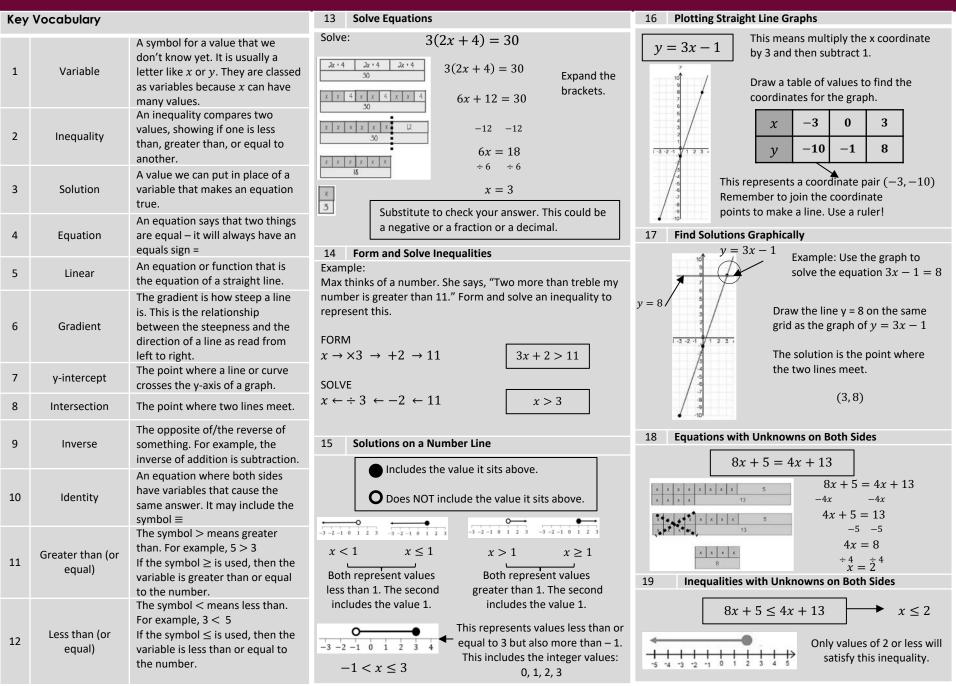
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Pythagoras'

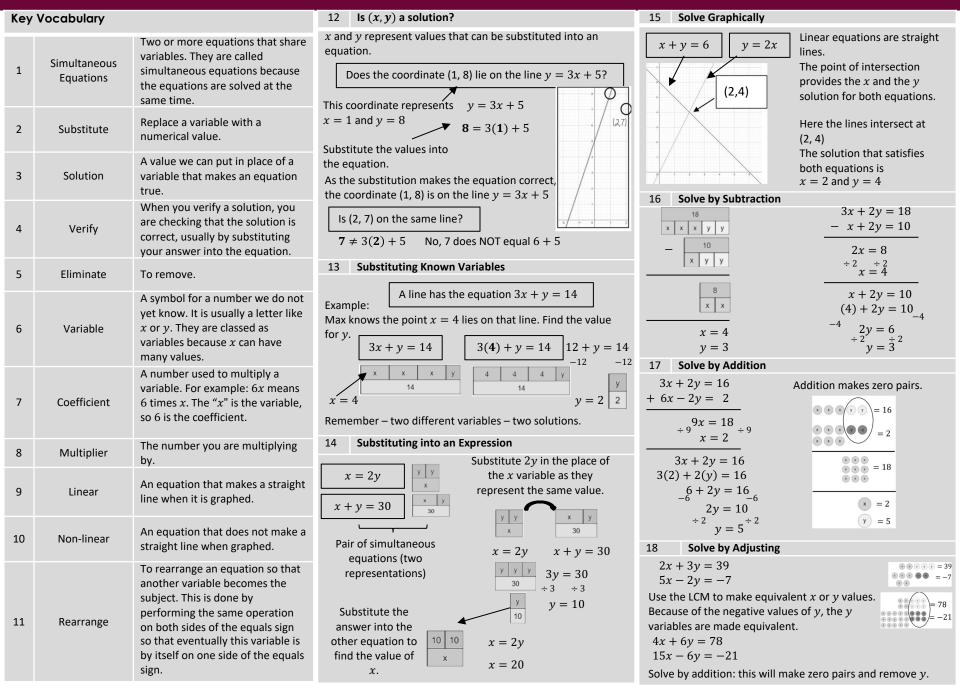
Theorem

2	Trigonometry	The relationships between side lengths and angles of triangles, especially right-angled triangles.	Either of the short sides can be labelled a or b. $a^2 + b^2 = hypotenuse^2$ Either of the short sides can be labelled a or b. $3in (44) = \frac{x}{12}$ Equations might need rearranging to solve. $12 \times Sin (44) = x$
3	Hypotenuse	The side opposite the right angle in a right-angled triangle. It is also the longest side of the right-angled triangle.	b 13 Hypotenuse, Adjacent and Opposite ONLY right-angled triangles are labelled in this way. 14 HYPOTENUSE x = 8.3 cm Cosine Ratio: Side Lengths
4	Adjacent	The side in a right-angled triangle that is between the angle θ and the right angle.	OPPOSITE ADJACENT The OPPOSITE is The ADJACENT The ADJACENT The ADJACENT The ADJACENT The ADJACENT
5	Opposite	The side opposite the angle of interest in a right-angled triangle.	ADJACENT is an acute angle. Useful to label ADJACENT is next to the $\frac{x \ cm}{46^{\circ}}$ $\cos (46) = \frac{x}{12}$ Equations might need rearranging to solve.
6	Sine	In a right-angled triangle: the length of the side opposite the angle divided by the length of the hypotenuse.	second. Position will depend The HYPOTENUSE is question. Will depend upon the angle in use for the side. It is always the longest side. It is always the longest labelled last.
7	Cosine	$Sin(\Theta)$ = opposite \div hypotenuse In a right-angled triangle: the cosine is the length of the adjacent divided by the length of the hypotenuse.	question. opposite the right angle. It is useful to label this side first. Inverse trigonometric functions. Label your triangle and choose your trigonometric ratio. Substitute the values into the appropriate formula. ADJACENT $\theta = Tan^{-1} \left(\frac{opposite side}{adjacent side}\right)$
8	Tangent	Cos (Θ) = adjacent \div hypotenuse In a right-angled triangle: the length of the side opposite the angle divided by the length of the adjacent side. $Tan(\Theta)$ = opposite \div adjacent	$Tan \theta = \frac{opposite \ side}{adjacent \ side}$ $Tan \theta = \frac{opposite \ side}{adjacent \ side}$ $Tan \theta = \frac{opposite \ side}{adjacent \ side}$
9	Inverse	The opposite of/the reverse of something. For example, the inverse of $\sin(\theta)$ is $\sin^{-1}(\theta)$.	Substitute the values into the tangent formula. $\theta = Tan^{-1}\left(\frac{1}{3}\right)$ $\theta = Cos^{-1}\left(\frac{adjacent\ side}{hypotenuse\ side}\right)$ $10\ cm$ $Tan\ (34) = \frac{10}{r}$ 18 Key Angles/Exact Values
10	Surd	A number that cannot be simplified to remove a square root. For example: $\sqrt{2}$ can't be simplified further so it is a surd. But $\sqrt{4}$ can be simplified to 2 and so is not a surd.	OPPOSITE Equations might need rearranging to solve. $x \times Tan(34) = 10$ Equations might need $a \times x \times Tan(34) = 10$
11	Exact Value	If a question asks to give your answer as an exact value, then you should give your answer as a surd or as a fraction.	$x = \frac{10}{Tan (34)}$ $x = 14.8 cm$

Year 10 Mathematics – Knowledge Organiser – Representing Solutions of Equations and Inequalities – Autumn Term



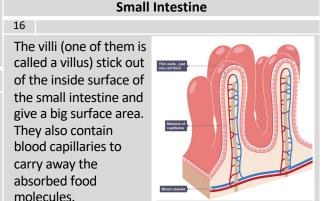
Year 10 Mathematics – Knowledge Organiser – Simultaneous Equations – Autumn Term



Year 10 Science Autumn Knowledge Organiser Cells and Systems 1

Key Vocabulary: A group of specialised cells with Tissue Organ (bladder a similar structure and function. 13 The Digestive System A collection of different tissues **Organ** working together to carry out specific functions. 3 A group of organs that work **Organ Systems** together to carry out specific functions and form organisms. **Digestive** Organ system where food is **System** digested and absorbed. 5 Biological catalysts, usually **Enzymes** proteins. Catalyst A substance that speeds up the rate of another reaction but is not used up or changed by itself. The breakdown of the molecular Denatured structure of a protein so it no longer functions. 8 Neutralises the stomach acid to Bile give a high pH for the enzymes from the pancreas and small intestine to work well. It is not an enzyme.

		Oesoph Gall bla	Liver dder creas		Salivary glands Stomach Large intestine Rectum Anus
	14				
1	5			Food Tests	
	Food	l Test	Colour of reagent	Positive test result	Negative test result



Enzymes

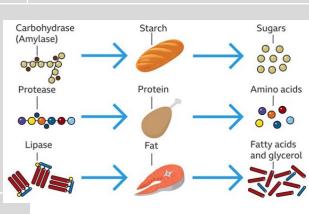
Enzymes are chemicals which help to speed up the

breakdown of large food molecules. Enzymes are not living things. They are just special proteins that can break large molecules into small molecules. Different types of enzymes can break down different nutrients: amylase and other carbohydrase enzymes break down carbohydrates into sugar e.g. starch into glucose. protease enzymes break down proteins into amino acids.

lipase enzymes break down lipids (fats and oils) into fatty acids and glycerol.

18

17



digestion of starch into sugars

Enzyme that speeds up the

Enzymes that speed up the

breakdown of proteins into

Enzymes that speed up the

breakdown of lipids into fatty

The waste product formed by

the breakdown of excess amino

amino acids.

acids and glycerol.

acids in the liver.

Amylase

Protease

Lipase

Urea

10

11

12

Biuret

for protein

blue

lodine for orange-brown blue-black orange-brown starch (no change) light blue light blue Benedict's green to brick-red (no change) for sugar Ethanol colourless cloudy emulsion colourless for lipid (no change)

lilac-purple

blue (no change)

Year 10 Science Autumn Knowledge Organiser Cells and Systems 2 Blood

Components of Blood

The Heart

11

Key Vocabulary:

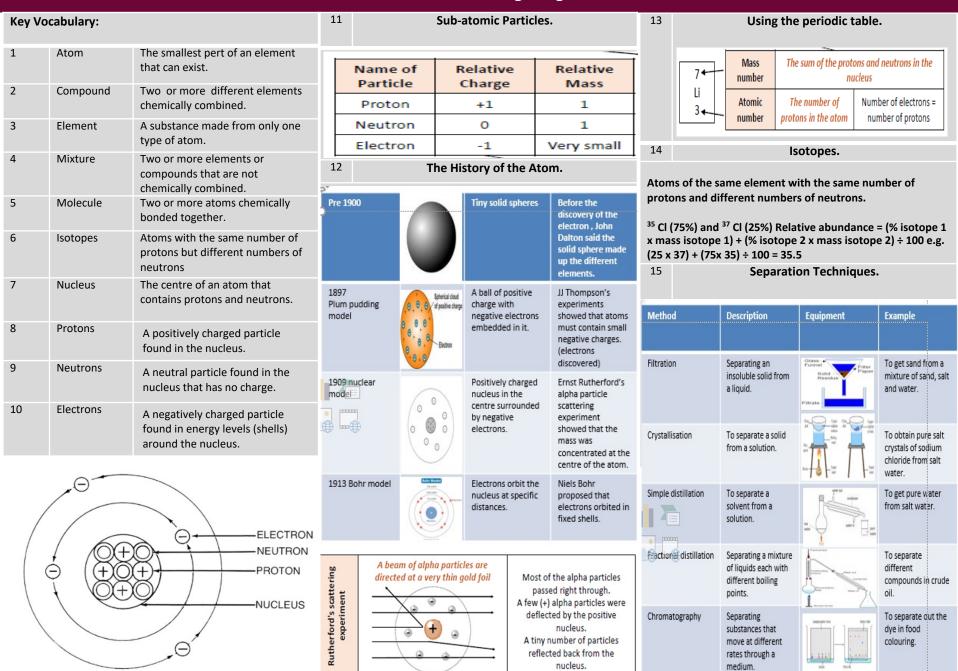
A tissue with red blood cells, white

blood cells, platelets, and other substances suspended in fluid called

Blood

2	Blood Vessels	plasma. Blood takes oxygen and nutrients to the tissues, and carries away wastes. A tube through which the blood circulates in the body. Blood vessels include a network of arteries, arterioles, capillaries, venules, and veins.	Pla Re	ite Blood Cell — telets ————————————————————————————————————		Blood Vessel	O Post of the Post	Vena cava (from the body) Valves Right atrium	Pulmonary vein (from the lungs) atrium Left atrium Left ventricle Septum
3	Heart	The heart is a fist-sized organ that pumps blood throughout your body. It's the primary organ of your circulatory system. Your heart contains four main sections (chambers) made of muscle and		sma —				NASAL CAVITY	Gas Exchange TRACHEA LUNG
		powered by electrical impulses. Your brain and nervous system direct your heart's function.	_	DMPONENT	LS E	STRUCTURE BICONCAVE DISCS NO NUCLEUS BUT I PROTEIN HAEMOGL	LENTY OF THE	INTERCOSTAL MUSCLE RIBS DIAPHRAGM	BRONCHUS
4	Gas Exchange	Is the physical process by which gases move passively by diffusion across a surface	w	HITE BLOOD C	10	LARGE CELLS CON' NUCLEUS, DIFFERE SLIGHTLY DIFFERE AND FUNCTIONS	NT TYPES HAVE		ALVEOLI
5	Alveoli	Tiny air sacs in the lungs that increase the surface area for gas exchange.	_	ASMA		FRAGMENTS OF CE		13	Respiration
6	Respiration	An exothermic reaction in which glucose is broken down using oxygen to produce carbon dioxide and water to release energy for the cells.	10	Function	Artery Transports blood from heart to org	the blood from	Capillary Carries blood to organs where gas exchange occurs	GUCOSE + OKYGEN → WITOGHOND	RIA MUSCIE CONTRACION
7	Anaerobic	An exothermic reaction in which		Thickness of Wall	Thick	Thin Less elastic	Very thin (1 cell thick)		
		glucose is broken down in the absence of oxygen to produce lactic		Elasticity	Elastic wall	walls	Inelastic walls	we eat. It involves the break	y of producing energy from the food down of glucose in the presence of
		acid in animals and ethanol and carbon dioxide in plants and yeast.		Size of lumen	Narrow lum	nen Large lumen	Very narrow lumen		and water with the release of scalled ATP. We can also generate
		A small amount of energy is		Valves	No valves	Valves	No valves		gen, but this is a much less efficient
		transferred for the cells.		Pressure of Blood	Very high	Very low	Low	process.	

Year 10 Autumn Term Science Knowledge Organiser Atomic Structure



Year 10 Science Autumn Term Knowledge Organiser – Structure and Bonding

Ionic Bonding

Structures

Structure and Bonding of Carbon

20

Types of Bonding

Key Vocabulary:

Covalent

The bond between wo atoms that

17

	Bond	share one or more pairs of electrons.	Occurs when a metal atom reacts with a non-metal				
2	Covalent Bonding	The attraction between two atoms that share one or more pairs of	atom. • Electrons in the outer shell of the metal atom are Name of structure	Diamond G		Graphene Fullerene	
3	Dot and	electrons. A drawing to show only the	 transferred to the non-metal atom. This means that the metal ion has a positive charge and bonds 	4 3	3	3	
	Cross Diagram	arrangement of the outer shell electrons of the atoms or ions in a substance.	the non-metal ion has a negative charge. • Between the ions, there is an electrostatic attraction which forms an ionic bond. Any delocalised electrons?		es \	'es	
4	Double Bond	A covalent bond made by the sharing of two pairs of electrons.	Hardness Hardness	Very hard so		Flexible	
5	Fullerene	Form of the element carbon that can exist as large cage-like structures, based on hexagonal rings of carbon atoms.	sodium atum, Na chloride ion, Na* [2,8] + Cl [2,8,8] Conduct electricity	No ye		res	
6	Giant Covalent	A huge 3D network of covalently bonded atoms.	 Covalent Bonding Occurs between non-metal atoms. Electrons are shared between the atoms so that they 	Very high H	igh F	High	
7	Structure Inter- molecular	The attraction between the individual molecules in a covalently	both have a full outer shell. Covalent bonds are strong and require a lot of energy to			Electronics Nanotubes	
	Forces	bonded substance.	 break the bonds. When drawing covalent molecules we use "dot cross 	Diamond	Graphite		
8	lon	A charged particle produced by the loss or gain of electrons.	diagrams" as we do with ionic compounds. It is important to represent the electrons on one atom with a	## F			
9	Ionic Bond	The electronic force of attraction between positively and negatively charged ions.	dot and on the other atom with an X.			fullerene	
10	Molecule	A substance which contains two or more covalently bonded atoms	CI CI H CI O O O		perties of Ionic, Covalent and Netallic Substances		
11	Lone Pair	A pair of electrons that are not part of the covalent bond.		onic Small covalen		Metals and	
12	Electrons	Negative particles found in the shells of atoms	a Occurs only in motols	digh Low	structures High	alloys High	
13	Polymer	A long chain molecule made up of	The metal atoms form a regular pattern and they donate The metal atoms form a regular pattern and they donate The metal atoms form a regular pattern and they donate	ligh Low	High	High	
14		repeating monomers	– these electrons are free to move.	Only melted or No dissolved in vater	No (apart from graphite)	Yes	
17	Monomer	The small molecules that join together to make polymers	shells of metal atoms	No No No Inittle N/A	No (apart from diamond)	Yes Malleable	
15	Delocalise d	Electrons which are free to move anywhere	+ + + + + + + + + + + + + + + + + + +	Salt (sodium chloride) . Oxygen . Oxygen	Diamond Graphite Sand	Iron Steel	
16	Alloy	A mixture of a metal and another element to change its properties	metal ions	Sulfate	- suru		

Year 10 Science Autumn Term Knowledge Organiser - Matter

Key Vo	ocabulary:		11	Density			14	Heating Curve	
1	Density	How much mass a substance contains compared to its volume. Solids are usually dense because the particles are closely packed.	density than water calculated by meas	The density of water is 1000kg/m3. Objects that have lower density than water will float in water. Density can be calculated by measuring its mass and volume. Measure volume of a cuboid a x b x c				Boiling Point Liquid - Gas Melting Condensing	
2	State of matter	The way in which the particles are arranged – solid, liquid or gas.	object can be found	by dropping in a liquid and measuring			Melting Point	Scild - Liquid Freezing	
3	Physical Change	A change that can be reversed to recover the original material. E.g. a change of state.	When reading a meni	liquid meniscus	observer reads the bottom of the meniscus			Time (seconds)	
4	Chemical Change	A change that creates new products. It should not be reversed. E.g. a chemical reaction.	observer must read the of the meniscus. 12	States of Ma		in one	Solid Particles are closely packed, fixed and arranged regular layers. As more energy is absorbed the kinetic energy and therefore the internal energy the material increases.		
5	Specific Heat Capacity	The specific heat capacity of a substance is the amount of energy required to raise the temperature of one	of three states. Sol	lids, liquids and gase gement of particles o	s are made of pa	Melting	Temperature doesn't change. Energy is used to weaken the forces between particles. As more energy is absorbed the potential energy and therefore the internal energy increases.		
6	Temperature	kilogram of the substance by one degree Celsius. The average kinetic energy of the	me me	liquefying, melting freezing.				Particles are touching but no longer arranged regularly. They are able to move. As more energy is absorbed the kinetic energy and therefore the internal energy of the material increases.	
	·	particles.	SOLID molecules held in fixed pattern but	LIQUID molecules packer close together in	d molecul	AS les widely ted, move	Evaporation	Temperature doesn't change. Energy is used to weaken the forces between particles. As more	
7	Specific Latent Heat	The amount of energy required to change the state of one kilogram of the substance with no change	vibrating	random fashion, free to move	at grea	at speec		energy is absorbed the potential energy and therefore the internal energy increases.	
8	Latent Heat of	in temperature. Energy required to change state		Process in which a gas to Process in which a liquid			Gas	Particles move randomly. As more energy is absorbed the particles move more quickly and the temperature increases	
Ü	fusion	from solid to liquid.		Process in which a liquid			15	Internal Energy	
9	Latent Heat of Vaporisation	Energy required to change state from liquid to vapour.		rocess in which a solid			The energy stored by the particle of a substance is called its internal energy. This is caused by their individual motions and positions. The internal energy is the sum of a particles: • Kinetic energy (due to their individual motions relative to		
10	Gas Pressure	The force exerted by gases on	Sublimation Pr	Process in which a solid	turns into a gas				
	surface as the particles collide with it. As temperature		13	Equation	ıs		each other) • Potential energy (due to their individual positions relative to each other)		
		increases, gas	Calculation	Equation Symbol Units					
		pressure increases if the volume	Density (REMEMBER)	Mass+ volume	P = m + v k	kg / m ³	,	temperature increases the internal energy of a	
		stays constant.	Specific latent heat of fusion	Energy + mass	L _f = E ÷ m J	I / kg	substance bed		
			Specific latent heat of vaporisation	n Energy + mass	L _v = E ÷ m J	l / kg	Increases kirIf it melts or	boils it increases the potential energy	

Year 10 Science Autumn Term Knowledge Organiser Plants and Material Cycling 1

Kev V	Key Vocabulary:		11 Photosynt	hesis	14 Fac	ctors affecting photosynthesis
1	Photosynthesis	The process by which plants	Photosynthesis Produces Glucose Usin	g Light		
		make food using carbon dioxide, water and light.	carbon dioxide + wateright	glucose + oxygen	the rate of photosy	
2	Chlorophyll	The green pigment contained in chloroplasts.	Photosynthesis is the process of using make sugars.	energy from sunlight to	stop photosynthesi	s can become the limiting factor – it can is happening at a faster rate.
3	Carbon Dioxide	Carbon dioxide is colourless, odourless gas.	It takes place in the leaves. Chloroplast are packed with a pigment chlorophyll		photosynthesis, the	a combined effect on the rate of e factor limiting at the time depends upon
4	Oxygen	Oxygen is formed in the process of photosynthesis, this is released as waste from the plant but oxygen is also required by the plant in aerobic respiration, just like animals.	Chlorophyll absorbs sunlight and uses dioxide and water into glucose (a simp Photosynthesis is a chemical reaction t more energy is taken in by the reaction The carbon dioxide required enters the stomata. The water enters through the leaf through the xylem.	e sugar) and oxygen. hat is endothermic – I than given out. I leaf through the		conditions – at night light is limiting, in perature. If it is warm and bright, it is often
5	Glucose	A simple sugar.	12 Plant Co	ell	vsolo	olosy
6	Endothermic	A reaction that requires a transfer of energy from the environment.	nucleus cell wall cytop	cell lasm membrane	10 e a b a c a c a c a c a c a c a c a c a c	Required Practical
7	Rate	The rate of reaction is the rate at which products are formed, or the rate at which reactions are used up, in a reaction.			Bubbles Pondweed	Desk lamp
8	Light	Photosynthesis is an endothermic reaction as it requires light energy to react carbon dioxide and water to produce glucose and oxygen. The light energy required is	chloroplasts vacuole mi	tochondria	Move lamp away by intervals up to 50	20 30 40 50 Ruler
		absorbed by a green pigment	13 Uses of the Gluco		17	Cross Section of a Leaf
		called chlorophyll in the leaves.	Respiration – this process transfers end	~.		
9	Respiration	to drive the chemical reactions needed to keep organisms alive – the reactions to build complex carbohydrates , proteins and lipids from the products of photosynthesis in plants, and the products of digestion in animals, require energy.	breakdown of glucose, for heat, mover reactions. Cell Walls – glucose is converted into coll walls. Making amino acids – glucose is combibuild amino acids which can be used to Stored as oils or fats – glucose is turner seeds. Stored as starch – glucose is used to bustored as starch in roots, stems and least	ellulose to build strong ned with nitrate ions to build proteins. d into lipids for storing in ild long chains and	Palisade	Waxy coating Upper epidermis Air spaces
10	Cellulose	The complex carbohydrate that makes up plant and algal cell walls and gives them strength.	winter when less photosynthesis occur unlike glucose does not cause water to	s. Starch is insoluble so	→ = diffusion of oxygen	Spongy cells Lower epidermis Stoma

Year 10 Science Term Knowledge Organiser – Organising an Ecosystem Combined Science

Key	Key Vocabulary:		12 Interdependence				16 Adaptation			
2	Environment Habitat	The conditions surrounding an organism, biotic and abiotic. A habitat is a place where an	All organisms in an ecosystem depend upon each other. If the population of one organism rises or falls, then this can affect the rest of the ecosystem. Adaptations maybe structural, behavioural or Physiological Adaptations				oural or			
_	Habitat	organism lives.	A sim	ole food chain is:			Plants	Animals	Extremophiles	
3	Community	Populations of different species Living in a habitat.	OAK T	REE LEAVES CATERPILLAR	TREECREEPER (SMALL BIRD)	HAWK	Cactus in dry, hot desert	Polar bear in extreme cold artic	Deep sea vent bacteria	
4	Competition	Competition is an interaction between organisms or species in which both require a resource that is in limited supply (such as food, water, or territory).		ODUCER PRIMARY CONSUMER	SECONDARY CONSUMER	TERTIARY	No leaves to reduce water loss, wide deep roots for absorbing water.	Hollow hairs to trap layer of heat. Thick layer of fat for insulation.	Populations form in thick layers to protect outer layers from extreme heat of vent.	
5	Interdependence	Within a community, each species depends on other species for food, shelter, pollination, seed dispersal etc. If one species is removed it can affect the whole. This is called interdependence.	light, s ecosys	otosynthesising plants and alg space, water and minerals from stem compete for food, mates Abundance a	n the soil. Animal and their territon and distribution	ls in an ry.	environment. An e most organisms we survive. The organi	an organism that liv extreme environment ould find it difficult o sms that live in thes cions. Examples of ex	is one in which r impossible to e places have highly	
6	Abiotic factors	Non –living factors in an ecosystem that affect distribution and abundance of organisms.	their o	their distribution is affected by abiotic factors and biotic factors. Abiotic factors include light intensity, temperature, moisture levels,				environments include the Polar Regions, deserts, the deep ocean bed, hot geothermal springs and the tops of our highest mountains.		
7	Biotic	Living factors in an ecosystem	Biotic	factors include food availabilit	y, predators, nev	w pathogens.	17	Carbon Cycl	e	
		that affect distribution and abundance of organisms	15 su	Wate	er Cycle			combustion		
8	Producer	Producers are plants and algae, which photosynthesise.		COOLING	PRECIPITATION			decomposers	respiration	
9	Consumer	An organism that obtains food by feeding on other organisms or organic matter due to lack of the ability to make own food		TER VAPOUR TRANSPIRATION		4	fossil fuels	death waste materials	carbon dioxide in air	
10	Ecosystem	An ecosystem is the interaction between a community of living organisms and their environment.	E	VAPORATION SURFACE RUN-OFF	PERCOLA	ATION	feed	respiration	my .	
11	Decomposers	Microorganisms that break down waste products and dead bodies.		ABSORPTION OF WATER THROUGH PLANT ROOT				photosynthesis		
							C The carbon cycle			

Year 10 Art and Design Autumn Term Knowledge Organiser

Key	/ Vocabulary:				
1	The Formal Elements of Art	The formal elements of art are used to make a piece of artwork. These elements are line, tone, texture, shape, pattern and colour. They are often used together, and how they are organised in a piece of art determines what the finished piece	10	scale	The scale of something is its size. To scale something is to enlarge it. To scale down is to do a smaller version or reduction.
2	line	will look like. A line is a mark or link between two points.	11	balance	If a picture or piece of artwork has balance, then each part of it works well together in a whole piece.
3	mark	Mark making describes the different lines, dots, marks, patterns and textures created to produce a work of art. Artists often use mark making and gestural qualities to express their	12	composition	The arrangement of elements in a piece of art.
		feeling and emotions in response to something seen or something felt.	13	moodboard	Imagery collected relevant to a theme. It can be a range of different ideas, not just one. It displays your ideas at the start of a
4	tone	Tone refers to the light and dark values of an object when drawing. There are three different types of tone. Shadows, mid-tones and highlights. Value in art is essentially how light			journey. For example, internet imagery, magazine cuttings and photography can be used together.
5	texture	or dark something is on a scale. For example, a tonal ladder. Texture stimulates two different senses such as sight and touch. For example, a visual and tactile texture.	14	(AOs)	GCSE Art and Design assessment objectives. There are four assessment objectives. AO1, AO2, AO3 and AO4.
6	shape	Shape is a flat enclosed area created by a closed line or by a solid colour.	15	Artist Research	Showing your understanding of artworks and styles. For example, how they have influenced the work of others and
7	form	Form can refer to a three-dimensional composition or object.	16		personal ideas.
8	pattern	A repeated or mirrored design, which can be natural or manmade.	10	Artist Response	Showing your understanding of artworks and styles and how they have influenced personal ideas.
9	colour	Colour is the element of art that is produced when light, strikes an object, and is reflected back to the eye. A colour wheel is an illustrative organisation of colour hues around a circle, which shows the relationships between primary colours, secondary colours and tertiary colours.	17	Critical Understanding	Showing an ability to analyse the work of others. Engaging with ideas, images and identifying how values and meanings are conveyed. Looking at content, form, process and mood when discussing 2D and 3D work.

Year 10 BTEC Tech Award Child Development: Component 1 - Children's Growth and Development

A – Understand the principles of growth and development

Key	Key Vocabulary:					
1	Growth	Changes to physical size, the skeleton, muscles and the brain, children's height, weight and head circumference.				
2	Ultrasound Scan	A high frequency sound wave that creates an image on a screen of inside the body.				
3	Gestation	The period of time during which the baby develops in the womb.				
4	Caesarean Section	Birth through an incision made in the abdomen.				
5	Neglect	The failure to care for a child properly				
6	Development	The gaining of skills and knowledge over time.				
7	Milestone	A stage or event in a process.				
8	Average	A number showing the typical value in a set of data, in particular the mode, median or most commonly the mean.				
9	Mean	An average worked out by adding all the numbers up and dividing by the number of numbers.				
10	Babbling	The stream of sounds babies make before they can say actual words.				

A1 Understand how and why growth is measured

11 How growth is measured and recorded:

- Personal Child Health Record (PCHR) 'Red Book' tracks progress/records immunisations
- Centile charts track height and weight
- Parents'/carers' own records
- Two-year-old health check
- National Child Measurement Programme (NCMP) for 4–5-year-old children.

Roles and responsibilities of health professionals involved in measuring and monitoring:

- Health professionals midwives, health visitors, General Practitioner (GP)
- Social care social workers, family support workers
- Early years educators childminder, nursery manager, key person
- Parents/carers.

The Principles of Development Skills and knowledge gained over time Can happen at different rates for different children Milestones – Developmental norms -These are often separated into stages according to the age at which they are most likely to happen. A3

Physical development – gross motor skills: large movement of limbs; fine motor skills: movement of fingers, developing hand-eye coordination.

Development across ages of birth to 18 months

Cognitive and intellectual development – thinking and learning development of information processing, memory, problem-solving skills.

Communication and language development – speaking, listening and understanding, for example, speech sounds and language, listening and attention, social skills.

Social development – development of secure, positive relationships with others. For example, 3 months – responds with pleasure to loving attention, enjoys being held.

Emotional development – developing trust, independence and emotional resilience. For example, caregivers by crying, turning their head, smiling and giggling as their needs are met, babies develop a bond of trust with their carer.

A4 Development across ages of 18 months to three years

14

Physical development – locomotion and hand-eye coordination, for example, 18 months – walks steadily and stops safely, climbs stairs with hand held, can ride a balance bike and sit-and-ride toys.

Cognitive and intellectual development – thinking and learning, for example, 2 years – recognises pictures in a book, enjoys simple makebelieve play.

Communication and language development – speaking, listening and Understanding, for example, says words, gestures, understands more, repeats what adults say.

Social development – development of secure, positive relationships with others, for example, 2 years, 6 months – eats with a spoon, plays with other children, not sharing toys.

Emotional development – developing trust, independence and emotional resilience, for example, 18 months – mood swings from dependence to independence, beginning to show empathy.

15 <u>A5</u> Development across ages of three to five years

Physical development – developing locomotion and balance, for example, 3 years – walks on tip-toe, balances on one foot, rides a tricycle using pedals, throws, catches a ball with arms stretched out and kicks a large ball with control, holds a pencil between thumb and two fingers, cuts paper with scissors.

Communication and language development – speaking, listening and Understanding, for example, 4 years - counts up to 10, repeats songs and nursery rhymes, some simple problem solving with toys and games

Communication and language development – speaking, listening and Understanding, for example, 5 years – fluent speech, grammatically correct, can understand a wider range of vocabulary, can understand complex instructions.

Social development – development of positive relationships with others outside the family, for example, 3 years - plays with other children, beginning to take turns and share toys.

Emotional development – developing trust, independence and emotional resilience, for example, 5 years – close friendships, learns to cope with emotions and bounce back when Disappointed, understands social rules but may need an adult to sort

out conflicts.

<u>Year 10 BTEC Tech Award Child Development: Component 1 – Children's Growth and Development</u>

B – Understand how factors impact on children's overall development

Key Vocabulary:						
1	Foetus	Means offspring and is what a human baby in the womb is called after 8 weeks.				
2	Congenital	A condition that a child is born with.				
3	Chronic	Long lasting (used about a health condition)				
4	Stable	Secure, even and well balanced.				
5	Prescription Drugs	Medication that is prescribed for a person by a medical professional.				
6	Illegal Drugs	Drugs that are not prescribed and have no benefit for health.				
7	Regress	Return to an earlier state or stage of development.				
8	Rivalry	Competitiveness over the same objective or over someone's attention.				
9	Food Bank	A charity that provides food for free to people in need.				
10	General Anaesthetic	A state of being unconscious controlled by a medical professional.				

<u>B1</u> Physical Factors

Factors in pregnancy affecting child – prenatal and maternal nutrition/exercise, effects of parental smoking, drug or alcohol use, premature/low birth weight.

- Disabilities/additional needs hearing impairment, visual impairment, cerebral palsy, Down's syndrome.
- Health status chronic illness (asthma, eczema), repeated short-term illness (colds, ear infections, vomiting and diarrhoea), obesity.
- Benefits of healthy balanced diet, effects of nutritional deficiencies (vitamins, minerals), effects of unhealthy diet.
- Amount of exercise.







12 <u>B2</u> <u>Environmental Factors</u>

- Housing positive aspects of housing (warm, dry, own space);
 experiencing housing needs (damp housing, overcrowding), temporary accommodation, access to garden, space to play.
- Home environment stable support from parents, contact with extended family, living with parental conflict, parents' mental or physical health, effects of drugs, alcohol or smoking.





<u>B3</u> Social Factors

13

- Effects of discrimination (disability, race, home situation).
- Effects of relationships with primary carers (parents/carers, early years practitioners), quality of warmth, affection and attention received.
- Effects of siblings new baby, number of siblings, no siblings, stepsiblings.
- Effects of relationships with extended family and friends grandparents, step-relatives, aunts and uncles, close friends.



14 <u>B4</u> Financial Factors

- Low income poverty, unemployed families, more contact with parents, food banks, free school meals, funding for childcare (vouchers).
- High income parental pressure of work, less contact with parents, extra resources and toys, extra opportunities, experience of travel.
- Access to services health services (dentist, health visitor), early years education (preschool, nursery) and experiences (parent and baby singing groups, sports clubs, parent and tots groups).







Year 10 GCSE Computer Science Autumn Term Knowledge Organiser Computer Systems

Key Vocabulary:			Boolean Logic continued	Programming Languages and Translators continued	
1	Hardware	Parts of a computer that can be physically touched.	14 OR Gate:	18 Programming Languages continued	
2	Peripherals	External pieces of hardware.	A B Out 0 0 0 0	High –level language – Easier for humans to write and understand, but the computer needs to translate it before it can be read and run e.g. Python, and Java	
3	Software	Programs that a computer system runs	Out 0 0 0 0 0 0 0 1 1	19 Translators:	
4	Computer System	Consists of hardware and software working together to process data and complete tasks.	1 0 1 1 1 1	Computers only understand instructions given to them as machine code, high level languages and assembly languages need to be translated using one of the following translators:	
5	Input	Data entered into or received by a computer.	15 XOR Gate:	 Assembler – Translates assembly languages directly into machine code 	
6	Process	Determines what the computer does with the input.	A B Out	 Compiler – Translates high level code directly into machine code. Interpreters – Don't translate directly into machine code- 	
7	Output	How the computer presents the results of the process.	0 0 0	instead they take each instruction in the code and call machine code subroutines within their own code to carry	
8	Volatile	Memory is erased when the power is switched off.	$A \longrightarrow Out \qquad 0 \qquad 1 \qquad 1$	out that instruction. Systems architecture:	
9	Non-Volatile	Memory is retained when the power is switched off.	1 0 1 1 1 0	20 CPU Components	
10	Sub-routine	A set of code within a program that can be called at any time from the main program	Software Classification	The Central Processing Unit(CPU) is the brain of the computer system and processes all data and instructions that	
11	Embedded System	A computer built into another device Eg Smart TV	Software designed to run and maintain a computer system.	make the system work. The 5 main CPU Components: Arithmetic logic unit (ALU) – Gets data from the CU, performs	
	·	Boolean Logic	The most important one is the operating system. The main functions of the operating system are the management of:	an operation on it and sends the output back to the registers. Control unit (CU) – Controls the flow of data and keeps track	
12		NOT Gate:	Processor(s), Memory. Input/output devices, Applications and Security	of the memory address of the instruction for each cycle. Clock – Signals when instructions will be carried out.	
	_	A Out	Utility programs are used to maintain or configure a computer:	Register – Holds any data, instructions and memory addresses that are about to be used by the CPU.	
A——out 1 0			Defragmentation, Disk Health, Compression, Encryption, Backup, Virus scanners, System Clean	Bus – Wires through which data/signals are transmitted from one component to another.	
0 1			up, Firewalls	21 Fetch-Decode-Execute Cycle:	
13 AND Gate:			17 Application Software: Software that is designed to help the user perform specific	Fetch – Instruction is fetched from the CPU to main memory Decode – The instruction is decoded	
		A B Out	tasks e.g. word processors, web browsers, games etc.	Execute – The instruction is carried out	
Α-	$\overline{}$. 0 0 0	Programming Languages and Translators	22 Memory and Storage	
B-	1)—,	out		Main Memory: Secondary Storage:	
		0 1 0	18 Programming Languages Low-level language – Close to what the CPU would actually	Random Access Memory (RAM) - Volatile Solid State, Optical, Magnetic	
		1 0 0	do and is written for specific hardware e.g. machine code and	Read Only Memory (ROM) –	
		1 1 1	assembly languages.	Non-Volatile Cloud Storage	

Y10 Knowledge Organiser Enterprise R068 TASK 1 & TASK 2

Business Scenario

Class Designs is a small business producing t-shirts. The business has been trading as a partnership for three years and is run by two partners. It produces and sells the t-shirts from a unit on a local business park. The business uses word-of-mouth and social media advertising to promote the t-shirts.

Class Designs is currently selling to customers in the local area only. The partners would like to increase brand awareness and sell the t-shirts nationwide. To grow the business a new website has been created that will accept online orders.

To help support the launch of the new website, Class Designs want to create a new range of t-shirt designs that they can sell on their new website. You have been asked to carry out market research to see what t-shirt designs customers would like. Using this information, they would like you to create a new t-shirt design.

1. What is Market Segmentation?

Market segmentation is the process of grouping potential customers together based on different factors. It is basically the method used by businesses to identify their target customer/market. Markets can be segmented in different ways and some businesses choose to use more than one characteristic to specifically segment their market.

2. How can markets be segmented?

- * Age This is basically how old the customer is. Businesses tend to segment their market into age brackets. Toys, for example, are aimed at younger audiences, potentially between ages 3 and 13.
- * **Gender** This is whether the target customers are typically going to be male or female. Make-up, for example, is targeted at females this doesn't mean that males cannot buy it, it is just who the business is targeting!
- * Occupation Occupation means the job or career that the people within the target market may have. This could be a specific job, for example Screwfix™ aiming their products and marketing at people who work in manual trades such as plumbers, electricians etc.
- * Income Some businesses segment their market based on how much money their potential customers make. Luxury branded items, for example, will be targeted at customers with more disposable (spare) income.
- * Geographic This is when businesses segment their market by their location. A local newspaper, for example, will segment their market to include only those in the area in which the newspaper reports.
- * Lifestyle Businesses could segment their market based on what their customers' lifestyle is like; this is basically their hobbies, their routines and their habits. Some people enjoy going on holiday abroad each year, this is their lifestyle.

3. What is a customer profile?

The ideal customer for a business/product described through using market segments.

4. What are the benefits of Market Segmentation?

By segmenting their market, businesses are:

- Able to focus on the wants and needs of specific customers and more likely to meet these wants and needs.
- More likely to make sales because they've focused on specific
- groups of people (if they segment successfully).
- More able to focus their advertising and other marketing at the right groups of customers – if their market is segmented to include female customers, then the business could choose to advertise in magazines aimed at females, for example.
- Able to tailor their products and services to suit their customers; they will know what people in their segment typically prefer.

5. How do customers vary (how are they different)?

Customers' needs vary because of:

- The amount of money they are **able** to spend
- The amount of money they are willing to spend (some customers have more money, but may not be willing to spend this money)
- The quantity of products or services they require
- The quality of products or services they require
- The location in which they want to or can purchase items
- The **time** at which they want to or can purchase items.

6. What is Market Research?

Market research is the process of finding out what customers want and what they need. Businesses typically carry out market research before developing a new product as well as during the testing of the product to get the opinions of their potential customers.

7. What is the purpose of Market Research?

The purpose of market research is to find out what customers want and need – this helps businesses develop products that are more likely to be successful. Research also helps understand customers' tastes and opinions and can change the design or specification of products. Finally, market research can also be used to gauge what products are already on the market and what competitors are doing.

8. What is Primary (Field) Market Research?

Primary research, also known as field research, is when businesses gather their own data and information. This can be done through surveys, questionnaires, focus groups, observations and consumer trails. The data gathered is unique to the business and does not already exist.

9. What are the benefits of Primary (Field) Research?

Carrying out primary research means that the results are exactly what the business wants to find out, because this research has been tailor made for their own specific needs. Data generated from primary research will also be up-to-date.

10. What are the drawbacks of Primary (Field) Research?

Primary research is usually more expensive to carry out than secondary research because the business is creating and analysing everything from scratch. This also means that primary research is more time consuming to carry out.

11. What is Secondary (Desk) Market Research?

Secondary research, sometimes called desk research, is when the business uses data or information that already exists. This is not tailor made for the business. Methods of secondary research include internal data, books, newspapers and data already collected by competitors, the Government or other sources of statistics.

12. What are the benefits of Secondary (Desk) Market Research? Secondary research is quicker to complete, because the data has

already been collected and, in some cases, analysed.

Secondary Research is also cheaper to carry out — looking in newspapers for information on competitors is clearly cheaper than preparing, carrying out and analysing a questionnaire, for example.

13. What are the drawbacks of Secondary (Desk) Market Research?

The data that is collected from secondary research is not unique and not specific to the business's needs, unlike when primary research is carried out. Data from secondary research is also widely available, which means competitors will also have access to it.

Y10 Knowledge Organiser Enterprise R068 TASK 3 AND Task 4

1. What is a the Design Mix?

These design factors - function, cost and aesthetics - are mixed together in different ways in order to appeal to different target markets close target market

2. Economic Manufacture

How much is costs to make the product.

3. Aesthetics

What the product looks like

4. Function

What the product does

6. Mind Map

Use their market research outcomes to show the most and least popular options.

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5. What are Creative Techniques?

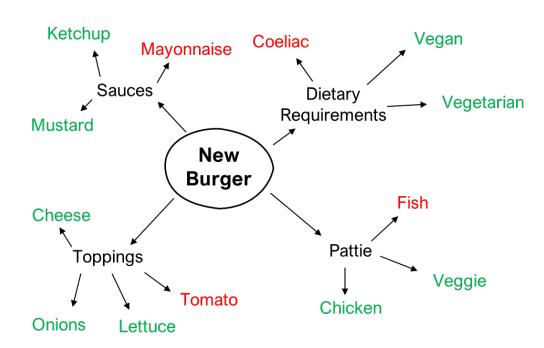
Ways to plan and think to allow the design to generate different ideas.

7. Mood board

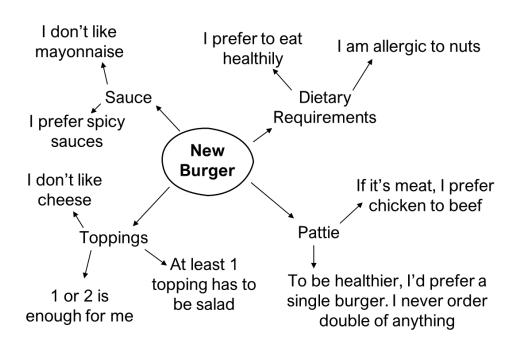
A collection of images, materials, pieces of text and colours. Linked to project a particular style or concept.

8. Brain shifter

The product developer has produced a mind map as if they were their customer profile.







Unit 1A – Climate Change#

4. Global impacts of Climate Change

The impact of rising temperatures is affecting the world socially, economically and environmentally in several potential problematic ways.

Rising sea levels

Food supply

Plants and

Disease and

Water Supply

Climate refugees

Milankovitch

Sun Spots

Volcanic

Eruptions

2.

Sun.

cooler global temperatures.

cycle

Health

Animals

Extreme Weather Climate is causing more unpredictable and severe weather events. This includes more frequent and powerful tropical storms; more extreme heatwaves and lasting droughts. E.g. Typhoon Haiyan 2013

Sea levels have risen by 20 cm since 1901. due to thermal expansion, melting glaciers and ice caps.

Some coastal countries are now disappearing such as the Maldives in the Indian Ocean.

Warmer temperatures and changing rainfall will make it harder to produce a reliable source of food to sustain a rising global population. E.g. In 2011, Russia banned crop exports after a incline in yield.

About a quarter of animals and plants on Earth could become extinct. With warmer temperatures and changing rainfall environments will no longer be able to provide for the world's fragile ecosystems.

infectious diseases like malaria. In addition, more

People need freshwater to drink but with 1 billion people predicted to not have excess to enough

water by 2025 due to climate change, this might

problems. E.g. fishing, irrigation and sanitation.

Climate refugees are people who are forced to

leave their home due to the impact of climate

frequent floods could cause more waterborne

disease such as dysentery.

Warmer temperatures will increase the spread of

Nitrous Oxide

dioxide

Methane

billion years.

cause several social, economic and environmental

change. This can be due to sea level rises or extreme weather conditions such as drought. 1. What is Climate Change?

Climate change is a large-scale, long-term shift in the planet's weather patterns or average temperatures. Earth has had tropical climates and ice ages many times in its 4.5

The quaternary period is the last 2.6 million years. During this period temperatures have

always fluctuated. The cold 'spikes' are the glacial periods, whereas the warm points are the interglacial periods.

Most greenhouse gases occur naturally. Some greenhouse gases have

3. The Greenhouse Gases

greater potential to increase global warming than occurs as different gases trap and absorb different amounts of radiation. Carbon

Accounts for 60% of the enhanced greenhouse gases. It

fertilisers and car exhausts.

is produced by burning fossil fuels through producing electricity, industry, cars and deforestation. Accounts for 15% of the enhanced greenhouse gases.

25x more efficient than Carbon dioxide. Produce from

landfills, rice and farm animals. Accounts for 6% of the enhanced greenhouse effect. 250x more efficient than Carbon dioxide. Produced from

2. Natural and Enhanced Greenhouse Effect

1. The Earth is kept warm by a natural process called the Greenhouse Effect. As solar radiation hits the

warmer.

Earth, some is reflected back into space. However, greenhouse gases help trap the sun's radiation.

Without this process, the Earth would be too cold to

support life as temperature would average as -18°C instead of +15°C.

2. Recently, there has been an increase in humans burning fossil fuels for energy. These fuels (gas,

coal and oil) emit extra greenhouse gases. This is making the Earth's atmosphere thicker, therefore trapping more solar radiation but causing less to be

7. Evidence for climate change

fluctuating temperatures of the atmosphere.

Ice cores are made up from different layers that each

represents a different historical time. By exploring the

water molecules of these cores, scientist have calculated

Historical records from ancient cave paintings, diaries and

world's glaciers and ice sheets are melting. E.g. the Arctic

written observations have provide evidence of climate

reflected. As a result, our Earth is becoming

5. Past Evidence: The Little Ice Age (1300-1870)

The Little Ice Age was a period of cooling that occurred after the Medieval Warm Period in parts of Europe and North America. Impacts included...

Ice Cores

data

alaciers

1. Price of grain increased and vineyards become unproductive. 2. Sea ice engulfed Iceland and the sea force around parts f the UK. Frost Fairs were held on rivers such as the River Thames.

People suffered from the intense cold winters as food stock were limited.

6. Natural Causes of Climate Change

Milutin Milankovitch argued that climate change was linked to the way the Earth orbits the Sun, and how it

wobbles and tilts as it does it. There are three ideas that are thought to change climate.

Eccentricity: Changes in the shape of Earth's orbit.

Obliquity: Changes in how the Earth tilts on its axis.

Precession: The amount the Earth wobbles on its axis. Dark spots on the Sun are called Sun spots. They increase the amount of energy Earth receives from the

Historical records

Ice sheets and

Global

temperature

change through personal accounts from the people through them. Evidence collected by NASA suggests average global temperatures have increased by more than 0.6°C since 1950.

Evidence from maps and photos have shown many of the

Volcanoes release large amounts of dust containing gases. These can block out sunlight and results in

Unit 1A – Natural & Tectonic Hazards

Primary Effects

Buildings and roads are destroyed by

earthquakes, volcanic eruptions or tropical

2. Primary vs Secondary Effects

Primary effects happen immediately and are caused by the hazard

itself whereas secondary effects happen later on, often as a result of

the primary effects.

Secondary Effects

The initial hazard can trigger other hazards

eg, earthquakes can trigger tsunamis.

4. Volcanoes and Earthquakes

Volcanoes occur at destructive and constructive plate margins.

At destructive margins, the denser oceanic plate moves down into

the mantle, where it melts. A pool of magma forms, which then

rises through cracks in the crust called vents. The magma erupts

and forms a volcano.

At constructive margins, the magma rises up into the gap created

Meteorological hazard These are caused by weather and climate including tropical storms, heatwaves and cold spells.		storms. eg, earthquakes can trigger tsunamis. Aid and emergency vehicles cant get through because of blocked roads or		At constructive margins, the magma rises up into the gap created by the plates moving apart, forming a volcano. Some volcanoes also form over parts of the mantle that are really		
Destructive Plate Margin	Two plates moving towards each other.	contaminated.	disease to spread as well as food shortages. The country's economy can be weakened.		ich can cover land, block out the sun and form pyroclastic flows.	
Constructive Plate Boundary	Two plates moving away from each other.	Electricity cables , gas pipes and communication networks can be damaged, cutting off supplies.	Damage to businesses can cause unemployment, and the reconstruction	·	ccur at all three types of plate margins.	
Subduction	The downward movement of the edge of a plate of the Earth's crust into the mantle beneath another plate.		process can be very expensive.	The plates get stu	used by the tension that builds up at all three types of plate margin. ck when moving past, towards or away from rentually jerk past each other, sending shock	
Conservative Plate Boundary	Two plates moving past each other or moving in the same direction but in different speeds.	Morinass Frank Frank	Mark mark	waves. Th	hese vibrations are the earthquake.	
Hotspots	Parts of the mantle that are really hot.	Indian Ocean	Koth America		s spread out from the focus where they are inger and cause more damage.	
Pyroclastic Flow	Super-heated currents of gas, ash and rock.	Astolia	Occur Mids	Earthquakes are m	neasured using the moment magnitude scale.	
Focus	The point in the Earth where the earthquake starts.	America Ocean America on America on	Andrew Andrew	·	5. Types of Plate Margins	
Epicentre	The point on the Earth's surface straight above	3. Immediate vs Lo	ng Term responses		Destructive Plate Margin	
Continental crust	the focus.	Some effects have to be dealt with the natural disaster to stop further property. Others are deal	before, during or immediately after loss of life, injuries or damage to		Two plates moving towards each other. Where an oceanic plate meets a continental plate, the denser oceanic plate is subducted and destroyed creating magma. Volcanoes and ocean trenches	
Lithosphere Asthenosphere Continental-continental convergence		Immediate Responses Evacuate people (before the hazard occurs if possible). Treat the injured and rescue anyone cut	Long Term Responses Repair homes or rehouse people who have lost their homes.	Consens treat	occur here. Where two continental plates meet, the ground is folded upwards, creating fold mountains.	
Ashen	The state of the s	off by damage to roads or bridges.	railways and bridges.		Constructive Plate Margin	
	1. Tectonic Plates Recover dead bodies to prevent disease spreading.		gas and communication connections		Two plates are moving away from each other. Magma rises from the mantle to fill	
 The Earth's crust the mantle. There are two ty 	is divided into slabs called tectonic plates that float on pes of crust:	Provide temporary supplies of electricity and gas if regular supplies have been damaged.	evacuation plans.	Total States	the gap and cools, creating new crust. Volcanoes formed along this crack cause a submarine mountain range such as those in the Mid Atlantic Ridge.	
Oceanic crust is thi	thicker and less dense. nner and more dense.	Provide food, water and shelter to people without homes.	Improve building regulations so that buildings can withstand similar hazards in the future.	France Comment	Conservative Plate Margin	
•	oving by convection currents in the mantle. e plates meet are called plate boundaries.	Foreign governments or charities may send aid workers, supplies or financial donations.	Boost economic recovery eg, by promoting tourism.		Two plates moving past each other or moving in the same direction but at different speeds. Crust isn't created or destroyed.	

Definition

A natural process that can cause death, injury or disruption

These are caused by land and tectonic processes including

earthquakes, volcanoes, landslides and avalanches.

to humans or destroy property or possessions.

Key vocab

Natural Hazard

Geological

hazards

Unit 1A – Weather Hazards

Extreme Weather	Extreme weather includes unexpected, unusual, severe, or unseasonal weather that can cause harm.						
	HURRICANES EQUATOR CYCLONES CYCLONES CYCLONES CYCLONES Typical path of storm						
3. Tropical Storms							
Tropical storms develop between 5 and 30° north and south of the							

The force exerted on a surface by the air above it as

A wind blowing steadily towards the equator from the

Due to the Earth rotates on its axis, circulating air is

and toward the left in the Southern Hemisphere.

deflected toward the right in the Northern Hemisphere

the southern hemisphere, especially at sea.

north-east in the northern hemisphere or the south-east in

Definition

gravity pulls it to Earth.

Difference in wind speed.

Key

Air

vocab

Pressure

Trade

Winds

Coriolis

Effect

Wind

Shear

area of low pressure which increase surface winds. Easterly winds near the equator move tropical storms towards the west. The storm spins because of the Coriolis effect.

as the storm moves over the ocean, the energy from the warm water strengthens so wind speeds increase. Storm lose strength when they move over cooler water or land because the energy supply is cut off.

equator when sea temperature are 27°C or higher and the wind shear

is between higher and lower parts of the atmosphere is low.

The centre of the storm is called the eye and there is very low pressure, light winds, no clouds or rain and a high temperature.

The eye is surrounded by the eyewall where there is spiralling rising air, very strong winds, storm clouds, torrential rain and a low temperature.

Towards the edges of the storm the wind speed falls, the clouds

become smaller and more scattered, the rain becomes less intense

and the temperature increases.

Global atmospheric circulation is the transfer of heat from the equator to the poles by the movement of air.

1. Global Atmospheric Circulation

Air moves due to difference in air pressure - winds blow from high pressure areas to low pressure areas. The global atmospheric circulation system is divided into cells - each cell

has warm rising air that creates a low pressure belt and cool sinking air that creates a high pressure belt.

Each hemisphere has three cells. The sun warms the Earth, at the equator, causing the air to rise

- which creates a low pressure belt. As the air rises it cools and moves away from the equator. 30° north and south of the equator, the cool air sinks, creating a
- high pressure belt. At the ground surface, the cool air moves either back to the equator (as trade winds) or towards the poles. These winds curve because of the Earth's rotation which is called the Coriolis effect.

60° north and south of the equator the warmer surface winds meet

- colder air from the poles. The warmer air creates low pressure. 6. Some of the air moves back towards the equator, and the rest moves towards the poles.
- 7. At the poles the cool air sinks creating high pressure and this air is then drawn back towards the equator.

4. Climate Change and Management

Climate change may affect tropical storms. Global average sea temperatures have risen by 1.06°C since 1900 and are expected to rise more as a result of climate change.

Oceans will stay at 27°C or higher for longer each year. so there is a longer period that tropical storms can Frequency

form. As the average ocean temperature rises, more of the world's oceans could be above 27°C which means Distribution tropical storms could form in areas that haven't

experienced them before. Warm surface water evaporates, rises and condenses into clouds Higher surface temperatures are likely to result in more which releases energy producing powerful storms and creating an evaporation and increased cloud formation so more Intensity

> energy is release=d making more powerful storms. Ways to reduce effects of tropical storms

Prediction and

Monitorina

Plannina

Protection

Computer models can be used to calculate a storms

predicted path. Predicting where and when a tropical and Ice storm is going to happen gives people the opportunity to evacuate and protect their homes.

Schools and businesses can be forced to shut and disruption to travel can have economic impacts.

Water supplies can run low, causing economic impacts such as crop failures.

Slipping can cause injuries and death.

5. UK Weather Hazards

Weather hazards are common in the UK and it is not just rain...

Strong winds can damage properties and disrupt

Uprooted treed and debris can injure or kill people

Heavy rain can cause flooding which can damage

people. Recovery from flooding can cost millions of

homes, disrupt transport networks and drown

Drought

2. GAC Affecting Weather

A the equator, the sun is directly overhead which

means the Earth's surface receives solar radiation so

its hot. Warm, moist air rises and forms clouds so it

rains a lot.

By the time air reaches 30° north and south of the

equator, it has released most of its moisture as rain

so the dry clouds mean there is little rainfall and

deserts can be found here.

The UK lies close to the low pressure zone at 60°

north. Warm rising air brings lots of cloud cover and

rainfall, often as low pressure systems carried by the

Atlantic by westerly winds.

Ferrel cell

cooler, dry air

Hadley cell

Rising warm, moist air

Thunder storms

Heavy rain, strong winds and lightening can occur.

South Pole

Strong

Winds

Heavy

Snow

Rainfall

transport

Lightening can cause fires which can damage property and the environment.

Improved developments and new houses can avoid high risk areas, such as low-lying coastlines. Governments can plan evacuation routes and emergency services can prepare by practising rescuing

people from flooded areas.

Buildings can be designed to withstand tropical storms

as well as being put on stilts. Flood defences can be

build along rivers and coasts.

Heat Waves

Pollution builds up in the air which can cause heat exhaustion or breathing difficulties which can kill people.

Year 10 GCSE History AutumnTerm Knowledge Organiser Cold War Crises 1958-1970

Cuban Missile Crisis

Czechoslovakia

Berlin Crisis 1958-1963

Key Vocabulary:

1	Ultimatum	A final demand	14	Berlin Ultimatum 1958	17	Cuban Revolution 1959:	20	Causes of the Prague Spring:		
3	Migrate Capitalism	attached to a threat. To move from one place to another political system in which a country's trade and industry are	month le Betweer million E Khrushcl	problem escalated to 20,000 a eaving East Berlin for the West. In 1949 and 1961 an estimated 2.7 East Germans left for West Germany. They demands Western allies leave ithin 6 months. Nicknamed 'brain	respo Amer offere	ta overthrown by Fidel Castro. USA ed the import of Cuban sugar in onse to Castro's nationalisation of rican companies in Cuba. Khrushchev ed to buy the Cuban sugar and promised and military assistance.	The hard-line communist leader Antonin Novotny was unpopular, there was censorship of the press, lack of personal freedom, a weak economy. Some Czechs thought the USA would help the if they stood up to Moscow.			
		controlled by private owners for profit.	15	Summit Meetings:	18	Bay of Pigs 1961:	21	Prague Spring:		
4	Brain Drain	The departure of highly skilled people from a country	solution relations	Conference - May 1959 Although no to the ultimatum was found, s between Khrushchev and	2506) of top	CIA-trained Cuban exiles (La Brigada landed at the Bay of Pigs with the aim opling Castro. Castro's army fought back lefeated La Brigada. Castro declared he	1967 Czech students began protesting so Brezhnev (USSR leader) replaces Novotny with Alexander Dubcek. In April 1968 Dubcek announced an action plan to deliver 'Socialism with a Human Face' which meant			
5	Summit	A meeting between people who are interested in the same subject.	Eisenhower improved Camp David Summit - September 1959. leaders met and got on, the ultimatum on Berlin was withdrawn by Khrushchev.			David Summit - September 1959. s met and got on, the ultimatum on ballistic missiles in Cuba which U2 spy plane				
6	La Brigada	The 1500 Cuban exiles		mmit May 1960 13 days before an n U2 spy plane shot down- US	19	13 Days 16 th -28 th October 1962:	22	Brezhnev's reaction:		
	2506	trained by the CIA to invade Cuba.		ssed and shown to have lied, tension		6 th -21 st Oct US spy plane photographs eveal Soviet IRBM missiles on Cuba. JFK	and the	's closer relations with West Germany anti-communist protests concerned		
7	Bay of Pigs	An inlet on the southern coast of Cuba	Vienna S	Summit June 1961- Khrushchev	co	onvenes ExCom to discuss response ptions including invasion and airstrikes.	Nso, fellow Eastern bloc leaders possible withdrawal from Warsaw			
8	CIA	Central Intelligence Agency – the US agency responsible for intelligence-gathering	thinks he can bully new American president Kennedy so reissues ultimatum but Kennedy refuses and increases defence spending.			2 nd Oct JFK imposes naval blockade round Cuba to stop Soviet ships carrying uclear missiles from reaching Cuba.	pact and how it could encourage unrest in their own countries. Warsaw Pact agrees to Soviet-led invasion with 500,00 troops to regain control.			
9	Sphere of influence	A region over which one country largely has control or influence	East Ger zone of	Berlin Wall 1961: ugust 1961, the Soviet authorities in many sealed off East Berlin – their occupation - by constructing a huge	• 24 sh	3 rd Oct- Khrushchev says he Soviet ships ill force their way through the blockade 4 th Oct- despite the tough talk 20 Soviet hips turn back 6 th Oct Khrushchev sends telegram	which is the righ commu	ev announces the 'Brezhnev Doctrine' s a policy which stated the USSR had at to intervene in places where anism was threatened. hoslovakia USSR appoint Husak to		
10	Quarantine	US navy ships to prevent Soviet ships carrying military equipment to Cuba.	barbed wire barrier. This was soon replaced by a concrete wall, complete with lookout towers and armed guards who had orders to shoot anyone trying to cross into the Western sector. In response there is an 18 hour stand off between US and Soviet tanks at Checkpoint Charlie and in 1963 JFK visits Berlin and made a famous speech to 200,000 West Berliners		promising to remove launch sites if US agrees to lift blockade and promises not to invade Cuba. This was soon replaced promising to remove launch sites if US agrees to lift blockade and promises not to invade Cuba. 28th Khrushchev publicly agrees to					
11	Brinkman- ship	To push a situation to the point of disaster without quite going over the edge.			• <u>Co</u>	emove missiles on Cuba while JFK ecretly agrees to remove Turkey missiles onsequences- JFK looked strong as he's cood up to Khrushchev, eventually led to	Palach sets himself on fire in protest. The USA publicly criticizes the events but no military assistance due to Vietnam war. Brezhnev gains greater control of the satellite states with his 'Brezhnev Doctrine'.			
12	ICBM/IRBM	Missiles		he stated that Berlin was a symbol		ownfall of Khrushchev. New co- peration between US and USSR with		unist parties in Western Europe		
13	ExCom:	A group of 12 expert advisers created by JFK and led by his brother Robert.	commur Howeve	om and the struggle against hism. (Ich bin ein Berliner speech) r in private it did decrease tension as 'a wall is better than a war'	19 Tr	1963 Test Ban Treaty, 1967 Outer Space Treaty, 1968 Nuclear Non Proliferation Treaty and SALT talks and hotline between White House and Kremlin.	themse Yugosla	I disapproval by distancing lives from Communist Party of USSR. Iv and Romanian governments ed and began to foster closer links iina.		

Year 10 GCSE History Autumn Term Knowledge Organiser The Origins of the Cold War 1941-58 Key Vocabulary: The situation at the end of WW2 Tension in Germany and Hungary

20

The Berlin Crisis 1947-9

1	Grand	The alliance between the US, USSR and	17 The conferences:	1945 Division of Germany and Berlin: At Potsdam the Allies
	Alliance	UK that defeated Nazi Germany in WW2	The Tehran Conference- Nov 1943	agreed to divide Germany and its capital, Berlin, into four
			GB and USA agree to open up a second front by	zones – American, British, French and Soviet.
2	D-Day	The Allied invasion of north-western	invading France in summer 1944 and USSR to attack	Differences quickly emerged over how to run Germany.
		France in June 1944	Japan once Germany defeated	1947 Creation of Bizonia: In January 1947 the British and
3	UN	An international organisation set up to	• UN to be set up after war	American zones were merged together to create the
4	D	preserve world peace	The Yalta Conference- Feb 1945	'Bizone' – the French zone joined the following year
4	Reparation s	Compensation for damage caused during the war	 Germany and Berlin would be divided into four zones Eastern Europe would be a Soviet 'sphere of 	(Trizonia) and in 1948 they introduced a new currency the Deutsche Mark
5	Red Army	The army of the Soviet Union	influence'.	1948 The Berlin Blockade: In response the USSR introduced
3	Red Allily	The army of the soviet official	BUT – disagreement on amount of reparations	its own currency – the Ostmark – to the Soviet Zone and cut
6	Buffer Zone	Stalin wanted to control Eastern Europe	The Potsdam Conference- Aug 1945	off road, rail and canal traffic in an attempt to starve West
		so it would protect the USSR from future	Confirmed decision to divide Germany and Berlin	Berlin.
_		invasion	Germany to be demilitarised, democratised, de-	1948-9 The Berlin Airlift: The Allies used the three air
7	Salami	The methods used by Stalin to establish	Nazified and Germany to pay reparations to Allies –	corridors to airlift supplies (4600 tons of supplies a day on
	Tactics	communist control in Eastern Europe (eg: rigged elections, crushing opposition)	most of which to go to USSR.BUT – disagreement on how harshly Germany would	average) to West Berlin over the following ten months. In May 1949 Stalin backed down.
8	Iron Curtain		be punished, and on free elections in Eastern Europe.	Consequences/Importance:
٥	II OII Curtaiii	A metaphor for the line that divided Europe between the democratic west and	18 Reasons for tension after WW2:	First direct confrontation between the USA and USSR
		communist east	1944-48 Creation of satellite states (e.g. Poland and	Confirmed impossible to cooperate over Germany
9	Containme	The US policy which aimed to stop the	Hungary) as Stalin wants a buffer zone in Eastern	 West Germany (FDR) formed in late May 1949, East
	nt	spread of communism	Europe. Use of salami tactics to take over 'slice by slice'	Germany (GDR) formed in Oct
10	Doutscho	The Cormon surrencies that replaced the	 1946 Long and Novikov Telegrams- US diplomat 	Formation of NATO – US commitment to defence of
10	Deutsche Mark &	The German currencies that replaced the Reichsmark in 1948	Kennan recommended firm action against USSR and	western Europe, first military alliance Hungarian Uprising 1956
	Ostmark	Referisition III 1545	Novikov accused the USA of seeking world domination. • 1946 Iron Curtain Speech- Church gave a speech saying	Hungarian Uprising 1956 1953- Death of Stalin- People were unhappy with the leader
11	NATO	The North Atlantic Treaty Organisation is	a iron curtain now divided Europe	of Hungary (Matyas Rakosi- nicknamed the Bald Butcher)
		an alliance of democratic countries who	Arms Race	who was a Stalinist. Economic failure and terror in Hungary
		agree to defend each other against attack	19 Truman Doctrine and consequences:	1956- Imre Nagy becomes leader of Hungary Nagy proposes
			1947 Truman Doctrine- Began the policy of	reforms to economy, freedom of press, freedom of speech
12	De-	Elimination of the influence of Stalin.	containment (stopping the spread of communism) by	and withdrawal from Warsaw pact. Student anti-communist
	Stalinisatio		using US influences and resources. Now means that US	protests.
12	n Camananaia		will continue to be active in Europe after WW2,	Nov 1956- Soviet invasion restores control- Khrushchev orders 200,000 Warsaw Pact troops to retake control of
13	Communis m	a type of government where all property is owned by the community and each	increases tensions.	Hungary. USSR appoints Janos Kadar to replace Nagy who is
	111	person contributes and receives	• 1948 Marshall Aid- to achieve the policy of containment	imprisoned and executed.
		according to their ability and needs.	gave economic aid (\$12 billion) to help European countries. Stalin referred to it as 'Dollar Imperialism'	<u>Consequences/Importance</u>
14	Nuclear	Highly destructive explosive device that	1947 Cominform- Communist Information Bureau-	Khrushchev appears strong and fully gains control of the
	weapon:	gets it power from nuclear reactions.	response to Truman Doctrine, gave Stalin greater	satellite states
15	H-bomb	Hydrogen bomb- an even more powerful	control over communist countries.	While the US government publicly criticizes the USSR and raises aid manay for refugees there is no military.
13	501115	type of nuclear weapon	1949 Comecon- Allows Stalin to control Eastern	and raises aid money for refugees there is no military intervention despite it's declaration to roll back
16	Arms Race	A competition between two countries to	European economies and take their resources- a	communism
		have the most powerful weapons	response to Marshall Aid.	20,000 Hungarians killed

Year 10 Hospitality and Catering

Autumn Term Knowledge Organiser - The Importance of Nutrition

Key Vocabulary:		Nutrition at different life stages			Special dietary needs			
			13 Adults					
1	Amino acid	The basic component of all proteins.	Early	Growth in regard to height of the body continues to develop until 21 years of age.			energy the body needs is determined by ation, age and activity level.	
2	High biological	A protein that contains all of the essential amino acids.		Therefore, all micro-nutrients and macro- nutrients especially carbohydrates, protein,	15		Medical conditions	
2	value (HBV) protein			fats, vitamins, calcium and iron are needed for strength, to avoid diseases and to	Aller	gens	Examples of food allergies include milk, eggs, nuts and seafood.	
3	Low biological value (LBV)	A protein that lacks one or more of the essential amino acids.		maintain being healthy.	Lacto	se	Unable to digest lactose which is mainly	
	protein		Middle	The metabolic rate starts to slow down at this stage, and it is very easy to gain weight	intole	erance	found in milk and dairy products.	
4	Sugary foods	Foods high in sugar, such as jam, cakes, biscuits and ice cream.		if the energy intake is unbalanced and there isn't enough physical activity.	Glute	n erance	Follows a gluten free diet and eats alternatives to food containing wheat,	
_	o		Elderly	The body's systems start to slow down with age and a risk of blood pressure can	intoic	. runce	barley and rye.	
5	Starchy foods	Foods high in starch, such as pasta, rice, potatoes and bread.		increase as well as decrease in appetite, vision and long-term memory. Because of		etes (type	High level of glucose in the blood,	
6	Fat-soluble	Vitamins that dissolve in fat;		this, it is essential to keep the body strong and free from disease by continuing to eat	21		therefore changes include reducing the amount of fat, salt and sugar in the diet.	
U	vitamins	these are vitamins A and D.		a healthy, balanced diet.	Cardi	ovascular	Needing a balanced, healthy diet with low	
7	Dietary fibre	A type of carbohydrate found in		2.11.	disor	der	levels of salt, sugar and fat.	
	,	the cell walls of vegetables, fruits, pulses and cereal grains. It	14	Children	Iron o	deficiency	Needing to eat more dark green leafy vegetables, fortified cereals and dried fruit.	
		is also known as non-starch	Babies	All nutrients are essential and important in babies, especially protein as growth and			vegetables, fortified cereals and affect frait.	
8	Immune system	polysaccharide (NSP). The processes of the body that		development of the body is very quick at				
		protect against disease.		this stage. Vitamins and minerals are also important. You should try to limit the	16		Dietary requirements	
9	Fortified cereals	Cereals with added vitamins and	Toddlers	amount of salt and free sugars in the diet. All nutrients remain very important in the	Religi belief		Different religions have different dietary requirements.	
		minerals.	Toddicis	diet at this stage as growth remains. A			·	
10	Haemoglobin	Part of the red blood cell that		variety of foods are needed for toddlers to have all the micro-nutrients and macro-	vege	tarian	Avoids eating meats and fish but does eat dairy products and protein alternatives such	
		carries oxygen around the body.	Teenagers	nutrients the body needs to develop. The body grows at a fast pace at different			as Quorn and tofu.	
11	High blood pressure	A higher than normal force of blood pushing against the	reenagers	times at this stage as the body develops	Vega		Avoids all animal foods and products but can eat all plant-based foods and protein	
	pressure	arteries.		from a child to an adult, therefore all nutrients are essential within proportions.			alternatives such as tofu and tempeh.	
12	Constipation	A condition where emptying the bowels is difficult.		Girls start their menstruation which can sometimes lead to anaemia due to not		ntarian	Follows a vegetarian diet but does eat fish products and seafood.	
				having enough iron in the body.			products and scalood.	

Autumn Term Year 10 Music Component 1 Early pop music Knowledge Organiser

Key Vocabulary:			Learning Aim A	
1	Harmony	The chards or assemble import	12 Blues	15 The early 1960's
1	Harmony	The chords or accompaniment supporting the melody	 The Blues originated on Southern plantations in the 19th Century Key features: 12-bar blues, walking bass line, melody, 	 Rock and Roll was gradually overtaken by Pop-rock The 1960's were a time of upheaval in society, fashion, attitudes and music
2	Sonic Features	The parts of the music (melody/rhythm) that make the piece able to be identified as a certain style	 chords, call and response, tempo, repetition Instruments: early Blues was mainly vocals and guitar, later the: double bass, piano, trumpet and saxophone Playing techniques: improvisation, bending/sliding guitar, muting trumpet 	 Key Features: verse, chorus, fusion, multi-tracking, chord sequence, major, minor hook Instruments: guitar, bass guitar, drum kit, piano Playing techniques: guitar licks, fills, simple melodies, rhythmic guitar work, standard song form, acapella
3	Texture	How the parts of the music fit together	 Famous artists: Bessie Smith, Robert Johnson, Muddy Waters, BB King Associated genres: Jazz, Swing, Ragtime, Country, Gospel 	 Famous artists: The Beatles, The beach boys, The Kinks, The Supremes, Marvin Gaye 60's genres: Rock, Funk, Soul, Motown, R&B, Ska, Folk
4	Practice	The method to learn	13 Rock and Roll	16 The end of the 1960's
		something new – includes playing short chunks, repeating parts, playing slowly	1950'sInfluences: Blues, Jazz, Gospel, Country	 In the late 60's outdoor rock festivals began and psychedelic music reflected the growing hippie culture Television became a major force in rock music, attracting
5	DAW	Use of computer interfacing software – loops and samples	 Key features: backbeat rhythm, boogie woogie Instruments: Saxophone, piano, lead and rhythm electric guitars, double bass, drum kit 	 younger audiences Key features: riff, 7th Chords, bass line, lyrics Instruments: guitar, bass guitar, drum kit, piano,
6	Blues	Music from the USA plantations	 Technological advances: microphone, amplifier, use of distortion Famous artists: Elvis Presley, Buddy Holly, Chuck Berry, 	 synthesizer Famous artists: The Who, The Rolling Stones, Cher, The Monkees, Tom Jones
7	Improvisation	To make up a melody or rhythm on the spot to fit with a	Bill Haley, Little Richard Rack n Roll styles: Rockability, doo wop	Rock subgenres: Pop rock, Psychedelic rock, Progressive rock, Blues rock
		set bass line	14 Bessie Smith 1894 - 1937	 The Beatles 1960 - 1970 The Beatles were an English rock band formed in
8	Guitar techniques	Sliding/bending – bending the string inwards to change the pitch and sliding from note to note	 Bessie Smith was an American Blues singer widely renowned during the Jazz age. Nicknamed the "Empress of Blues" she was the most popular female Blues singer of 	Liverpool in 1960. There were four members – John Lennon (guitar and vocals), Paul McCartney (Bass and vocals), George Harrison (lead guitar) and Ringo Starr
9	Distortion	A feature of the guitar amplifier – makes the sound crunchy	 the 1920's and 1930's. In 1923 she made her first recordings and singed for Columbia records. Her song Downhearted Blues sold approximately 800,000 copies The songs Bessie sang were of the classical blues themes: 	 (drums) In 1961 they signed with EMI. The music was influenced by Rock and Roll, Classical music, Indian traditional music and Psychedelia Their first single was a huge success in the UK and started
10	7 th Chords	Block chords with a 7 th note added – ie CEGB	poverty, oppression and love lost • She collaborated with many artists such as, Louis Armstrong	 "Beatlemania". They appeared on TV in the USA to an audience of over 70 million. They also pioneered the use of technology using: sound effects, tape loops, double tracking, van-speed recording
11	Acapella	Unaccompanied singing		and unusual microphone placements They recorded: 130 songs, had 17 number 1's

Autumn Term Year 10 Music Component 1 Examples of assessment

Music for Film

The Delta Blues

Key Vocabulary:

1	Harmony	The chords or accompaniment	12	Style and facts	1	4 Style and Facts
_		supporting the melody		or, o and rucco	1.	Style and Facts
			•	Music for media has gained popularity during the last	De	elta Blues is one of the earliest-known styles of Blues
2	Sonic Features	The parts of the music		century, with music becoming an integral part of film, TV		usic.
		(melody/rhythm) that make the		and video games.		
		piece able to be identified as a	•	From the early 1900s, music has been used in various	It	originated in the Mississippi Delta in the USA
		certain style		sources of media to accompany the on-screen action,	Sc	ome of the earliest Delta Blues recordings date back to the
3	Leitmotif	a short musical idea that		create atmosphere and establish mood.		te 1920s (though it was likely being played before the turn
3	Ecitinotii	represents a particular location/				the century), when record companies realised the
		character	•	Music for media is composed with the intention of enhancing a product or production. It is not written	po	otential African-American market for 'race' records.
4	Motif	a short musical idea		specifically for direct sale to the public, which is where it	Th	ne Delta Blues 'sound' is predominantly a single performer
				differs from commercial music.		ith vocals and acoustic guitar but live performances
						clude an upright bass and drums
5	Theme tune	memorable piece of music that				
		represents a TV series, film,	13	1	1.	
		video game.		Interstellar – the Cornfield = Hans Zimmer		Crossroads – Robert Johnson
6	Conjunct	a melody built upon notes that	•	The piece is in the minimalism style	•	The lyrics follow the typical delta blues AAB structure
	22.,,000	are close together				over the traditional 12-bar blues.
			•	There is a prominent disjunct motif melody heard throughout, performed using 'bell chimes'		
7	Disjunct	a melody built upon notes that		percussion.	•	The song has a homophonic texture (melody and guitar accompaniment).
		are far apart		·		accompaniments.
	B:		•	The original motif is exposed at the beginning and	•	The guitar rhythm is a typical blues shuffle in F major, in
8	Diegetic	music & sounds that are part of the production that are heard by		there are variations to this melody throughout the		which 8 th note triplets are performed for an authentic
		the characters		piece.		delta blues groove.
9	Non-diegetic	music & sounds only heard by	•	There are time signature changes throughout, with a	•	Power chords are used in the main guitar harmony.
		the audience		mix of regular and irregular beats per measure e.g.		. one. cheras are asea in the main garda nationly.
				3/4 to 5/8.	•	The F blues scale is used to perform the guitar riffs heard
			•	The tonality is a major key		in this song.
10	Stop time	when a few notes/ chords are		, , ,		The song also contains typical blues riffs of descending
		played that are separated by	•	The melodies become more complex as the piece		semitones in the guitar melody/ 7 th chords- this is
		silence		develops		known as a chromatic run.
			•	There is a dynamic 'crescendo' throughout		
11	12-bar Blues	a song structure built on twelve			•	The guitar melody uses hammer-ons to decorate
		bars of music that uses chords I, IV and V.	•	There is a tempo 'accelerando', going from moderato		(ornamentation) the guitar melody.
		iv allu v.		to presto		

Autumn Term Year 10 Music Component 1 Later pop music

Disco

16

Styles and Facts

12

Key Vocabulary:

-	<u>*</u>				
2	Harmony Sonic Features Reverb	The chords or accompaniment supporting the melody The parts of the music (melody/rhythm) that make the piece able to be identified as a certain style The use of reverb to create an	 Disco is a genre of dance music from the US Key features: four-on-the-floor, syncopated, bassline, octave, major 7th, minor 7th, chords Instruments: strings, horns, electric piano, synthesizers, electric rhythm guitars, electric drums Playing/vocal techniques: falsetto, reverb Famous artists: The Bee Gees, Donna Summer, Gloria Gaynor Associated genres: EDM, House music, Hip Hop 	Large Orchestra Increased use of chromatics and complex harmony Programme music – tells a story Song like melodies Use of recurring	Use of motif/theme to represent characters/places/ideas Variation in music t show progression/developm ent of the plot Music that sets the
3	Neverb	echo effect to the instruments	13 Rock	themes and leitmotifs Great technical virtuosity	scene Time and place Conveys moods
4	Palm muting	Using the palm of the hand to stop the strings of the guitar vibrating loudly	 One of the first events of the 1970's was The Beatles breaking up. Heavy metal became popular. Key features: syncopated, syllabic, riff, timbre, verse, chorus, bridge, repetition Instruments: guitar, vocals, drum kit, keyboard 	Increased use of the piano Tchaikovsky Brahms	Adds drama Transitions scenes John Williams Hans Zimmer
5	Falsetto	A man singing in a very pitch	 Playing/vocal techniques: distorted guitar, feedback, reverb, palm muting Famous artists: Queen, Led Zepplin, Rainbow 	Verdi Chopin	Danny Elfman Enrico Morricone
6	Disco	A form of dance music – involving strutting and pointing	Sub-genres: Hard rock, Glam rock, Progressive rock, Punk rock, Heavy metal 14 1980's	17 Style Rock and Roll	es and facts Minimalism
7	Rock	A genre of music known for its use of guitars and drums	Synthesizer (synth) pop started with the evolution of electronic music technology	Fast tempo Based on the 12-bar	Layers of ostinato Constantly repeated
8	Monophonic	One line of music at a time – or all parts playing the same thing	 Key features: Monophonic, texture, 4/4 time, simple harmony Instruments: synthesizers, drum machines, sequencers 	 Improvised solos Instruments: vocals, hacking years algoritic 	patterns that are gradually changed Layered textures
9	Overdrive	A guitar feature changing the sound of the guitar	 Playing/vocal techniques: robotic sounding vocals Famous artists: Depeche Mode, Eurythmics, Soft Cell Associated genres: House Techno 1990's 	backing vocals, electric guitars, double bass, drums, piano, harmonica, saxophone and other brass	 Interlocking repeated phrases and rhythms Diatonic harmony Additive/subtractive patterns
				and other brass	patterns
10	Over dubbing Feedback	Recording multiple layers of the same instrument High pitched squeak sound	 Britpop was a UK based music. It produced brighter and catchier alternative rock into mainstream music Key features: vocals, electric guitar, electric bass, acoustic guitar, drums, piano, strings Playing/vocal techniques: live playing, clean guitar, 	, ,	· ·
	Ü	the same instrument	 catchier alternative rock into mainstream music Key features: vocals, electric guitar, electric bass, acoustic guitar, drums, piano, strings 	 and other brass Use of major keys and the blues scale Strong back beat on 2 and 4 Walking bassline 	patterns

KS4 Physical Education Autumn Knowledge Organiser

Key Vocabulary:				
1	Cholesterol	High cholesterol = too much of a fatty substance called cholesterol in your blood. Caused by eating fatty food, not exercising enough, being overweight, smoking and drinking alcohol	Well being – a combination of physical, emotional and social health. Positives effects of training/exercise on: Physical health	9 Career Opportunities Sports coach Plan fun, engaging safe coaching sessions (can be sport specific). Give feedback on performance, how to improve and motivate and inspire. Design advanced programmes for elite sportspersons, support performers at events and competitions
2	Obese	weighing significantly more than expected. 30 BMI and above	 Stronger bones (increased bone density) Lower cholesterol / reduced obesity Increase/development of components of fitness Increase life expectancy 	https://nationalcareers.service.gov.uk/job- profiles/sports-coach Sports Commentator Research facts on performers, describe action as it
3	Over exertion	Overexertion can occur when you push yourself too hard physically and mentally	Emotional health • To increase self esteem/confidence – increased endorphins released	happens, give updates on results and highlights. Take direction from the show's producer, interview sports professionals live or for recorded clips, provide online social media content https://nationalcareers.service.gov.uk/job-profiles/sports-commentator
4	Self esteem	how we value and perceive ourselves. It's based on our opinions and beliefs about ourselves, which can feel difficult to change.	 Reduced risk of age-related diseases - dementia Relieve stress and tension Fun/enjoyment / reduced boredom 	Performance Sports Scientist Analyse training and competition data to identify areas for improvement, design development plans to improve individual and team performance. Help people improve
5	nutritionist	A nutritionist is a person whose job is to give advice on what you should eat to remain healthy.	Social health To develop teamwork skill To meet new people/friends Develop communication skills	their health through exercise and fitness, advise on the design and manufacture of sports equipment https://nationalcareers.service.gov.uk/job-profiles/sports-scientist School Values
6	analyst	someone whose job is to study or examine something in detail	 Develop leadership skills Negative effects of training on: Physical health – overexertion leading to heart failure / overuse injuries 	RESPECT – understand every choices will be different to ours
7	Therapist	treats a particular type of mental or physical illness or disability, usually with a particular type of therapy. Speech therapist, Art Therapist, physiotherapist.	 Emotional health – training can lead to injury and cause depression Social health – training long hours means less time spent with family. 	RESILIENCE – Positivity- try something new – get a now hobby ASPIRATION – build your self esteem – help others to improve yourself

Year 10 Drama Autumn Term Knowledge Organiser

Key Vocabulary:			Component 1- Learning Aim A Professional performance material, influences and creative purpose	Component 1 – Learning Aim B Demonstrating understanding of		
1	Stage Levels	To show power, status or just different locations for the scenes.	8 A1 Styles of performance:	skills, techniques and approaches used by professionals to create a performance		
2	Genre	Comedy, Thriller, Melo drama	Realism – Konstantin Stanislavski: The System; These are the 7 Stanislavski techniques;	10 B1 Processes used in		
3	Creative Intentions	What was the director/ writer/ creator thinking about? Themes / issues / response to stimulus / style/genre / contextual influences / collaboration with other practitioners / influences by other practitioners.	Who am I? imagination Where am I? What time is it? What do I want? Why do I want it? How will I get what I want? What must I overcome to get what I want?	rehearsal Responding to a stimulus Exploring and developing ideas Sharing ideas and intentions Teaching material to performers Refining and adjusting material		
4	Purpose	Why was it made? to educate / to inform / to entertain to provoke/ to challenge viewpoints / to raise awareness / to celebrate	Epic Theatre – Bertolt Brecht Brecht's epic theatre was when the audience was persuaded—by staging methods and naturalistic acting—to believe that the action onstage was "real"	11 B2 Production process		
5	Theme	The topic of the performance e.g. Conflict, Family	Roles and Responsibilities ACTOR: The role of the actor is to learn their character in depth and become the character as they perform. In Billy Elliot, this is shown as the actors feel like they are	Rehearsal – Practising your work Praduction – Houstboard		
6	Stylistic Qualities	How a performance is structured – Musical, Inclusivity, Epic theatre - storytelling	the characters and are able to portray them and their emotions well. They are responsible for attending casting calls and auditions, as well as following a rehearsal schedule. They also need to learn their character in depth, through research and	 Production – How the set, costume, staging comes together. Technical Rehearsal – Lighting and sound 		
7	Processes used in development, rehearsal and performance	Responding to stimulus to generate ideas for performance material / exploring and developing ideas to develop material / discussion with performers / setting tasks for performers / sharing ideas and intentions / teaching material to performers / developing performance material / organising and running rehearsals / refining and adjusting material to make improvements / providing notes and/or feedback on improvements.	improvisation. They also need to be aware of their character's relationships with others to ensure effective acting. Also, they should be able to take opportunities that may not be appealing so they can get experience. DIRECTOR: The role of the director is to oversee the creative process and the overall vision of the performance. They need a thorough understanding of the script therefore, need to carry out extensive research. They need to supervise all creative aspects of the performance and make changes, if necessary, that may be critical to the performance. They are responsible for the full creative process therefore are required to arrange and attend casting calls and auditions, as well as organise the rehearsal schedule, where full staging and blocking takes place. A directors responsibility is to select the best choice of actors for the roles and cleverly consider the abilities of each individual. They also need to direct the actors during rehearsal or filming. They need to communicate effectively with the production team to ensure the whole performance is effective.	 Performance – Final presentation of ideas to a target audience Post performance evaluation/review – How well did we do? What could be improved? How do we know? 		

Year 10 GCSE Religious Studies Autumn Term Knowledge Organiser: Christian Beliefs

Key Vocabulary:			Key Christian Beliefs	Key Christian Beliefs			
1	Benevolence	God is wholly good and His love is without condition or limit	The nature of God Christians believe that God is omnipotent, benevolent and just. These attributes are supported by different Christian teachings such as the story of Noah and the Flood, and the	6 Resurrection Three days after Jesus' crucifixion, he resurrected. Christians believe that as Jesus was God incarnate, he defeated death and resurrected. His disciples did not recognise his			
2	Omnipotence	God is wholly powerful and His power is without condition or limit.	trials of Job. Christians also believe that God is one, indivisible being but that the Three Persons of the Trinity represent His different roles as Father, Son and Holy Spirit. 2 Beliefs about creation	resurrected form and some doubted his return. 7			
3	Just Trinity	God is fair. He rewards and punishes us as we deserve. God is one, indivisible	Some Christians believe that the Genesis creation story is literally true. They are called Creationists. Other Christians believe the story is metaphorical, and is meant to teach us about God's omnipotence. Christians also believe that Jesus	important wisdom, Jesus finally ascended (went up) to Heaven to be 'at the right hand of God'. Before the ascension, Christians believe Jesus breathed the Holy Spirit into his disciples, which continues to inspire Christians today.			
4	Timity	being. There are the Three	was present at the creation of the world, as mentioned in John 1:1-3.	8 Sin			
		Persons of the Trinity:	3 Christian Beliefs about the afterlife	Different Christian denominations have different ideas about sin. Some, like Catholics, believe that we are all born with			
5	Creationism	Father, Son and Holy Spirit. A Christian approach that teaches that God literally created the world in 6 days.	Christianity teaches that there is life after death, and that through Jesus' sacrifice on the cross, we may experience resurrection. Some Christians, like Catholics, believe that we must work off our sins first in purgatory, whereas other Christians believe that everybody can go to Heaven.	original sin which is inherited from Adam and Eve. This sin is cleansed through infant baptism. Others believe that we will all sin, but that God is benevolent and so chooses to forgive our sins.			
6	Resurrection	Jesus rose from the dead. Christians believe we will all be raised from the dead	Christians also believe that those who sin, or go against God, are punished in Hell which is a place of torment and separation from God.	9 Salvation Christians believe that we have been saved from the consequences of sin through Jesus' crucifixion. There are different models of salvation:			
7	Ascension	for an eternal afterlife. 40 days after the resurrection, Jesus ascended (went up to) Heaven to be reunited with God.	Jesus is 'God made flesh'. The doctrine of the incarnation teaches that Jesus is both 100% human and 100% divine. This concept is called hypostatic union and explains how Jesus, who was born to a human mother and lived a human life, was able to perform miracles, resurrect and ascend to Heaven.	 Salvation Through Law – this is the idea that we are able to avoid sin and achieve heaven by following the rules and laws laid out by God in the Bible. Salvation Through Grace – this is the idea that as God is so benevolent, He has decided that humans can achieve salvation simply through His command. Salvation Through Spirit – this is the idea that as the 			
8	Incarnation	The idea that Jesus is God made flesh.	Crucifixion Christian doctrine is that Jesus was betrayed by Judas and handed over to the Jewish and Roman authorities who sentenced him to death. The crucifixion took place at	disciples breathed the Holy Spirit into Christians, we are all able to access the messages and teachings of God, follow these, and access heaven.			
9	Salvation	Saving of the soul and being able to enter eternal life in heaven.	Golgotha, the Place of the Skull, and concluded with Jesus dying on the cross. Christians believe that Jesus was both human and divine, and so felt all the physical and mental pain of the crucifixion. His death allowed humanity to be cleansed of original sin and means that all Christians can now share in resurrection and life after death.	When Adam and Eve sinned against God, it created a schism, or split, between God and mankind. God never intended to separate Himself from us and so sent Jesus to repair this relationship. The idea that God and man are brought back together as one is called atonement.			

Year 10 GCSE Religious Studies Autumn Term Knowledge Organiser: Christian Practices

Key Vocabulary:			Key Christian Practices	Key Christian Practices		
1	Liturgical	A church service which follows a set structure or ritual.	1 Different forms of worship There are no rules in Christianity about how or when to worship, and many different denominations choose to worship in different ways. Liturgical worship follows	5 Role of the Church in the local community Christians believe it is their duty to 'love your neighbour'. This means that many Churches are involved in supporting the local community. Organisations like the Trussell Trust		
2	Non-liturgical	A service which does not follow a set text or ritual; sometimes spontaneous or charismatic	set structures, and includes worship like saying the Lord's Prayer or taking part in the Eucharist. Non-liturgical worship is often private and spontaneous.	help run food banks for people experiencing financial difficulty, and street pastors go onto the streets at night to support people who might need it. 6 Place of Mission and Evangelism		
3	Sacrament	The outward and visible sign of an invisible and spiritual grace. (e.g. Baptism and the Eucharist are recognised as sacraments by most Christians).	 Role and Meaning of Sacraments There are two main sacraments: Baptism. This is when people join the church. Some Christians think this should happen as a baby, called infant baptism, so you can be raised 	Jesus told his disciples to spread the message he had shared with them, and many Christians believe it is their duty to continue sharing the message. Evangelising, or preaching the message of God, is important to lots of denominations as they believe that only Christians can go		
4	Baptism	The sacrament through which people become members of the Church. It involves the use of water as a symbol of the washing away of sin.	as a Christian. Others think it should happen when you are old enough to understand, this is called Believers' Baptism. 2) Eucharist. This takes lots of different forms but is	to Heaven, so everybody needs to hear the message of the gospel. 7		
5	Eucharist	Literally 'thanksgiving'; a sacrament in which the death and resurrection of Jesus are celebrated, using bread and wine.	sacrifice and death through consuming bread and wine. 3 Role and Importance of Pilgrimage Christians do not have to go on a pilgrimage, but many	people back together. The Corrymeela Community is a Christian organisation that works in Northern Ireland, and did lots of work to bring Catholic and Protestant communities back together after the Troubles.		
6	Pilgrimage	A religious journey to a holy	think it is a good way of getting closer to God and even	8 How churches respond to persecution		
Ü	Приниде	site/sacred place, it is an act of worship and devotion.	to access miracles. Catholic Christians believe that sites like Lourdes carry spiritual significance because of events that have happened there, and believe that	Christians are the most persecuted religious group worldwide. Persecution is when people are treated badly, and in some cases even killed, for practising their faith. Many Christian groups have been set up to support Christians facing persecution. They do this by providing Bibles and resources to underground churches, offering loans and financial support to people facing persecution		
7	Street Pastors	A Christian organisation involving people working, mainly at night, on city streets giving care to those who need it	visiting can help cure people of illnesses. Others believe sites like Iona in Scotland are important because they allow us to feel closer to God and deepen our understanding of religion.			
8	Evangelism	Preaching the gospel (the good	4 Role and Importance of Festivals	and by working with those who have escaped persecution to support with their futures.		
		news about God) to convert people to the Christian faith.	 Christians celebrate two major festivals: Christmas. This is the celebration of Jesus' birth and reminds Christians of the doctrine of the incarnation. Christmas is preceded by the 4 weeks of Advent. Easter. This is the celebration of Jesus' crucifixion and resurrection. Easter is preceded by the 6 weeks of Lent. 	9 The work of Christian charities We will look at the work of CAFOD (Catholic Agency for Overseas Development), Christian Aid and Tearfund. These		
9	Reconciliation	Making up and rebuilding relationships between two groups/sides after disagreement.		organisations work to support people around the world who are facing poverty, persecution, discrimination and other hardships. They include programmes that support with development, such as education and skills training, as well as charitable donations and financial support.		

Year 10 Spanish Autumn Term Knowledge Organiser - La Familia / Family 2. Un buen amigo / A good friend 6. Model Text:

1

Me llamo María y tengo

quince años.

My name is Maria and I am 15.

Un buen amigo es alguien que... - a good friend is someone who...

te apoya – supports you

1. Los miembros de la familia / Family members

hermanastro/a – stepbrother/sister

padrastro – stepdad

madrastra - stepmum

		te escucha – listens to you				
primo – cousin (m) bisabuelo – great-grandad sobrino – nephew	prima – cousin (f) bisabuela – great-nan sobrina – niece	te conoce bien – knows you well te acepta como eres– accepts you as you are te quiere mucho – loves you a lot te da consejos – gives you advice te hace reír – makes you laugh Pienso que soy un buen amigo/una buena amiga porque I think I am a good friend because		2	Tengo el pelo <u>largo</u> y <u>rubio</u> y no soy ni <u>alto</u> ni <u>bajo</u> .	I have <u>long blond</u> hair and I'm neither <u>tall</u> nor <u>short</u> .
hijo – son h	ija – daughter nieta – granddaughter novia - girlfriend mujer – wife			3	Si tuviera la opción, quisiera tener <u>un tatuaje</u> pero lo haré cuando sea mayor.	If I had the option I would like to have a tattoo but I will do it when I'm older.
3. Descripción física / Physical	description			4	En mi familia somos cinco .	In my family there are five people.
Soy – I am Es – he/she is Son – they are	oy – I amcalvo – baldalto – tallbajo – shorts – he/she isgordo – fatdelgado - slim					irmy running there are <u>inve</u> people.
Tengo – I have Tiene – he/she has Tienen - they have	El pelo - hair r c r li c	azules – blue marrones – brown verdes - green moreno – dark brown rubio – blonde castaño – brown rojo – red rizado – curly	la piel blanca/morena – fair/dark skin los dientes prominentes – big teeth pecas – freckles Un tatuaje – a tattoo	5	En general diría que me llevo bien con <u>mis padres</u> aunque sean <u>estrictos</u> a veces.	In general I would say that I get on well with my <u>parents</u> even though they are <u>strict</u> sometimes.
Llevo – I wear/ have		liso – straight ondulado – wavy corto – short largo – long fino – fine de punta – spiky		6	Yo me parezco mucho a <u>mi</u> <u>madre</u> . Las dos tenemos el pelo <u>castaño</u> .	I look a lot like <u>my mum</u> . We both have <u>brown</u> hair.
Lleva – he/she wears/has Llevamos - we wear/have		gafas – glasses barba – a beard bigote – a moustache	a – a beard		También nos llevamos superbien ya que <u>tenemos</u> <u>mucho en común</u> y siempre <u>me apoya</u> .	Also, we get on really well because we have a lot in common and she always supports me.
4. Relaciones familiares / Fam Me llevo bien con I get on w Me divierto con I have fun Echo de menos a I miss	vell with	Me acepta(n) como soy – he/she	Me apoya(n) – he/she supports me Me acepta(n) como soy – he/she accepts me as I am Me hace(n) reír – he/she makes me laugh Me conoce(n) bien – he/she knows me well Nunca me critica(n) – he/she never criticises me Guarda(n) todos mis secretos – he/she keeps all my secrets Tenemos mucho en común – we have a lot in common Me da(n) consejos – he/she gives me advice Me dice(n) la verdad – he/she tells me the truth Me juzga(n) – he/she judges me Me trata(n) como un niño/una niña – he/she treats me like a child No me deja(n) salir – he/she doesn't let me go out No me da(n) libertad – he/she doesn't give me freedom Me critica(n) – he/she criticises me			
		Nunca me critica(n) – he/she ne Guarda(n) todos mis secretos – Tenemos mucho en común – we Me da(n) consejos – he/she give Me dice(n) la verdad – he/she te			Antes adoraba a mi hermana menor pero ahora la encuentro molesta y nunca guarda mis secretos.	Before I loved my <u>little sister</u> but now I find her <u>annoying</u> and <u>she</u> <u>never keeps my secrets</u> .
No me llevo bien con I don' Me peleo con I argue with Estoy harto de I am fed up o		Me trata(n) como un niño/una r No me deja(n) salir – he/she doe No me da(n) libertad – he/she d			Para mí un buen amigo debe ser comprensivo y creo que es importante que tengamos intereses en	For me a good friend should be understanding and I believe that it's important that we have common interests, for example
5. WOW!	haumana If only I best site	común, por ejemplo <u>la</u> música		music.		
Ojalá tuviera un hermano/una Nos peleamos como el perro y	· ·					
Somos uña y carne – we're ins Lo que más me gusta es (que). Lo que menos me gusta es (qu	eparable the thing I like the most is	10	Creo que soy una buen amiga ya que siempre apoyo	I believe that I am a good friend because I always <u>support</u> my		
Lo que menos me gusta es (qu	Cy the thing three the leas		a mis amigos y doy consejos buenos .	friends and <u>I give good advice</u> .		

with other people

el soul/el rap/ el dance/ el hip-hop/el pop/el rock/el jazz/

La guitarra – the guitar la trompeta – the trumpet

Mi grupo favorito es... - my favourite band is...

me ayuda a olvidarme de todo – it helps me to forget everything

necesito comunicarme con otra gente – I need to have contact

me aburre como una ostra – it bores me to death

no me interesa - it doesn't interest me

el piano – the piano

la flauta - the flute

correr - to run

entrenar - to train

marcar un gol - to score a goal

participar - to participate un partido - a match

la temporada – the season

baile - dance

escalada – climbing

dado que -

la música clásica/electrónica

la música de... - ...'s music

El teclado – the keyboard

La batería - the drums

Una canción – a song un espectáculo – a show

Un cantante – a singer

al balonmano – handball al baloncesto – basketball al voleibol – volleyball

equitación - horseriding

piragüismo - canoeing

atletismo - athletics

vela - sailing patinaje sobre hielo - ice skating

fanatic miembro de un club de... - a member of a _____ club

karate - karate

al badminton/fútbol/rugby/tenis/hockey/croquet/béisbol

because

<u>reír</u>

6

9

11

15

boxeo - boxing

gimnasia - gymnastics natación -

de todo

y me ayuda olvidarme

ya que me aburre como

aunque sé que es sano.

Además. me encanta

escuchar música y

suelo escuchar la

música de Adele

pero en el futuro

batería.

fútbol

pero ya no.

partido.

dado que canta bien y

No toco un instrumento

voy a aprender tocar la

Cuando era joven era

hincha de FC Barcelona

porque jugaba mucho el

Ahora prefiero ver un

me encanta la letra.

sin embargo nunca

monto en bici

una ostra

and helps me to forget

however I never ride my bike

because it bores me to death

although I know that it's

Moreover, I love listening to

I tend to listen to Adele's

because she sings well and I

I don't play an instrument but

I'm going to learn to play the

When I was younger I was a

because I played loads of

but I don't anymore.

Now I prefer to watch a

fan of Barcelona FC

everything

healthy.

music and

music

love the lyrics.

in the future

drums.

football

match.

Year 10 Spanish GCSE Autumn Term Knowledge Organiser - Intereses e influencias

montar en bici/monopatín - riding my No aguanto - I can't bike/skateboard stand usar el ordenador – using the No soporto – I can't computer stand ver la tele - watching tv Odio – I hate jugar con los videojuegos – playing video games cocinar - cooking

Me encanta escuchar – I love to listen to

Asistir a un concierto – to attend a concert

Mi cantante favorito/a es... - my favourite

aficionado/a de - a fan of

hincha de - a fan of

fanático/a de - a

judo - judo

swimming

ciclismo - cycling

tiro con arco – archery

remo - rowing

Suelo escuchar – I tend to listen to

2. La música / Music

Toco - I play

singer is... Cantar - to sing

Era - I was

Juego - I play

Hago - I do

3. Los deportes / Sports Soy - I am

Toca – he/she plays

Tocan – they play

Autumn Term - Knowledge Organiser BTEC Tech Award in Sport Component 1: Preparing Participants to Take Part in Sport and Physical Activity



Key Vocabulary:				Types of sport and physical activity providers	Equipment, technology and preparing participants		
1	Sport	Competitive activities that involve	7	Sports – team/individual	12 Types of technology in sport		
		physical exertion, have rules and regulations and a National Governing Body. These can be team or individual sports.		am sport includes playing sports with other people such as volleyball, rugby and cricket. vidual sports includes sports where you play alone such as golf, tennis and archery.	To improve performance and participant experience Clothing to increase performance and experience – improved thermoregulation, clothing designed to improve aerodynamics. Footwear – sport-specific new designs or materials; improve grip; rebound. Sport-specific equipment – new materials for lightness		
2	Physical	An activity involving movement that	8	Outdoor activities	and strength to include composite materials (racquet),		
	Activity	results in energy expenditure but without competition against another person or team.	Exa	Putdoor activities — activities carried out outdoors or in recreation areas that are adventurous. amples include rock climbing, kayaking, wind surfing, pot holing, hiking, paragliding and hang gliding.	safety and disability sport. Facilities – surfaces to reduce the risk of injury. Officiating – computer assisted systems; video assisted decision making.		
			Benefits of taking part in outdoor activities – positive risk taking activities, improved self confidence and self esteem, meet new people, learn new skills, time away from life stresses and electronic devices.		13 Limitations of using technology		
3	Benefits	Benefits of taking part in sport – improve fitness, meet new people, develop leadership skills, learn team work skills, resilience and self confidence from competition.			Limitations that technology can have for sport and physical activity participation. Time – setting up, using equipment, compiling date, giving		
			9	Physical Fitness activities	feedback to participant. Access to technology – equality and unfair advantages as		
			Physical fitness activities – activities to increase fitness such as weight training, Zumba, spinning, boxercise and yoga classes. Benefits of taking part in physical activities – meet new people, set fitness goals, improve confidence, improve body composition, improve physical health. 10 Types and needs of sport and physical activity		not all participants		
4	Barriers	Barriers to participation that can prevent some types of participant from taking part in regular sport and physical activity.			have access to technology. Cost of technology – initial cost and follow-up maintenance of equipment. Accuracy of data - provided by equipment. Usability – specific training required.		
_	Duantalan		l lucal a u	participants	Planning and delivering a warming up		
5	Provision	Places that provide sporting opportunities for the public sector include local authorities and school. Private sector – provided by organisations who aim to make a profit. Voluntary sectors – activities provided by volunteers who have a common interest in the sport	Understanding the characteristics of different types of participant and how this affects their different physical, social and mental health needs. Types of participants – including those of different ages, with disabilities and long-term health conditions. Government recommended guidelines for types, frequency and intensity of physical activity for different types of participant (physical, social mental health needs).		Warm-ups should be safe, effective and appropriate. Planning a warm-up – Types and structure (3 part) Pulse raiser – activities that gradually increase in intensity to increase the heart rate. Stretching and mobilising – muscles and joints Responses of the body systems – cardiovascular & musculoskeletal Increase HR, blood flow (oxygen supply), body temperature, muscle elasticity and range of movement.		
6	Participant	/activity. The characteristics of different types	Barriers to participation in sport and physical activity Methods to address barriers to participation				
0	Participant s	of participant and how this affects their different physical, social and mental health needs.	Barriers to participation such as cost, access, time, personal and cultural. Methods to address barriers such as discounts, increased local provision, creche facilities, opening hours and targeted group sessions (women only).		Delivering a warm-up – consider size of space/areas use equipment, organisation of participants, timing and positioning when demonstrating. Supporting participants as they take part in the warm-u observing participants, providing instructions teaching points and feedback to participants.		