BLAISE HIGH SCHOOL

Year 11

Knowledge Organiser

# Term 2: 2020



**Triple Science** 

Name:

# Knowledge Organiser

- 1 English
- 2 Maths
- 3 Science
- 4 Art
- 5 Catering
- 6 Computing
- 7 D&T
- 8 Dance
- 9 Drama
- 10 Engineering
- 11 French
- 12 Geography
- 13 Graphics
- 14 Health & SC
- 15 History
- 16 Media
- 17 Music
- 18 PE
- 19 RE

# Romied and Juliet knowledge organiser

#### Context - The play was written by William Shakespeare, and was first performed around 1594.

larespeare, and was first performed around 1594.
Elizabethan England and Italy – Shakespeare frequently engaged with Italy in his plays, leading many to believe that he travelled there between the late 1580s and early 1590s. Italy was a place that Shakespeare's contemporaries would have had a keen interest in; it was already an <u>advanced</u> and <u>beautiful</u> place for travel. Shakespeare's depictions of many areas of Italian life at the time are deemed largely accurate.
Patriarchal Society – Society throughout the Middle Age and at Shakespeare's time was patriarchal – women were considered inferior to men. This was also the case in much of Europe, including Italy. Women belonged to their fathers (or brothers if their fathers had died) and then their husbands, so luliet would be expected to obey her father. Women were not permitted to own land or enter most professions. They were instead expected to bear children, be gentle and womanly.
Healthcare and Medicine – Healthcare and medicine were not as advanced in Shakespeare's age as they are today – there were numerous ailments and disease that were not yet understood. This makes it much more believable for both the Capulets and Romeo that Juliet could have died so suddenly and so young. The high death count in the play would seem slightly more common in those days!
tended through his characterisation of each of the below
Juliet – The daughter of Capulet and Lady Capulet. Juliet is a <u>beautiful</u> young girl (13 years old at the start of the play). Juliet is carring, compasionate, and at times demonstrates <u>courage</u> (she defies her parents in order to marry Romeo, and drinks the contents of the vial without fully trusting its effects). At times, she shows great intelligence and wit, particularly in conversations with her mother.
First Scene: Act I Scene III Final Scene: Act V Scene III
Mercutio – A kinsman to the prince and one of Romeo's closest friends. Mercutio is an extraordinary character in that he has sparkling wit and a vivid imagination. Much of Mercutio's speeches deal in puns and word-play. He appears to see himself as being
above the vices of love, choosing instead to view it as misplaced sexual appetite. His hot-headedness is eventually his downfall.
First Scene: Act I Scene IV Final Scene: Act III Scene I
Friar Laurence and the Nurse – Both Friar Laurence and the Nurse act as guidance counsel for Romeo and Juliet. They appear to

#### Themes - A theme is an idea or message that runs throughout a text.

Love - In Romeo and Juliet, love is an extremely overpowering force that supersedes all other values, emotions, and loyalties. Through their love, Romeo and Juliet conspire to go against the forces of their entire social world. Romeo returns to visit Juliet at points, even though he is well aware of the threat of death. At times, love is presented as fickle (Mercutio's speeches, Romeo + Rosaline). Individual vs Society - Romeo and Juliet are forced to undermine the oppressive rules of society at the time. For example, rules of the patriarchal family force Juliet to be subservient to her parents, rules of religion mean that they must marry in haste, and rules of masculinity force Romeo into conflict with Tybalt.

Violence - Extreme violence takes place sporadically throughout the play. The feud between the two families is so bitter that the mere sight of each other can be the cause of a fight to the death. Unchecked violence is personified through the character of Tybalt. The violence culminates in Act 3 Scene 1, in which both Mercutio and Tybalt are murdered.

Fate - In the first address to the audience, the Chorus states that Romeo and Juliet are 'star-cross'd' lovers, meaning that fate had intended for their paths to cross, and that fate controls their actions. A series of unfortunate accidents towards the end of the play thwart Friar Laurence's plan and eventually manifest in both Romeo and Juliet committing suicide, thus adding to the sense of fate.

	Scene-by-Scene Summary – Take note of the k	ey quotations from each scene.
Prologue	The Chorus speaks of an ancient grudge between two households, from which two 'star-crossed lovers' appear.	From forth the fatal loins of these two foes A pair of star-crossed lovers take their life
Act 1 Scene 1	A street brawl breaks out between the Montagues and Capulets. The Prince intervenes. He threatens the death sentence for anyone who breaks the peace again.	To old Free-town, our common judgment-place. Once more, on pain of death, all men depart.
Act 1 Scene 2	Paris speaks of his desire to marry Juliet to Capulet. They arrange a masquerade ball so that he can begin to woo her. Peter accidentally invites Romeo and Benvolio.	One fairer than my love? The all-seeing sun Ne'er saw her match since first the world begun.
Act 1 Scene 3	Lady Capulet discusses the prospect of Juliet getting married to Paris. She dutifully says that she will look upon him.	I'll look to like if looking liking move/ But no more deep will I endart mine eye/ Than your consent gives strength to make it fly.
Act 1 Scene 4	Before the ball, Mercutio mocks Romeo. He gives his 'Queen Mab' speech. Romeo fears the night will set fate in motion.	O, then I see Queen Mab has been with you She is the fairies' midwife
Act 1 Scene 5	Romeo and Juliet meet at the ball. They immediately fall for each other – Romeo uses metaphors to compare her to a pilgrim. Tybalt spots Romeo and wants to kill him, but Capulet stops him. Romeo and Juliet learn that they are from warring families.	If I profane with my unworthiest hand This holy shrine, the gentle sin is this: My lips, two blushing pilgrims, ready stand To smooth that rough touch with a tender hiss.
Act 2 Prologue	The chorus returns and delivers a sonnet about the new love.	But passion lends them power, time means, to meet,
Act 2 Scene 1	Benvolio and Mercutio search for Romeo, who has escaped them in the hope of re-finding Juliet.	Co then, for 'tis in vain To seek him here that means not to be found.
Act 2 Scene 2	The famous 'balcony scene.' Romeo decides that he cannot go home without seeing Juliet again. He trespasses into her garden, where she appears at a window. They decide that they will wed.	If that thy bent of love be honorable, Thy purpose marriage, send me word tomorrow, By one that I'll procure to come to thee,
Act 2 Scene 3	Romeo visits Friar Laurence to ask if he will wed him to Juliet. Whilst shocked at how fickle Romeo's love is, he agrees.	Thy love did read by rote that could not spell. But come, young waverer, come go with me,
Act 2 Scene 4	Romeo arrives to meet Mercutio and Benvolio. The Nurse and Peter then arrive, and Mercutio makes fun of the Nurse. When Mercutio leaves, Romeo arranges with the Nurse for Juliet to meet him at Friar Laurence's chamber.	The sovereignty will fall upon Macbeth. Bid her devise/ Some means to come to shrift this afternoon. And there she shall at Friar Lawrence' cell Be shrived and married.
Act 2 Scenes 5-6	The Nurse sends Juliet to Friar Laurence's cell, where they are married. The Friar warns them to love moderately.	But come what sorrow can,/ It cannot countervail the exchange of joy/ That one short minute gives me in her sight.
Act 3 Scene 1	Tybalt duels Mercutio. Romeo tries to make peace, but Tybalt stabs Mercutio dead under Romeo's arm. In rage, Romeo kills Tybalt. The Prince arrives and exiles Romeo.	"A plague o' both your houses" "Ask for me tomorrow, and / you shall find me a grave man"
Act 3 Scene 2	The Nurse tells Juliet of the fight. Juliet is traumatised by the idea of an exiled Romeo. The Nurse says she knows where he is hiding.	O nature, what hadst thou to do in hell/ When thou didst bower the spirit of a fiend/ In moral paradise of such sweet flesh?
Act 3 Scenes 3-4	Romeo despairs at hearing of being banished. The Friar makes a plan for him to visit Juliet before leaving. Elsewhere, Capulet contacts Paris and arranges for Juliet to marry him.	There is no world without Verona walls But purgatory, torture, hell itself. Hence "banishèd" is banished from the world,
Act 3 Scene 5	Romeo reluctantly leaves Juliet. Her mother then tells of the marriage to Paris. She rejects it. Capulet threatens to disown her.	Hang thee, young baggage! Disobedient wretch! I tell thee what: get thee to church o' Thursday,
Act 4 Scenes 1-2	Juliet meets Friar Laurence, saying that she would rather kill herself than marry Paris. Friar Laurence proposes the sleeping potion plan. She agrees, returns to her parents, and repents.	Take thou this vial, being then in bed, And this distillèd liquor drink thou off,
Act 4 Scene 3	Juliet is scared, but drinks the contents of the vial.	Romeo, Romeo, Romeo! Here's drink. I drink to thee.
Act 4 Scenes 4-5	The Nurse finds Juliet dead on her wedding morning. The family are distraught, but agree to make the funeral arrangements.	O me, O me! My child, my only life, Revive, look up, or I will die with thee!
Act 5 Scene 1	Romeo is told of the death by Balthasar. Romeo decides that he will return to Verona to kill himself. Before doing so, he purchases poison from an apothecary.	Well, Juliet, I will lie with thee tonight. Let's see for means. O mischief, thou art swift
Act 5 Scene 2	Friar Laurence learns that Romeo has not received his letter informing him of the plan, and is worried. He doesn't know that Romeo now thinks that Juliet is dead.	Unhappy fortune! By my brotherhood, The letter was not nice but full of charge,
Act 5 Scene 3	Romeo finds Juliet's body and kills himself. She awakens and kills herself. Montague and Capulet commit to resolve.	For never was a story of more woe Than this of Juliet and her Romeo.

Dramatic	Devices in Romeo and Juliet	Features of a Tragedy in Romeo and Juliet
Dramatic Irony	Mercutio and Benvolio think Romeo is still pining over Rosaline, but the audience knows he has moved on to Juliet. A2 S1	Tragic Hero - A main character cursed by fate and possessed of a tragic flaw (Romeo, and to an extent Juliet).
Soliloquy	Juliet's opening speech in A3 S2 in which she pours her heart out over her love for Romeo.	Hamartia - The fatal character flaw of the tragic hero (his passion and impulsiveness).
Aside	Juliet secretly hopes for the 'villain' Romeo: Villain and he be many miles asunder God pardon him! A3 S5.	Catharsis - The release of the audience's emotions through empathy with the characters.
Foreshadowing	Friar Laurence: These violent delights have violent ends, And in their triumph die, like fire and powder. A2 56	Internal Conflict - The struggle the hero engages in with his/her fatal flaw.

#### Important Exam Information - Paper 1 Section B - Extract question

Extract question
 No choice of question
 45 minutes

#### Key Themes (AO1): -Christmas Spirit

 -Christmas Spirit
 -Family

 -Redemption
 -Loneliness and

 -Poverty
 isolation

 -Social responsibility
 -Time

 -Supernatural
 -Education

#### Characters (AO1):

#### 1.Ebenezer Scrooge: Miserly, mean, bitter, materialistic, unsympathetic, indifferent, cold, selfish, isolated, cynical, charitable, value driven, generous, happy, sociable, transformed.

#### 2. Marley's Ghost:

Materialistic, self-centred, terrifying, haunting, exhausted, direct, reformed, regretful, hopeful, selfless, wise

#### 3. Bob Cratchit:

Uncomplaining, tolerant, courteous, deferential, patient, civil, eager, pleasurable, goodhumoured, playful, caring, tender, cheerful, loving, forgiving.

4. Fred: Warm-hearted, empathetic, cheerful, optimistic, even-tempered, insightful, determined, generous, forgiving, jovial, enthusiastic, caring

5. Ghost of Christmas Past: Contradictory, strong, gentle, quiet, forceful, questioning, mysterious

6. Ghost of Christmas Present: Compassionate, abundant, generous, cheerful, jolly, friendly, severe, sympathetic

7. Ghost of Christmas Future : Mysterious, silent, ominous, intimidating, frightening, reoslute

8. Tiny Tim: Frail, ill, good, religious

#### Key Quotations (AO1):

#### Stave One

'He was as tight-fisted as a grind stone' – about Scrooge 'His face was ruddy and handsome, his eyes sparkled' – Fred (presented as the opposite to Scrooge) 'I wear the chain I forged in life' –Ghost of Marley

#### Stave Two

'It wore a tunic of the purest white... from the crown of its head there sprung a bright clear jet of light' – Ghost of Christmas Past 'A lonely boy was sat reading near a feeble fire' – Scrooge as a young boy "'Your lip is trembling,' said the Ghost, 'And what is that upon your cheek?' – first sign of emotion from Scrooge

#### Stave Three

'There sat a jolly Giant, who wore a glowing torch...it was clothed in one simple green robe' – Ghost of Christmas Present 'God bless us everyone!' – Tiny Tim's positive attitude 'Tell me Tiny Tim will live...' – Scrooge showing compassion.

#### Stave Four

'The phantom slowly, gravely, silently approached' – Ghost of Christmas Yet to Come 'I fear you more than any spectre I have seen' – Scrooge 'Tell me I may sponge away the writing on this stone!' – Scrooge desperate to change his ways 'I will honour Christmas in my heart' - Scrooge

#### Stave Five

'l'll raise your salary Bob and endeavour to assist your struggling family' – Scrooge changing his ways. 'to Tiny Tim, who did NOT die, he [Scrooge] was a second father' – Scrooge changing his ways 'Wonderful party, wonderful games, wonderful unanimity, won-der-ful happiness!' – repetition shows Scrooge's joy at the end.

#### Sentence starters:

**Point (AO1):** Use the words from the question and include a method used by the writer.

**Evidence (AO1):** For example/ This is seen when '...'

Analysis (AO2): This word/method '…' implies/suggests… It makes us realise/think/feel/imagine… Furthermore, the word '…' is crucial because…

Link (AO3): This could represent/symbolise the ... in society/it may represent Dickens view that...

#### 'A Christmas Carol' Knowledge Organiser

Tips for use: create mind-maps, flash cards, ask someone to test you, look, cover, write, check

#### Context (AO3):

#### Dickens' Life

 Charles Dickens was born on February 7, 1812 in Hampshire into a middle class family.
 His dad was imprisoned for debt leading to poverty for the

Gamily.
 Charles was put to work at Warren's Blacking Factory.

Charles was pur to work at warren's blacking racioly.
 Dickers found employment as an office boy at an attorneys.
 A Christmas Carol was written in 1843

#### Industrial Revolution

1. From 1780 factory owners in Britain began to use coal-fired steam engines to power the machines in big factories, bringing areat fortune.

2. Transition from traditional farming methods to machinery led to Industrial revolution.

3. People flocked from the countryside to the cities. London's population between 1800 and 1900 from 1 million to 6 million people. This led to over-crowding and hunger, disease and crime. There were no proper drainage / sewage systems. Many families had to share one tap / toilet. Children suffered the most and were exploited by factory owners who forced them to work long hours in dangerous conditions.

#### Charity

1. Industrial revolution led to a gap between the rich and poor with many struggling to survive relying on the generosity of those better off than themselves.

2. Some philanthropists were keen to enhance the lives of the workers. Cadburys tried to provide quality homes and improve lifestyles of workers at their factory in Bournville.

#### Education

 Dickens believed strongly in the importance of education.
 As part of his campaign against the treatment of the poor, Dickens worked with a friend called Angela Burdett-Coutts.
 In 1840s, Dickens and Coutts became involved in the Ragged Schools. The aim was to provide poor children with basic education.

4. Dickens believed that it is through education that one can leave poverty.

#### Religion

 Christianity held a strong influence in Victorian Britain, especially amongst the middle / upper classes.
 Good Christians believed in a strict moral code – attending church regularly, avoiding alcohol and exercise sexual restraint.
 Dicken's view on Christianity was different. He believed that to be a good Christian people should seek out opportunities to do good deeds for other people.

4. Sabbatarianism – when people spent Sunday going to church and resting. Dickens was opposed to this because it meant that working poorer people were denied any enjoyment on their one day off – everything was shut.

5. Poorer people didn't have ovens at home so often food cooked by bakers. Sabbatarianism meant that many people couldn't get a hot meal on Sundays because the bakers were shut.

#### Plot (AO1):

**Preface:** Charles Dickens write a note to his readers to explain that he wants to introduce an entertaining idea to them.

#### Stave One

1. Introduced to Ebenezer Scrooge on Christmas Eve. He is a lonely miser obsessed with money. He won't pay to heat the office properly – meaning Bob Cratchit is very cold.

We learn Jacob Marley, Scrooge's business partner, died exactly 7 years earlier.
 Scrooge is irritated that Christmas Day seems to be interrupting his business.
 Scrooge is visited by his nephew Fred, who invites his uncle to Christmas dinner.
 Scrooge refuses.

5. Scrooge is visited by two charity workers, asking for donations. Scrooge refuses and exclaims he wants to be left alone.

6. Scrooge allows Bob to have Christmas Day off.

7. Scrooge, when he is home, is visited by the Ghost of Jacob Marley – warning him he will be visited by three more ghosts to help him change his ways.

#### Stave Two

Scrooge is visited by the Ghost of Christmas Past who takes him to witness his past.
 Scrooge is taken first to his schoolboy years and he is reminded how his friends would go home from Christmas while he was left at school.

3. We see him with his sister, who one year took him home for the holidays.

4. Next we are shown Scrooge as a young apprentice, working for Fezziwig. Dickens describes the Christmas ball Fezziwig organised for his employees.

5. Finally, Scrooge is taken to see his ex-fiancée, Belle. We see the scene when they break up, as money has taken over Scrooge's life.

6. Scrooge cannot bear to see any more and struggles with the spirit.

#### Stave Three

1. Scrooge is then visited by the Ghost of Christmas Present.

2. The spirit shows Scrooge how the Cratchit family celebrate Christmas. Scrooge asked if Tiny Tim will life. The spirit explain unless there are changes, he will die. The spirit reminds Scrooge of his earlier words: 'If he is to die, he had better do it, and decrease the surplus population'

3. Scrooge is then taken to see how others celebrate Christmas: miners, lighthouse workers, sailors on a ship.

He is then taken to Fred's house at Christmas, where they are playing games.
 The spirit then begins to age, and see under the spirit's robes two children: Want and Ignorance.

6. The Ghost of Christmas Future then appears.

#### Stave Four

1. The Ghost of Christmas Future is described.

2. The spirit takes Scrooge to see a group of businessmen discussing someone who has died.

3. Scrooge is then taken to see Old Joe, where he is in the process of buying property of the dead man – which have been stolen.

Scrooge then returns to Bob Cratchit's house, where it is revealed Tiny Tim has died.
 Scrooge is then taken to the graveyard and is shown a grave stone and realises this is for him.

6. Scrooge falls to his knees and begs that he will change his ways.

#### Stave Five

1. Scrooge wakes up in his own bed.

2. Scrooge wonders how much time has passed and calls to a boy. He then sends the boy to the poulterer for the prize turkey to give to Bob Cratchit,

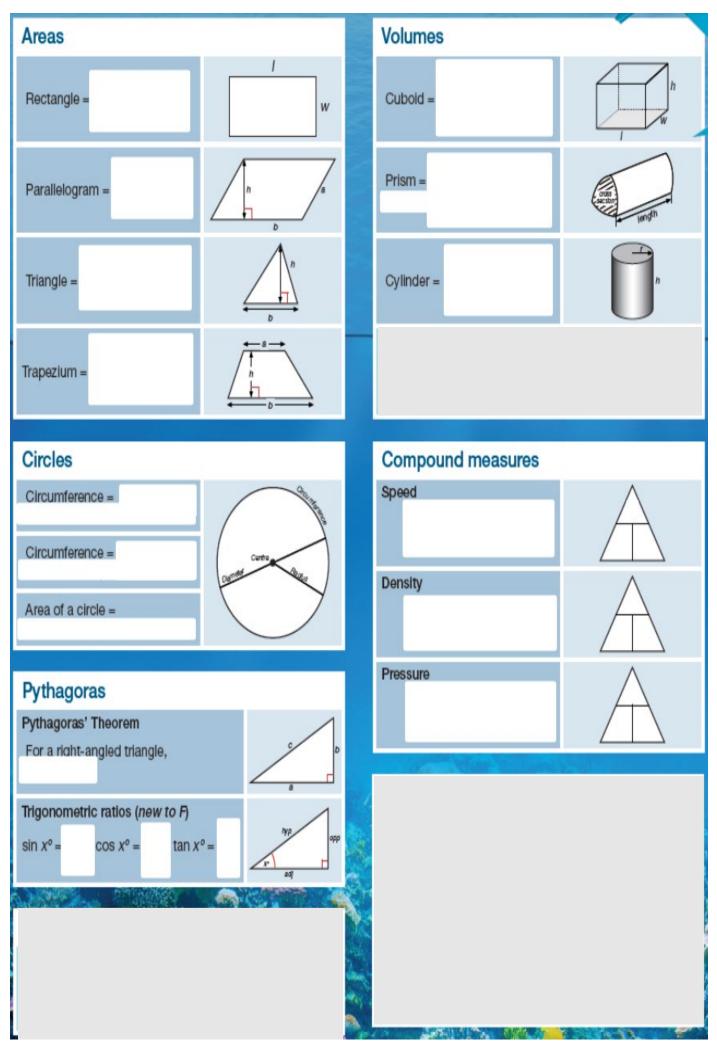
3. Scrooge meets one of the charity collectors from earlier and whispers to him that he will give a large donation.

4. Scrooge then goes to Fred's house and is welcomed in. He enjoys the dinner and party.

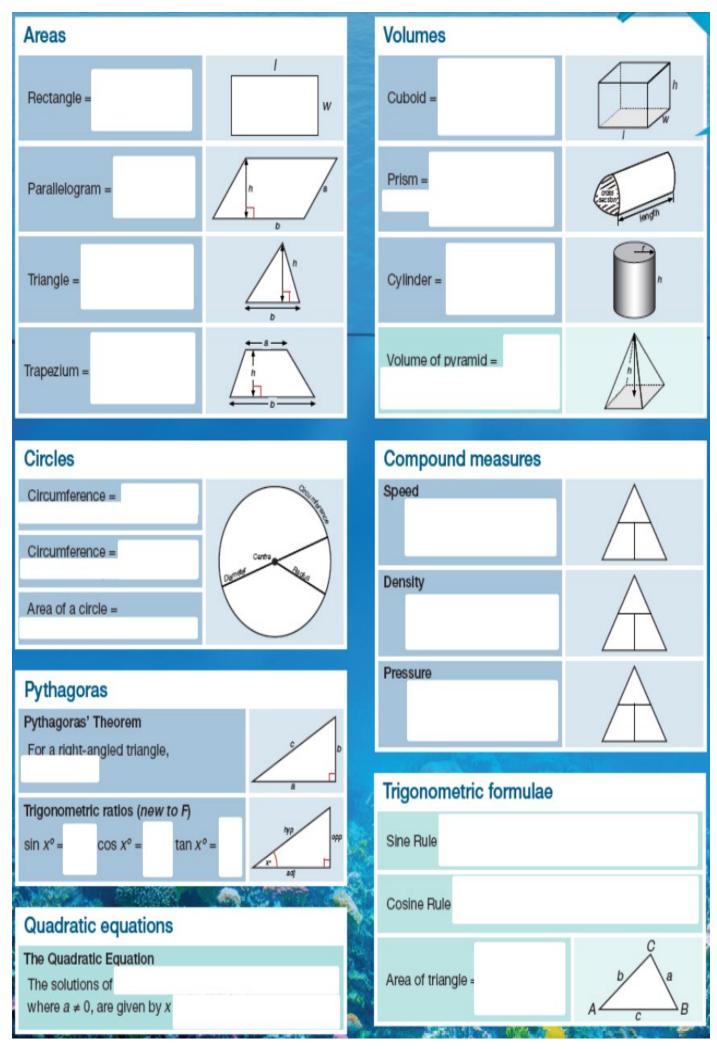
5. On Boxing Day, Scrooge arrives early to work, and plays a trick on Bob. Scrooge then tells him he is going to raise his salary and promises to help Bob's struggling family.

6. Scrooge is described to have completely changed and becomes a 'second father' to Tiny Tim – 'who did not die.'

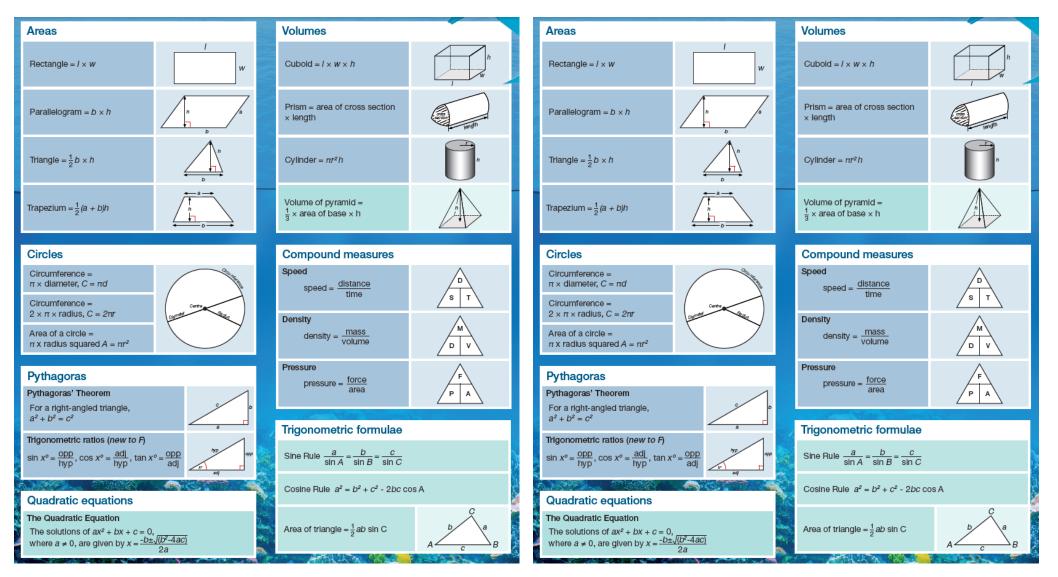
# Maths

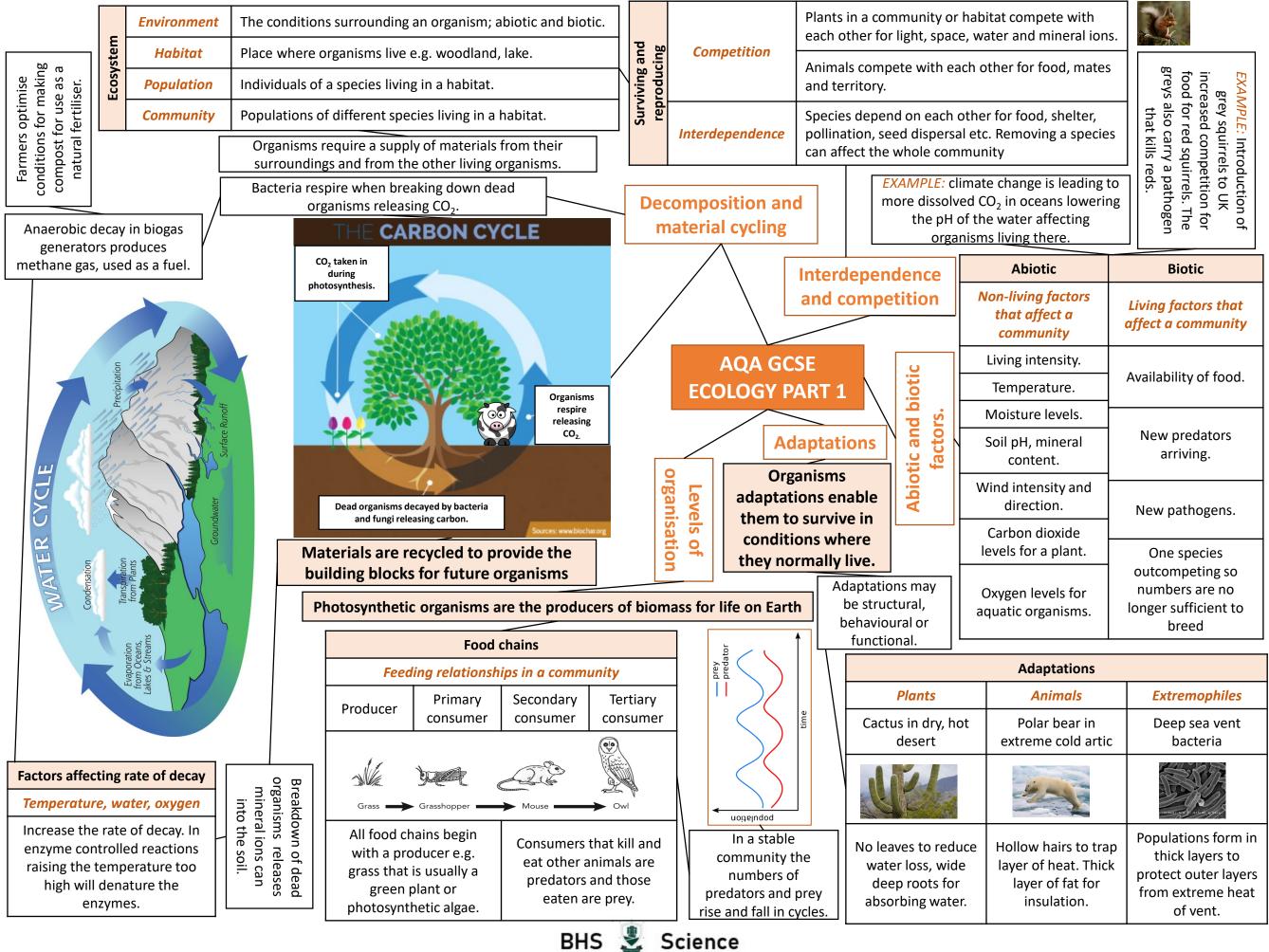


# Maths

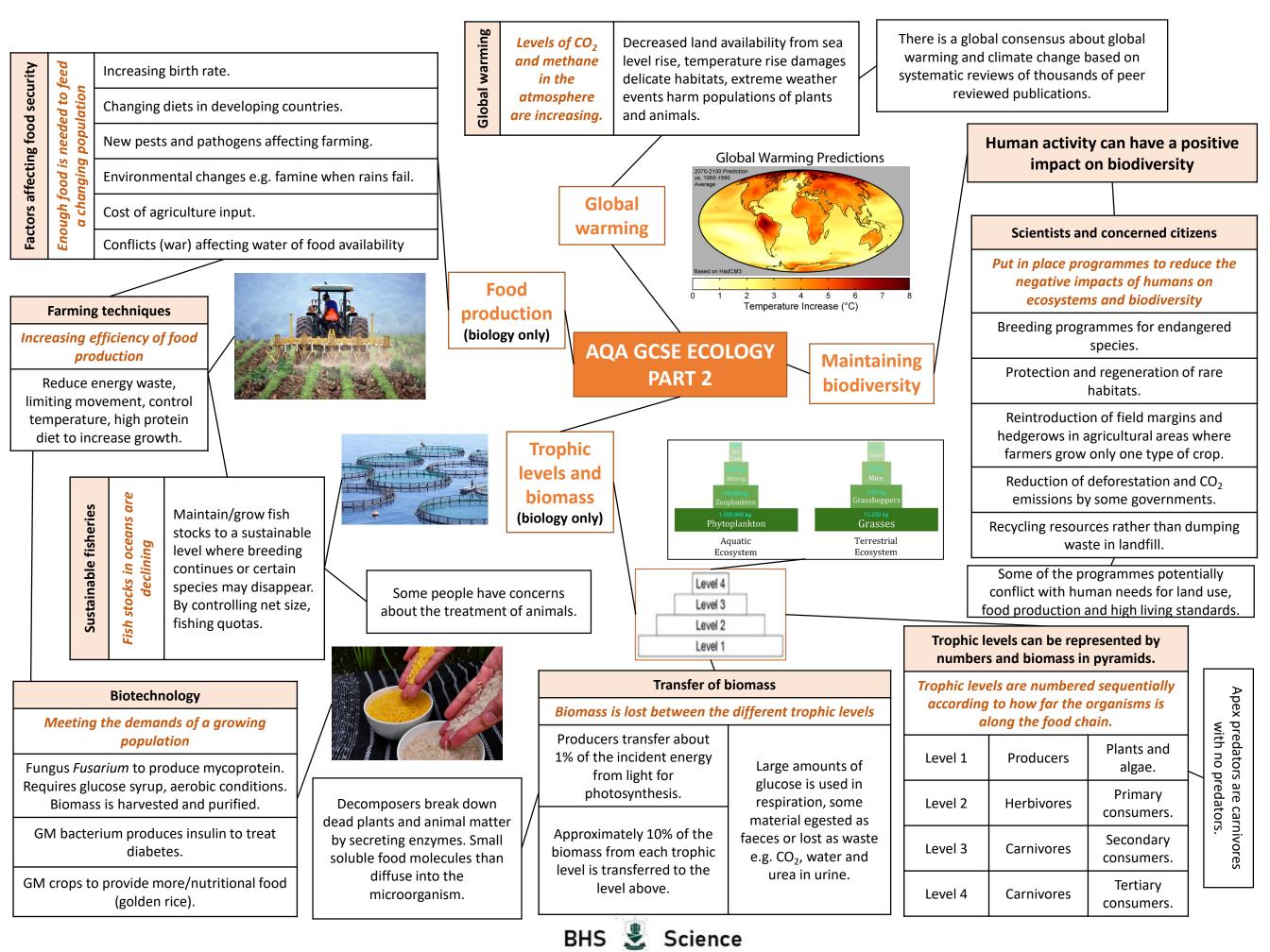


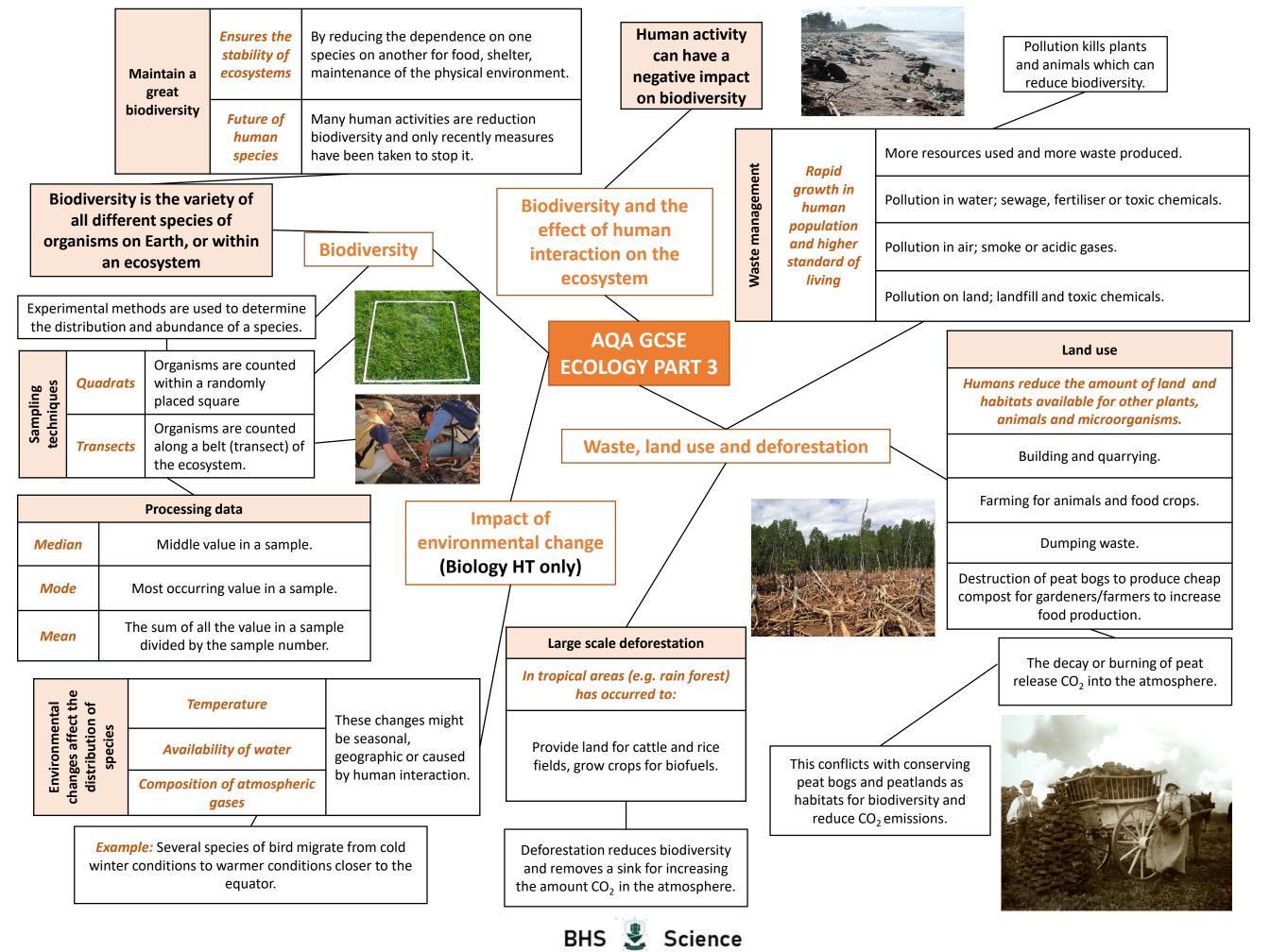
# Maths



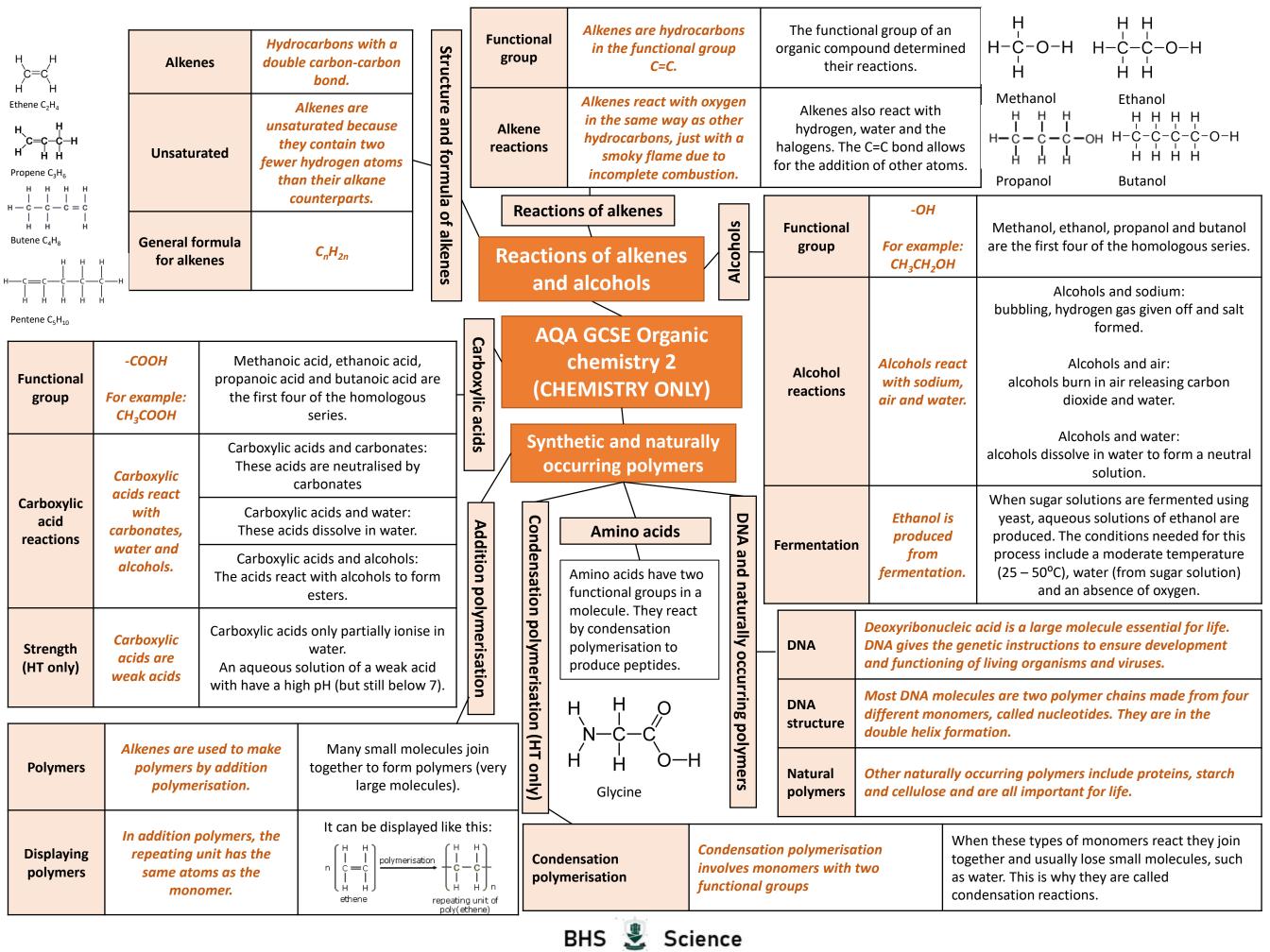


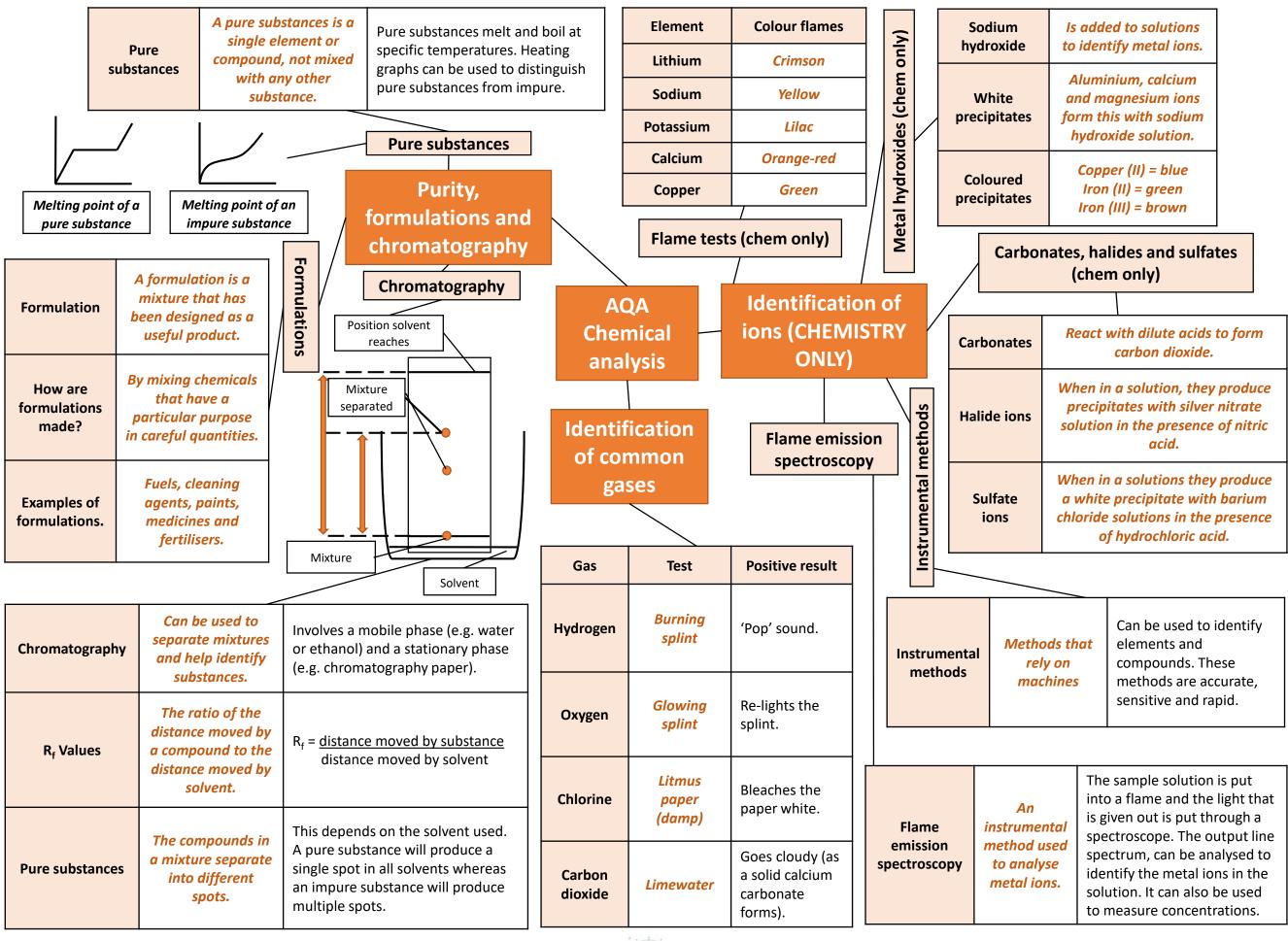
BHS



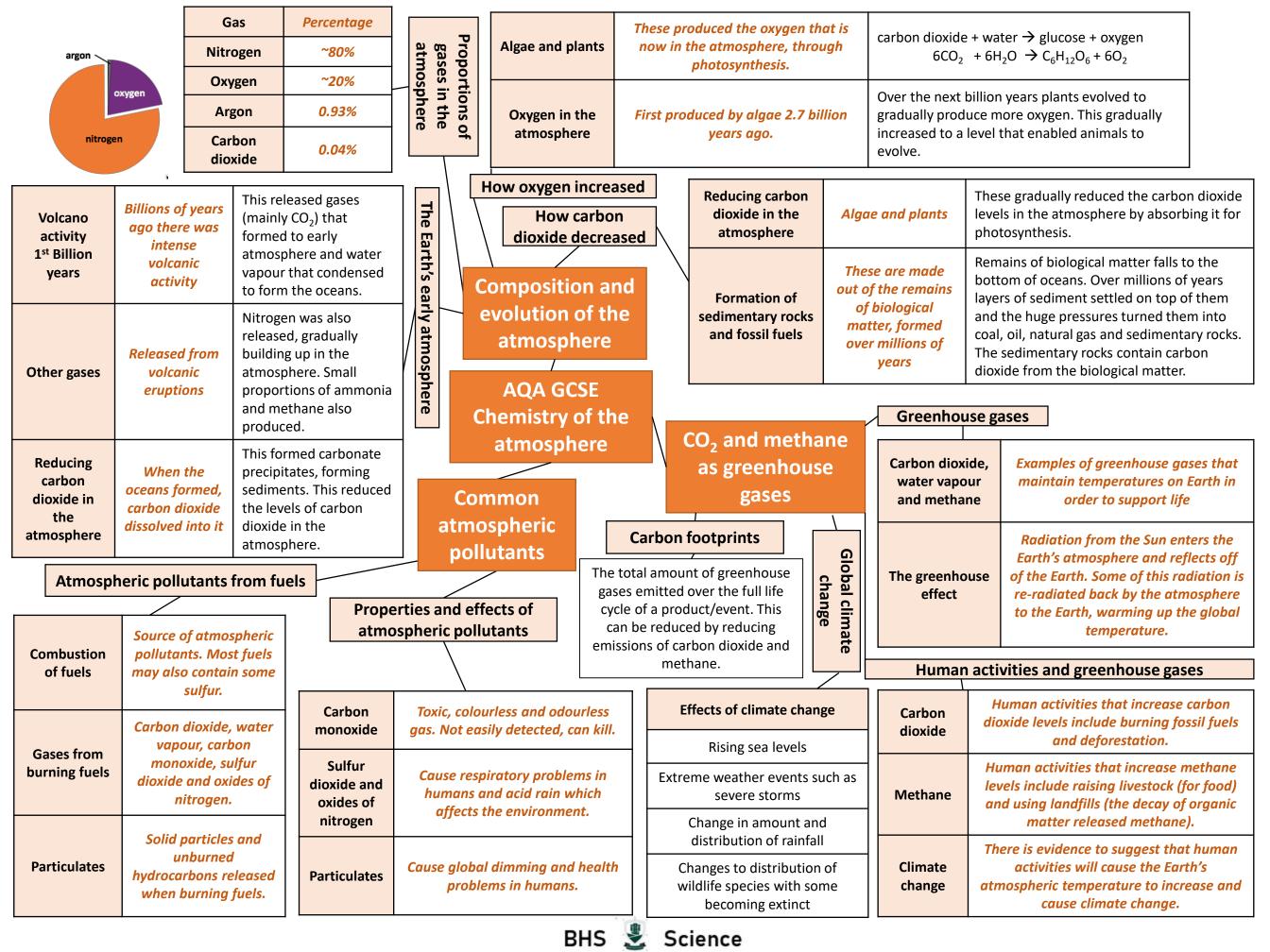


				-	play formula fo	r first four alkanes			Each fraction contains	7
Crude oil	A finite resource	Consisting mainly of plankton that was b in the mud, crude of the remains of anci	uried il is	oil, h Ind a	H I—C—H H ethane (CH₄)	H H H—C—C—H H H Ethane (C <sub>2</sub> H <sub>6</sub> )	Fractions	The hydrocarbons in crude oil can be split into fractions	molecules with a similar number of carbon atoms in them. The process used to do this is called fractional distillation.	
	These make up	biomass. Most of these		ocarbons	Ч Н Н       С—С—С—Н       Ч Н Н	H H H H H		Fractions can be processed to	We depend on many of these fuels; petrol, diesel and kerosene.	
Hydrocarbons	the majority of the compounds in crude oil	hydrocarbons are c alkanes.	alled	Pro	opane (C <sub>3</sub> H <sub>8</sub> )	Butane (C <sub>4</sub> H <sub>10</sub> ) nds as fuels	Using fractions	produce fuels and feedstock for petrochemical industry	Many useful materials are made by the petrochemical industry; solvents, lubricants	
		For example:			and feed				and polymers.	
General formula for alkanes	<i>C</i> <sub>n</sub> <i>H</i> <sub>2n+2</sub>	C <sub>2</sub> H <sub>6</sub> C <sub>6</sub> H <sub>14</sub>			AQA GO	CSE		distillation and chemicals	20 °C	Butane & Propane
	<u>I</u>		$\neg$	Οι	rganic che			arbon chains in crude oil	t come	
Alkanes to alkenes	-	are cracked into sho alkenes.	rt	Ca		on compounds s fuels and				Kerosene
Alkenes	bond (some are	carbons with a doubl formed during the g process).	2		as fuels feedsto		p fracti	pends on its length. Duri onal distillation, they boi rate at different temperat due to this.	ng I and Crude Oil	Diesel Fuel Oil
Properties of alkenes	and react with bro water changes from	reactive that alkanes omine water. Bromin m orange to colourles nce of alkenes.		Cracking a	and alkenes	Combustion	hydrocarbon	e complete combustion c s, the carbon and hydrog e oxidised, releasing carb	en in furnace	Lubricating oil, Parrafin Wax, Asphalt
	The breaking	down of			]		dioxi	de, water and energy.		Asphan
Cracking	long cha hydrocarboi smaller ch	various m	ethods inc	-		entane + propene + $C_5H_{12}$ + $C_3H_6$ +		Methane + oxygen	e combustion of methane: $\rightarrow$ carbon dioxide + water + end $D_2$ (g) $\rightarrow$ CO <sub>2</sub> (g) + 2 H <sub>2</sub> O (I)	0,
Catalytic crackin	g The heavy fro heated u vaporiso	After vapo passed ov forming s	er a hot ca		Alkenes and uses as	Used to produce They are also u starting materic other chemica	sed as the Ils of many s, such as	Boiling point (temperature at which liquid boils)	(temperature at increases boiling point in	
		hydrocart			polymers	polymers alcohol, pla deterge		Viscosity	As the hydrocarbon chain	_
Steam cracking		nction is mixed wit ntil a very hig	n steam ar n tempera	he vapour is nd heated to ture forming	Why do we crack	Without cracking, long hydrocarbo wasted as there	ns would be	(how easily it flows)	) increases, viscosity incr As the hydrocarbon chain	
	vaporised     smaller, more useful hydrocarbons.     long chains?     wasted as there is demand for these shorter chains?		e as for the	(how easily it burns	-	_				
					BHS 🟅	Science		_		



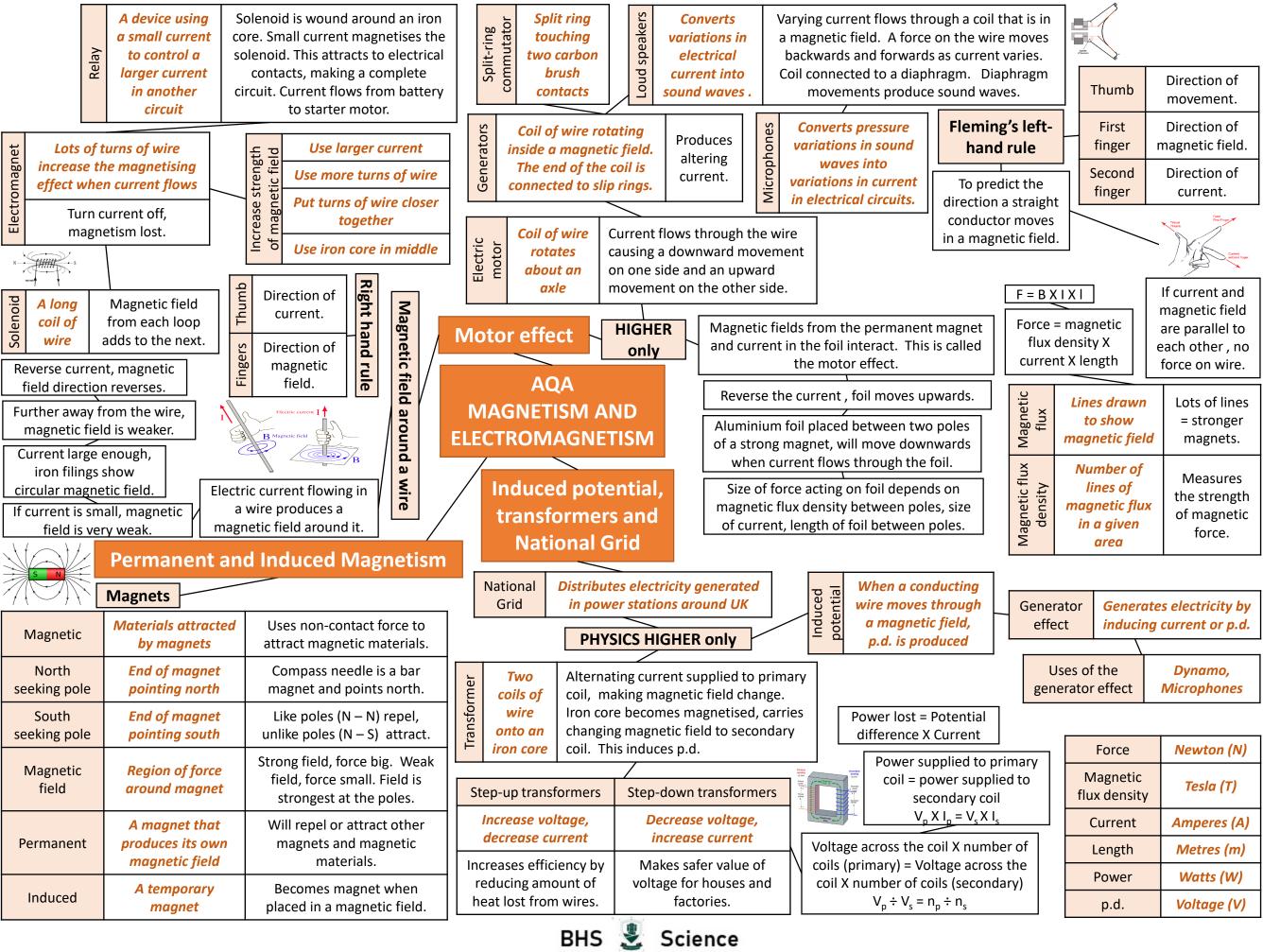


BHS 💐 Science

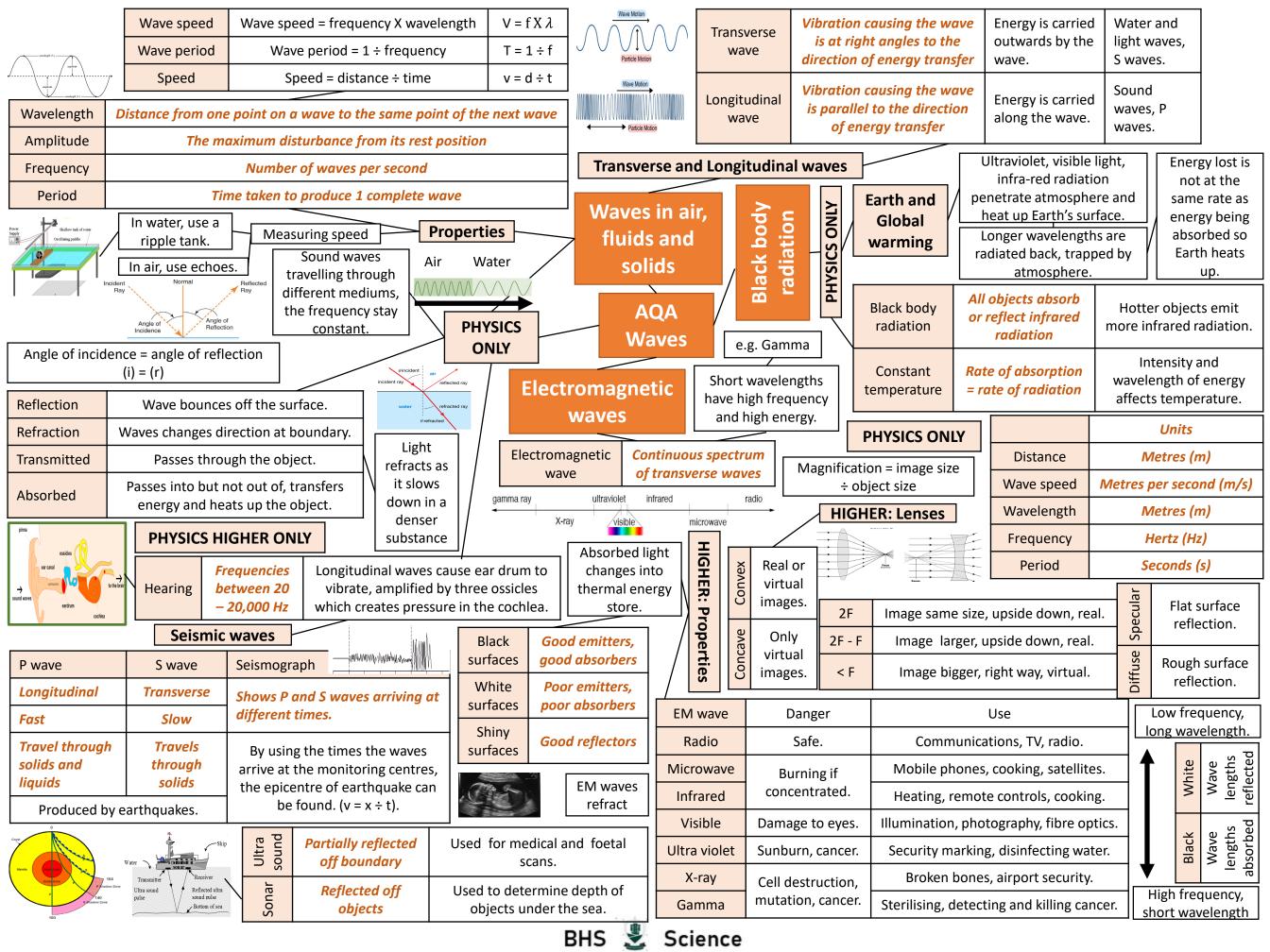


					Sterilising agents include chlorine, ozone and UV light.			able Iter	appropr	er of an iate quality	low lev	vels of dissol	ater should have lved salts and alled potable	
Earth's resource	warm s food a	to provide th, shelter, nd transport humans	Natural resources and from agriculture provid food, clothing and fue Finite resources from t oceans and atmosphe processed to provide e materials.	de: timber, ls. the Earth, re are	using the Earth's resources and development		UK v	vater	Rain pro with lo dis sub: Needs	tial for life vides water w levels of solved stances to occur is	ground water choser filter b	ater collects d/lakes/river an appropria n, which is th reds and the	rs. To make potable ate source is nen passed through	
Chemistr and resource	Y techniq agricu	earch and ues improve ıltural and ial processes	These improvements p products and improve sustainability.		Using the Earth's		Desali	nation	limit salty/se	water is ted and ea water is for drinking	by usir reverse	ng large men e osmosis. T	nbranes e.g. hese processes unts of energy.	
			However, the raw mat	erial ethene	resources and					Waste wa	ater tro	eatment		
Plastics	using e	ally made ethene from ude oil	can also be obtained f ethanol, which can be during fermentation. In are now starting to use renewable crop for thi	produced ndustries e a	obtaining potable water AQA GCSE Using		ethods of	metals (HI)	Waste water	Produced f urban lifest and indust processe	tyles trial	the environr	re treatment before u ment. Sewage needs t ter and harmful micro	the
LCAS	Life cycle assessments carried out assess th environmen impact o products	s are - Extr to mat e - Mar ntal - Use f lifet	re assessed at these stag action and processing ra erials nufacturing and packagir and operation during ime oosal	aw Life c	resources 1 Life cycle assessment and recycling		Alternative methods of	extracting me	Sewage treatment	Includes m stages		<ul> <li>Sediment</li> <li>effluent (</li> <li>Anaerobi</li> </ul>	g and grit removal tation to produce sluc liquid waste or sewag c digestion of sludge biological treatment o	ge).
Values	Allocatin numerical vo to polluta effects is	g alues Value j nt the eff	udgments are allocated fects of pollutants so LCA purely objective process.	to vis	Ways of reducing the	]		Met	als ores	These resou limite		e becom extract	r ores especially are ning sparse. New ways ting copper from low- re being developed.	
	difficult				use of resources			Phyt	omining	Plants absor compou		and bu	plants are then harve Irned; their ash conta compounds.	
-	reuse and cycle	_	gy reduces the use of ted resources		ore, reduces energy sources beir es waste (landfill) and reduces ital impacts.	Б				Bacteria is		The m	etal compounds can b sed to obtain the me	
Limited ra	w materials	materials	etals, glass, building s, plastics and clay ceramics	comes from materials fro	the energy required for these processes om limited resources. Obtaining raw s from the Earth by quarrying and mining nvironmental impacts.			Biol	eaching	produce le solutions tha metal com	it conta	<i>in</i> from it obtain	t e.g. copper can be ed from its compoun cement or electrolysis	ds by
Reusing a	nd recycling	Metals can be recycled by melting Glass bottles can be reused. They are crushed a												

							-		Alloys	A mixt	tur	-					al e.g. Bronze is an alloy of oper and zinc.						
Corrosion	The destruction of materials by chemical reaction	reacts	ample of this is iron with oxygen from t xide (rust) water ne	he air t	o form	Corrosion and its p			Gold carats			-	iour	nt of gold in	it e.g. 1	8 carat is 75%	nc. The carat of the jewellery is 6 gold, 24 carat is 100% gold.						
	with substances the environmen	n   nresei	nt for iron to rust.	eusio	De			ater	ŀ						-	and other m strong but br							
			oles of this are grea	cing no	inting	and its			Steels							er and easily							
Preventing	Coatings can be added to metals	and el	ectroplating. Alumi	nium h	as an				Ste	Steel (	col						and corrosion resistant.						
corrosion	act as a barrier	oxide	coating that protec further corrosion.	ts the n	netal	prevention		are	-							are low dens							
Sacrificial corrosion	When a more reactive metal is used to coat a les	s with t	heans that the coati he air and not the u . An example of this	inderlyi	ng	liion		Alloys			polymers		polymers		Ceramic polymers		mers and			Delana	Ther	nosetting	polymers that do not melt when they are heated.
	reactive metal		nise iron.	7			\ Usir	ngı	V L mate					Polymers	Therm	osoftening	polymers that melt when they are heated.						
NPK fertilisers	These contain nitrogen, phosphorous and potassium				Production fe	ļ	AQA	G	CSE (	Using						-	lass, made by heating sand, sodium nd limestone.						
	Potassium chloride,	Phosphat treated w	e rock needs to be ith an acid to		_		resources 2 (CHEM ONLY)		Composite materials			A mixtu materia togethe	ls put r for a	trioxide, me	Borosilicate glass, made from sand and boron trioxide, melts at higher temperatures than soda-lime glass.								
Fertiliser examples	potassium sulfate and phosphate rock	which is t	a soluble salt hen used as a Ammonia can be		and uses of ·tilisers	T			per pi ne us	rocess e of				specific p e.g. stro		MDF wood resin)	MDF wood (woodchips, shavings, sawdust and resin)						
	are obtained		anufacture m salts and nitric		f NPK				ertili								ement, sand and gravel)						
	by mining	acid.			~							Ceramic material		Made from clay		furnace, cor	Made by shaping wet clay and then heating in a furnace, common examples include pottery and						
			The Haber p	rocess	– conditi	ons an	d equ	uilibu	rium	SS	/ _		<u> </u>			bricks.							
P	hosphate rock			The re	actants s	ide of	the er	auat	tion ho					Mai			rs affect the properties of the w density (LD) polymers and high						
Treatment	Products The acid is neut		Pressure	more n if pre	nolecules	of gas ncreas	. This ed, e	the equation has . This means that ed, equilibrium				Polymer					ensity (HD) polymers are produced from thene. These are formed under different						
Nitric acid	with ammoni produce ammo phosphate, a	nium	Tressure	ammo	nia (Le Cl essure ne	natelie eds to	r's pri be as	incip	ole). Th	The The F		The Haber process	r				n <b>ia is used to produce fertilisers</b> n + hydrogen						
Sulfuric acid	fertiliser. Calcium phospho calcium sulfate ( superphospho	a single	Tomporature	Deci amm	forward r reasing te onia proc	eaction empero luction	ossible. action is exotherm mperature increase uction at equilibriu creaction that occe		eases brium.			Raw materials		Nitrogen fi while hydr natur	ogen fro	m being pa m complet 450°C) a	these gases are purified before assed over an iron catalyst. This is ted under high temperature (about and pressure (about 200 beres)						
Phosphoric acid	Calcium phosph triple superphos	-	Temperature	oppos Too lov	ing the t v though	nergy to surroundin temperature decrea h and collisions woo t to be financially vi		rgy to surrounding mperature decrea and collisions woo		be and a second s		Catalyst		Ire	on	the read	neres). alyst speeds up <b>both</b> directions of ction, therefore not actually ng the amount of valuable product.						
	BHS 🔮 Science																						



BHS



	1 1 1		A natu A body gravity v	large body orbiting the Sun tural satellite orbiting a planet by large enough to have its own which caused a spherical shape	page and gar year years gard gard gard gard gard gard gard gard	PLANETS PLANETS PLANETS PLANETS PLANETS	ect of gravity.	- planets, stars	, planets to to orbit gala of gravity cha direction not	anges the t its speed.	Correc	Too slow =	eady of a late state sta	orbit around Earth. to Earth. speed of
Milky Way our galaxy.	(	Solar system Galaxy Universe	Со	object orbiting the Sun due to gravity ollection of billions of stars Collection of galaxies	Comets, asteroids, sa Other objects.	·	Effect		oulls objects the ground. I motior	Speed of Orbit	end HIGHER: Circular orbits.	Orbit: di move Distanc avera dista	s in 1 e = 2] ge sp	ce object orbit, ∏r, then beed = time.
Nebula Protosta	ar g	A cloud of o hydrogen g and dust The large b gas contrac form a star	gas ball of acts to	The life cycle of a sta Cloud collapses due to gravity, pa fast colliding with each other, kind into internal energy and the tem High temperature causes Hydroge and nuclear fusion begins. A star	articles move very netic energy transfers nperature increases. gen nuclei to collide	РΗ	ACE YSIC	QA PHYSICS CS ONLY d shift		Velocity = a vect A planet's veloc changes but spe remains consta Due to the Sun's gravity, planets accelerate toward		hen ambular	II is st Pla Su sces	ts close to the Sun, gravity trong. Planets move quickly. Inets further away from the n, gravity pull is weaker. So speed of planet is slower. Frequency of sound wave decreases,
Main sequenc		Stable periodstar		Gravity tries to collapse the star b pressure of fusion energy expand inward force. ame size as our Sun.				Red-shift	The obset from m	the Sun and so changes direction rved increase in post distance gale	n. cha pito waveleng uxies. Ligh	th of light th over	high	Galaxies are moving away from us in all directions.
Red giant	fuse	arge star tha es Helium in avier elemer	into res	lydrogen runs out, star becomes un rops causing star to collapse. Atoms esults in atoms fusing and temperat ncrease in temperature causes the c	ns now closer together ature increases. This	ding models.		Hubble (1929)	He studie	irds the red end o ed light from dist ncy decreases, w Light from s	ant galax avelength	ies; found increases.		Light from distant galaxies is red-shifted, so galaxy is moving away from us.
White dwarf Black dwarf		r collapses d dark star		luclear fuel runs out, fusion stops, o	dense very hot core.	Understand		The Big Bang	σ Un	Light from sta Light from sta <b>Iniverse began 13</b> .	ar in distai	nt galaxy.		Galaxies further away have bigger red-shift so are moving faster away.
Red sup giant	ber	Star swell greatly		Nuclear fuel begins to run out matter = bigger size).	and star swells (more			All matter an violently fro	nd space export of a single p	panded Red– point. evide	-shift prov nce for ex	vides spansion.		
Superno	ova	Gigantic explosion run away reactions	n due to y fusion	Rapid collapse, heats to very h causing run away nuclear react flinging remnants out into space	ctions, star explodes, ace. Large gravitational a tiny space.	(an (2	Cope (1473	eo (1610)	Sun at th Made a ta	he centre, other around the ne centre, other h around th relescope, looked moons rotating a	Earth. eavenly b e Sun. at Jupiter	oodies move r, found four		Planets and moons moved at different speeds to stars = reason for different positions.
Neutror star	ו	Very dens	se star	Made out of neutrons.				Disale						1

OR if collapse is into a really tiny space.

Black hole No light escapes

Gravitational forces so strong everything is pulled in.

BHS 불 Science

# GCSE ART AND DESIGN WHAT YOU NEED TO KNOW for your CONTROLLED TEST

You will start your controlled test (your final exam) In January. As with your coursework, in Art and Design there are 4 assessment objectives that you will be graded against for the exam. To maximise your grade you need to complete all 4 steps of the project. Each one is worth 25% of your final grade. Your exam is worth 40% of your overall grade.

You will be given an exam paper with 8 possible questions. With the help of your teacher choose just one.

### **A01** ARTIST ANALYSIS, MAKING LINKS AND IDEAS

What artists are you looking at for this project? How does your own work link or connect to that of the artist you have looked at? Have you developed some of your own ideas? TIP: Complete an 'Artists analysis' sheet. Collect examples of their work and related work that inspires you. 25% of your marks.

### **A02 REFINEMENT AND MATERIALS**

Refine your ideas through experimenting and selecting appropriate resources, materials, techniques and processes. TIP: if you are studying the work of a printmaker who uses lino prints then have a go at carving out a lino design! 25% of your marks.





A03 DRAWING AND RECORDING

# Always make sure you have recorded ideas, observations and insights relevant to your theme. For each project you should include high quality pencil drawings that show a full TIP: Try other exciting materials to draw with such as biro, inks or



unusual materials. 25% of your marks.

tonal range.

### **A04 PRODUCING A FINAL PIECE**

At the end of the exam you will have 10 hours to present a personal, informed and meaningful final piece. This could be a painting, a ceramic piece, a series of prints, a sculpture, a piece of textiles or a mixed media piece. TIP: This should demonstrate how you have made connections with the artists you have studied. 25% of your marks.

#### TOP TIPS FOR MAXIMUM MARKS

- Annotate your sheets explaining your ideas? Describe the process you have gone through of producing your work. Describe why you have made decisions.
- Just like in maths you should keep everything and show all you workings. Think of your project as a journey.
- You will pick up marks for showing how you got from A to B!

# YR 11 HOSPITALITY AND CATERING Level 1/2

Terms 2.1 and 2.2 - In Catering you are assessed on everything you do in class. There are 2 assessment objectives.

### Assessment one (L01 + L02 + L03 + L04 Unit one) Recall and Revise previous topics

- Understand the environment in which hospitality and catering providers operate
- Understand how Hospitality and catering provision operates
- Understand how hospitality and catering provision meets health and safety requirements
- Know how food can cause ill health

# **KEYWORDS AND KEY TERMS**

**HOSPITALITY** – Industry branch which aims to provide accommodation, food, entertainment, transportation and other services for tourists and travellers.

CATERING - Provision of Food and Drink.

PROFIT - The positive difference between expenses and incomes of a business

**NON-COMMERCIAL ORGANISATION** – Types of establishment which does not intend to make a profit.

COMMERCIAL -Type of establishment which aims to gain profit

**ECONOMY** – Term used to describe the volume of production and consumption of goods in a given state or country, or their monetary value.

**PRIMARY HOSPITALITY PROVIDER** – Establishment whose main aim is to provide accommodation and catering.

**SECONDARY HOSPITALITY SECTOR** – Establishments whose main aim is different than providing accommodation and food, but which offers other hospitality services.

CUSTOMER - Client - a person who buys, and consumes goods and services

**FOOD SAFETY-** refers to handling, preparing and storing food in a way to best reduce the risk individuals becoming sick from foodborne illnesses.

**FOOD SAFETY LEGISLATION** - outlines food safety requirements for businesses processing or preparing food and selling food to the public. The health authorities are responsible for approving, permitting, inspecting and responding to complaints about food premises under this regulation

**ENVIRONMENTAL HEALTH OFFICERS** - make sure people's surroundings are safe, healthy and hygienic.

### **Recipes:**

International cuisine Cheesecake Chicken Chasseur Vegetable Curry Meat curry Beef burgers Yeast doughs Pastries Methods of cooking Poaching Steaming

Roasting & Baking.

Grilling & Broiling.

Sautéing & Pan-

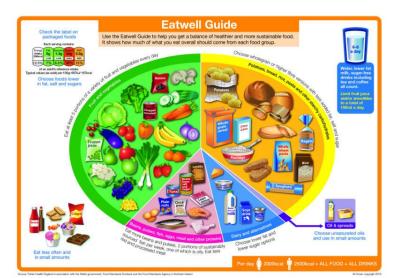
**Deep-Frying** 

Frying.

### Useful websites to embed learning

KNOWLEDGE ORGANISER

- <u>https://www.eduqas.co.uk/qualifications/hospitality-and-catering/WJEC-Level-1-2-Award-in-Hospitality-and-Catering-Unit-2-iSAM%20%20from%202016.pdf?language\_id=1</u>
- http://www.foodafactoflife.org.uk/
- <u>https://lovefoodhatewaste.com/</u>
- <u>http://www.bbc.co.uk/education/subjects/z4</u>
   <u>8jmp</u>





# LEVEL 1 / 2 AWARD IN HOSPITALITY AND CATERING unit 1

#### AC3.1 personal safety responsibility

Abbreviation	Full name
HASAWA	Health and safety at work act 1974
RIDDOR	Reporting of injuries diseases and dangerous occurrences regulations 1995
сознн	Control of substances hazardous to health regulations 2002
PPER	Personal protective equipment at work regulations 1992 http://www.hse.gov.uk/pubns/indg174.pdf
MHR	Manual handling operations regulations 1993

#### **Duties of employers HASAWA**

- · To protect the health, safety and welfare of staff
- Carry out risk assessments
- To provide and maintain safe equipment and safe systems of work
- · Safe use, handling, storage and transport of articles and substances
- Provide a safe workplace with a safe entrance and exit
- · Provide information, instruction, training and supervision on how to work safely
- · Provide a written safety policy

#### Health and safety at Work Act 1974

- · This act covers all aspects of health and safety at work.
- · All employers must take care of their own health and safety and not endanger others.
- The health and safety executive (HSE) exists to protect peoples health and safety by ensuring risks are properly controlled.
- · HASWA also protects other people from risks to their health and safety arising out of the activities of people at work.
- · The law applies to everyone at work and anyone can be prosecuted if they do not act safely

#### H.S.E Health and Safety Executive.

- · H.S.E stands for the Health and Safety Executive.
- The H.S.E will investigate any complaints and safety incidents.
- The H.S.E employ Health and Safety Enforcement Officers who will inspect safety procedures being used.
- They have the power to serve notice and/or issue legal proceedings over safety incidents.
- accident at work.

Duties of employers HASAWA

# AO1

# Understand the environment in which hospitality

#### and catering providers operate .....

#### Environment

- There must be sufficient space to work safely and enough lighting and ventilation
- · Workplaces must be kept generally clean and tidy
- · Chairs must be safe and comfortable
- Temperature must be "reasonable"
  - Reasonable means at least 16°C for office work and 13°C where there is physical work
  - In very hot weather, employers only need to provide local cooling e.g. fans

#### Moving and Handling

- You may be asked to lift, carry push or pull a load at work
- You should always follow safe practice when doing any moving and handling
- You should never attempt to move anything that is too heavy or difficult - ask for help
- · Employers should provide equipment to help you to move heavy or difficult loads



#### Enforcement

- Inspectors from the Health and Safety Executive (HSE)
- Manufacturers; schools and colleges; repairers; specialist places like hospitals and power stations
- Environmental Health Officers
  - Places where the public go like shops, offices. leisure facilities
- Fire Officers
- just enforce the bits relating to fire safety

Crown court serious offences Magistrate's court Unlimited fines £20,000 per offence

· Up to 6 months in prison · Imprisonment for up to 2 years

#### Accidents at work

- All accidents, however minor, should be reported to your supervisor
- · Similarly, all incidents of ill-health (caused from work) should also be reported
- · Accidents include those that resulted in injury or damage and "near misses" - those which COULD have resulted in injury or damage
- Your supervisor will decide if the incidents needs to be recorded in the accident records
- Violent incidents are included (this includes verbal threats)

#### COSHH

#### SUBSTANCES COVERED BY COSHH:

- 1. Chemicals including cleaning chemicals
- 2. Micro-organisms
- 3. Dusts
- 4. Medicines, pesticides, gases
- COSHH HSE list (Health and safety executive) 5.





#### Employees responsibilities under COSHH

- 1. Use control measures and facilities provided by the employer
- 2. Ensure equipment is returned and stored properly
- 3. Repor defects in control measures
- 4. Wear and store personal protective equipment (PPE)
- 5. Removing PPE that could cause contamination before eating or drinking
- 6. Proper use of washing, showering facilities when reauired
- 7. Maintaining a high level of personal hygiene
- 8. Complying with any information, instruction or training that is provided

#### Duties of employees HASAWA

- · To take care of themselves and others
- To follow safety advice and instructions
- Not interfere with any safety device
- To report accidents
- To report hazards and risks





What you need to know

- Make sure there are toilets, places to wash and drinking water for workers Make sure that there is first aid provision · Provide PPE for jobs if needed
  - Have insurance to cover injury or illness at work
  - Ventilation lighting and emergency exits

provide a health and safety law poster entitled "Health and Safety law: What you should know" displayed in a prominent position and containing details of the enforcing authority.

- It is compulsory to contact the H.S.E if an operative has an absence of more than three days following an

# LEVEL 1 / 2 AWARD IN HOSPITALITY AND CATERING unit 1

BST A

#### First Aid

- · Employers have to provide first aid facilities at work
- · As a minimum, there should be a fully stocked green first aid box and a person appointed to take charge in an emergency
- Some workplaces have gualified first aiders and first aid rooms
- Green and white notices should inform you where the first aid box is kept and who the first aider(s) or appointed person(s) is/are



COSHH essentials for production and use of f
The Cardeni of Salah Restriction to Nation Provide the Control of Salah Provide Salah Sala

Every substance that is a hazard has a COSHH safety sheet



This sheet deals with opening. tipping sieving flour and making Why could this be

## AO1 Understand the environment in which hospitality and catering providers operate

# Possible health problems

#### Contact causing irritation 1.

- 2. Sensitising substances Toxic fumes 3.
- Carcinogenic 4.
- 5. Infectious
- 6. Fire, explosion
- Environmental harm problems 7.



hazard to you if you only wash up once a day but if you washed up for long periods of time as part of your job it could become an irritant or hazard

#### Employers responsibilities under COSHH

- 1. Implement control measures to protect workers from hazardous substances.
- 2. Preventing or controlling exposure to hazardous substances.
- 3. Providing employees with information, instruction and training, and appropriate protective equipment
- 4. Ensuring that control measures are maintained, kept in full working order, and in a clean condition
- 5. Drawing up plans and procedures to deal with accidents and emergencies involving hazardous substances.
- 6. Ensuring that any employees exposed to hazardous substances whilst at work are under suitable health surveillance.
- Carrying out a COSHH risk assessment.

#### Common substances and controls

Wear gloves

Face mask

· Extractors over cookers

Cleaning chemicals Washing up liquid

.....

- Cooking fumes
- Smoke
- Oils • Gas





#### What is RIDDOR?

- · RIDDOR is the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013.
- The law requires employers and other people in control of work premises (known as the 'responsible person') to report to the Health and Safety Executive (HSE) and keep records of the following:
- work related fatalities
- work related accidents causing certain serious injuries (known as reportable injuries)
- certain work related diagnosed occupational diseases

#### Who should report an Accident

- 1. An employer or person in charge of the premises
- A self employed person
- 3. A member of the public
- An injured person or their representative



## Prevention of Falls

- Employers must ensure that any working areas above the ground or below (e.g. inspection pits) are guarded or protected
- · If you have to work above ground level you must be kept safe e.g. by wearing a safety harness if it is an area such as a flat roof which is not guarded
- Stepladders should only be used for jobs that do not take long and they must be safe and stable when in use
- Slips prevention with non slip floors or shoes

# COSHH symbols on containers



### Fire safety

- · Employers must have arrangements in place to prevent fires
  - · To raise the alarm
  - To fight fires (fire extinguishers)
  - · Emergency evacuation (including a pre-arranged meeting place for staff to assemble following evacuation)
- · Notices showing the safe evacuation routes from buildings should be green and white



#### Employees responsibilities under COSHH

- 1. Use control measures and facilities provided by the emplover
- Ensure equipment is returned and stored properly 2.
- 3. Repor defects in control measures
- Wear and store personal protective equipment (PPE) 4.
- 5. Removing PPE that could cause contamination before eating or drinking
- 6. Proper use of washing, showering facilities when required
- 7. Maintaining a high level of personal hygiene
- 8. Complying with any information, instruction or training that is provided

- This is a safety data sheet for Fairy washing up liquid.

525 - Anniel constant with spins. 528 - Wear epishics protection

Safety data sheet It may not be a

# LEVEL 1 / 2 AWARD IN HOSPITALITY AND CATERING unit 1

#### What must be reported

- · An accident is a separate, identifiable, unintended incident that causes physical injury.
- · Also includes acts of violence to people at work.
- · Not all accidents need to be reported, a RIDDOR report is required only when the accident is workrelated:
- and it results in an injury of a type which is reportable When deciding if the accident that led to the death or injury is work-related.
- . the way the work was organised, carried out or supervised;
- · machinery, substances or equipment used for work;

#### What records need to kept?

If you do not keep a copy of the online form your records must include :

- the date and method of reporting;
- the date, time and place of the event; personal details of those involved;
- · and a brief description of the nature of the event or disease.

Record other accidents resulting in injuries where a worker is absent from work or is incapacitated for more than 3 days.

#### What has to be reported to HSE

- Death
- Injuries resulting in over 7 days off work (7 day injuries)
- · fractures (except fingers, thumbs and toes);
- · amputation of limbs or digits
- · loss or a reduction of sight;
- crush injuries
- serious burns (over 10%)
- · unconsciousness caused by a head injury or asphyxia;
- any other injury needing admittance to hospital for more than 24 hours.Hypothermia

### Occupational diseases

- carpal tunnel syndrome
- · severe cramp of the hand or forearm
- occupational dermatitis
- · hand-arm vibration syndrome
- occupational asthma
- · tendonitis or tenosynovitis of the hand or forearm
- · any occupational cancer
- any disease attributed to an occupational exposure to a biological agent.

# AO1 Understand the environment in which hospitality

#### and catering providers operate

#### Personal Protective Equipment at Work Regulations 1992 (PPER)

- PPE is equipment that will protect the user against health or safety risks at work. Includes clothing and other items worn by staff to protect themselves from work hazards
- It can include items such as Gloves, goggles, hard hats, hearing protectors, warm clothing (in cold conditions), safety shoes or boots, respirators etc
- Hearing protection and respiratory protective are not covered by these Regulations there are specific regulations that apply to them. these items need to be compatible with any other PPE provided.

#### Employees responsibilities under PPER

- · You must wear the p.p.e. if it has been provided for you. You could be held personally liable if you had an accident which could have been prevented by you wearing your p.p.e.;
- You must care for it, store it and clean it as necessary;
- · You must report any defects.

#### PPE in catering situations

The requirements are set out in the **PPE Regulations** 1992. In addition, the Food Safety (General Food Hygiene) Regulations 1995 require every person working in a food handling area to wear suitable, clean, and (where appropriate) protective clothing.

- non-slip shoes where there is a slipping risk;
- 100% cotton garments (for example, chefs' whites) where there is a risk that the material may aggravate burns in the event of a fire
- · where caustic cleaning substances are used, longsleeved vinyl gloves, goggles, a visor and possibly respiratory equipment.

#### PPE in catering situations



#### Employers responsibilities under PPER

- Provide the PPE (free) if a risk assessment has shown it to be necessary
- · It must be exclusively for you and fit you comfortably
- Provide somewhere to store it
- · Provide facilities for it to be cleaned and maintained
- Replace it when necessary
- · Provide training (if necessary) in how to wear/use it properly

#### When selecting **PPF**

choose good quality products which are CE marked in accordance with the PPE Regulations 2002

■ choose equipment that suits the wearer – consider the size, fit and weight; you may need to consider the health of

- the wearer, eg if equipment is very heavy,
- let users help choose it, they will be more likely to use it.

#### Using and distributing PPE to your employees:

instruct and train people how to use it;

tell them why it is needed, when to use it and what its limitations are:

- never allow exemptions for jobs that 'only take a few minutes':
- if something changes check the PPE is still appropriate

This is most easily done by reporting online.

How do you report an accident

- · Alternatively, for fatal accidents or accidents resulting in specified injuries to workers only. you can phone 0345 300 9923.
- NB: A report must be received within 10 days of the incident.

An employer who fails to comply with RIDDOR may

· a fine not exceeding level five on the standard scale,

· Note: Accidents or incidents may have been caused

penalties for breaching other legislation may be

by breaches of other health and safety legislation. The

heavier than those for failing to comply with RIDDOR.

Not all reportable incidents will be investigated by HSE

All incidents should be analysed and lessons learned

currently £5,000 in a magistrate's court

· an unlimited fine in a Crown Court.

# Accidents are reported to the HSE Health and Safety Executive

Penalties

and shared

be liable on conviction to:

#### **GCSE Computer Science: Python Programming Commands**

Interacting with the user:	
Print a message	
print('Hello, world!')	
Print multiple values (of different types)	
<pre>ndays = 365 print('There are', ndays, 'in a year</pre>	•')
Asking the user for a string	
<pre>name = input('What is your name? ')</pre>	
Asking the user for a whole number (an integer)	
<pre>num = int(input('Enter a number: '))</pre>	

#### **Deciding between options:**

Decide to run a block (or not)	Are two values equal?
x = 3 if x == 3:	x == 3
print('x is 3')	${\ensuremath{\Delta}}$ two equals signs, not one
Decide between two blocks	Are two values not equal?
mark = 80	x != 3
<pre>if mark &gt;= 50:     print('pass')</pre>	Less than another?
else	x < 3
<pre>print('fail')</pre>	Greater than another?
Decide between many blocks	x > 3
mark = 80 if mark >= 65:	Less than or equal to?
<pre>print('credit') elif mark &gt;= 50:</pre>	x <= 3
<pre>print('pass') else:</pre>	Greater than or equal to?
print('fail')	x >= 3
•elif can be used without else	The answer is a Boolean:
•elif can be used many times	True or False

Repeating (Loops/Iteration)								
Repeat a block 10 times	Count from 0 to 9							
<pre>for i in range(10):     print(i)</pre>	range (10)							
Sum the numbers 0 to 9	up to, but not including, 10							
<pre>total = 0 for i in range(10):    total = total + i print(total)</pre>	Count from 1 to 10 range(1, 11)							
Repeat a block over a string	Count from 10 down to 1							
for c in 'Hello':	range(10, 0, -1)							
print(c)	Count 2 at a time to 10							
Keep printing on one line	range(0, 11, 2)							
<pre>for c in 'Hello':     print(c, end=' ')</pre>	Count down 2 at a time							
print('!')	range(10, 0, -2)							
Repeat a block over list (or st	ring) indices							
<pre>msg = 'I grok Python!' for i in range(len(msg)):     print(i, msg[i])</pre>								

#### String manipulation:

5

Compare two strings	Convert to uppercase
msg = 'hello'	msg.upper()
<pre>if msg == 'hello':     print('howdy')</pre>	also lower and title
Less than another string?	Count a character in a string
<pre>if msg &lt; 'n':     print('a-m')</pre>	msg.count('l')
<pre>print('a-m') else:</pre>	Replace a character or string
print('n-z')	<pre>msg.replace('l','X')</pre>
▲ strings are compared character at a time (lexicographic order) Is a character in a string?	Delete a character or string
	<pre>msg.replace('l','')</pre>
<pre>'e' in msg Is a string in another string?</pre>	Is the string all lowercase?
	msg.islower()
'ell' in msg	also isupper and istitle

# Variables:

Creating a variable celsius = 25 Using a variable celsius\*9/5 + 32 Whole numbers (integers): Addition and subtraction 365 + 1 - 2 Multiplication and divisio 25\*9/5 + 32 Powers (2 to the power of 2\*\*8 Convert integer to string str(365) Text (strings): Single quoted

'perfect'

Double quoted

"credit"

Multi-line

World!'''

Add (concatenate) strings 'Hello' + 'World'

# **GCSE** Computer Science

Keyword Python	Definition A high level programming	Keyword	Definition
Python	A nigh level programming	Drogramming	Three ways to write and build a
		Programming	Three ways to write and build a
	language that is easy to	Constructs	program:
	understand for humans as it		Sequence, Selection, Iteration
	contains words.		
Selection	Used to make decision in	Iteration	Repeating a program more than once.
(Uses IF, ELIF,	programs.	(Uses FOR or	
ELSE)		WHILE)	For loop (repeat a set number of
	Age=input("your age") If myage> 17:		times)
	print("old enough		Repeat code a set number of times
	to drive")		for num in range (5):
	Elif myage == 17:		print(num)
	print ("one		Nethile loop (non-optimus) the condition
	year!")		While loop (repeat until the condition
	else:		is met)
	<pre>print("too young")</pre>		<pre>while answer != "quit":     print(answer)</pre>
Data turaa	Data is stared as a type	Commonto	
Data types	Data is stored as a type.	Comments	Used by programmers to leave notes
	• Integer (whole number)		about the purpose of each section of
	• Real/float (decimal)		code.
	• Character (one letter)		# Ask user a question
	• String (text)		Question=input("How are
	Boolean (True or False)		you?")
	<ul> <li>Casting (convert data type)</li> </ul>		you. /
Arithmetic	• + / - *	Comparison	• == equal to
Operators	<ul> <li>% Modulus (finds the</li> </ul>	operators	• != not equal to
	remainder when two		<ul> <li>&gt; greater than</li> </ul>
	numbers are divided)		• >= greater than or equal to
	<ul> <li>** Exponent (finds a number</li> </ul>		• < less than
	to the power of another)		• <= less than or equal to
Variable	A value stored in memory that	Input and	print("Hello World")
	can be changed while the	Output	
	program is running. It is stored as		Myage=input("Enter age")
	a data type.		<pre>print("Your age:,", Myage)</pre>
Validation	Check if the data input is sensible	Errors	• Syntax error (error in the rules of
	Check digit: The last digit is		the language e.g. missing comma)
	checked to see if all others are		Logic error (Program runs but
	correct.		doesn't work as planned e.g.
	Format check: checking format		wrong operator)
	e.g. a date is dd/m/yyyy		
	Length check: amount of		
	characters.		
	Presence check: data is entered.		
	Range check: numbers fit into a		
	specified range.		

# Knowledge Organiser: Year 11 BTEC Dance



		The Ingredients of Dance (RADS)	
Unit title: Exploring the Performing Arts		<u>Relationships</u> WITH WHOM you are dancing with	
· · · ·	R	The interaction between a group of dancers	
Learning Aims:		Examples of relationships:	
A: Examine professional practitioners'		UNISON: Dancing the same action at the same time	
performance work <b>B:</b> Explore the interrelationships between		CANON: Dancing one after the other, creating an overlap or ripple effect	
constituent features of existing		Actions	
performance material		WHAT the body is doing	
Key words	Α	A movement	
		Six categories:	
Choreography - the making of a dance.		Gesture	
The dance		Locomotion/travel	
Choreographer - the creator of the dance		Elevation/Jump	
		Falling/Weight transference	
Motif - A series of dance actions put		Turning	
together to create a phrase		Stillness/Balance	
Improvisation - Making movements up on	D	Dynamics HOW the body is moving	
the spot		The force and speed of a movement	
<b>Bopotition</b> to perform an action again		Examples of different dynamics:	
<b>Repetition</b> - to perform an action again		Fast Slow	
Transitions - links between dance phrases		Sharp	
or sections		Mechanical	
	-	Explosive Space	
Stylistic feature - a characteristic	S	WHERE the body is moving	
technique that makes it stand out from other styles of Dance		The area around a dancer. This could be personal or general space	
other styles of Dance		Examples of space:	
Stimulus - something that inspires you to		LEVELS: The height of the action. E.g. High, medium and low	
create a dance.		FORMATIONS: Where the dancers stand in a shape.	
Manual attenuity. This was taken the former of			
Visual stimuli - This can take the form of pictures, sculptures, objects, patterns,		* * * *	
shapes.		X X X X X	
		DIRECTIONS: Where the dancers goes. E.g. forwards, backwards, right, left, up, down and diagonally	
Auditory - includes music which is the		<b>PATHWAYS:</b> The patterns created on the floor.	
most usual accompaniment for dances.			
Often the choreographer begins with a		く く ら	
desire to use a certain piece of music.			
Kinesthetic - It is possible to make a			

dance about movement itself.

Tactile - The smooth feel of a piece of velvet may suggest smoothness as a movement quality, which could then be used as the basis for a dance. The feel and flow of a full skirt may provoke turning, swirling, free flow movements which could then become the main impetus for the choreographer.

Ideational - Here the movement is stimulated and formed with the aim of conveying an idea or to tell a story.

**Contemporary dance -** Tends to combine the strong but controlled legwork of ballet with modern that stresses on the torso. It also employs contract-release, floor work, fall and recovery, and improvisation characteristics of modern dance.

Purposes of performance - To educate. To inform. To entertain. To celebrated. To challenge viewpoints, to provoke, to raise awareness.

#### Examples of Dance Relationships

UNISON - at the same time

CANON - one after each other

MIRROR IMAGE - dancers use the other side of the body to create a symmetrical effect

COMPLEMENTARY - movements that are similar but not exactly the same as your partner

CONTRAST - movements that have different dynamics or different shapes

CONTACT - where dancers lift, lean on or support one another

QUESTION AND ANSWER - movement response to another dancers' movement

COUNTERPOINT - dancers perform individual movement sequences at the same time

**REPETITION** - perform the original motif again

ACTION AND REACTION - a direct physical response/reaction to other dancers

**RETROGRADE** - perform the original motif backwards

FRAGMENTATION - an original motif is broken into separate parts and put into a random order

ACCUMULATION - This is like follow the leader, where one dancer begins a series of movements and other dancers join to all end at the same moment.

**FOREGROUND AND BACKGROUND** - This device is where one or more dancers perform the main material with the other dancers behaving rather like backing singers performing in the background with simpler material or repeated actions.

# Performance Skills

# TECHNICAL SKILLS (to do with the body)

POSTURE	The way the body is held when sitting, standing or lying.	
FLEXIBILITY	The range of movement around the joints	
CONTROL	Performing the movements with strength to hold positions and not fall out of them	
CO-ORDINATION	Moving two different body parts at the same time in opposite directions	
MOVEMENT MEMORY	Remembering the order of the movements	
SPATIAL AWARENESS	Knowing where you are in the space and not colliding with anyone	
STAMINA	Being able to keep high energy throughout without tiring	
STRENGTH	The force your muscles exert to hold a position for a long time	
BALANCE	Put weight on a specific part of the body without falling or wobbling	



EXPRESSIVE SKILLS (how you perform it)		
FOCUS         Use of the eyes looking in a specific direction		
PROJECTION         Extending the movement with energy		
MUSICALITY	Being in time with the beat in the music and the other dancers	
FLUIDITY	Smooth transitions from one movement to another to allow them to flow effectively together	
SENSE OF STYLE         This is about the dancer trying to emulate the distinctive actions and que of the dance		

# COMPONENT 1 BTEC TECH PERFORMING ARTS (ACTING)

### LEARNING AIM A

A write up consisting of the following criteria for <u>EACH</u> of the plays:

- Key characteristics
- Creative intentions and purpose (purpose of the play, target audience, themes, how themes are communicated in the play, context of play (political, social, historical)
- Synopsis of play
- Initial reactions after watching the play Production elements
- Link opinions and theories together with justifications as to why the director/writer/actor may have made particular choices

Roles and responsibilities of an actor/director/various designers **THEN** specific roles and responsibilities of an actor/director/designer that are tailor made for <u>EACH</u> of the plays

### LEARNING AIM B

## 1) The processes, techniques and approaches used by practitioners

- 1 Participate in workshop rehearsals in the style of each company
- 2 Recreate short snippets from the play using these techniques
- 3 Reflect on the roles and responsibilities of an actor and director from these workshops
- 4- Research the rehearsal time line of each play (from page to stage)

### 2) The interrelationships between constituent features

Interrelationships – the way in which two or more things are linked together

**Constituent features -** e.g. the script, performers involved, techniques used in performance and design (e.g. lighting, sound set) relationship between performer and audience etc

Play: Dead Dog in a Suitcase	Pla
Company: Kneehigh	Co
Genre: Epic Theatre	Ge
Rehearsal techniques:	Re
Games and fun	Da
Physical warm up	Vo
Key Features: Multi-roling	Rej
Multi use set	Key
Puppetry	Sto
Visible costume changes	Ch
Songs.	Hu
Stimulus: The Beggars Opera	Μι
A New York Urban Legend	Mi
	Sti

Play: Everybody's Talking About Jamie Company: The Crucible Theatre, Sheffield Genre: Book Musical Rehearsal techniques: Dance warm-up Vocal Warm-up Repetition Key Features: Story is told through song Choreography Humors Multi- use set Mixture of minimal and realistic set Stimulus: BBC3 Documentary about a teenage drag queen.

Play: Frankenstein Physical Theatre/ Naturalism Rehearsal techniques: Intense physical warm up Improvisation Repetition Key Features: Highly Physical Naturalistic acting Minimalistic set Stimulus: Mary Shelley's Frankenstein

# COMPONENT 3 BTEC TECH PERFORMING ARTS (ACTING)

Devise a performance in response to a stimulus provided by the exam board. Both parts of the task (written and performance) will be completed under supervision. There is a 12 week window for all parts to be completed. The component is marked out of 60.

Assessment objectives

**AO1** - **Understand how to respond to a brief.** Discuss and practically **<u>EXPLORE</u>** the stimulus considering: target audience, performance space, planning and managing resources, running time and style of work.

Develop ideas considering: structure of work, style and genre used, skills required, creative intentions.

Work effectively as a member of the group making an individual contribution and responding to the contribution of others.

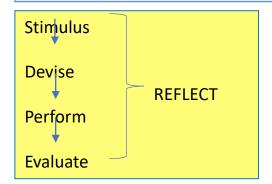
AO2 – Select and develop skills and techniques in response to a brief. Demonstrate <u>HOW</u> to select and develop skills and techniques that are needed for the performer and whole group and take part in the rehearsal process.

AO3 – Apply skills and techniques in a workshop performance in response to a brief Contribute to a workshop performance using: vocal, physical and interpretative skills. (18 marks) This performance will last

AO4 – Evaluate the development process and outcome in response to a brief Evaluate the process and performance. Consider: the brief, stimulus and contribution from other group members. Reflect on: selection of skills used, individual strengths/areas for improvement, overall and individual contribution to the group, impact of the groups work.

### Key vocabulary

Target audience – who you will perform to and why Performance space – choosing where the performance will take place if not on the stage and why Running time – length of the performance Style of work – genre or practitioner who will influence your work Vocal skills – ability to adapt voice to suit a character Physical skills – movement, gestures, body language, facial expressions Interpretative skills – presenting yourself to the audience and creating emotion **Commitment** – how much effort you put in individually and as a group Rehearsal – practicing the performance Blocking – deciding where an actor should stand Performance – Showing of the piece of work to the target audience Evaluate – identify strengths and areas for improvement of both the rehearsal and performance Characterisation - creating a character through your movement and dynamic choices



# **YR 11 Engineering KNOWLEDGE ORGANISER – R105, R106,** R107,R108

In Design & Technology you are assessed on both the Practical and Theory work.

#### R105: Design briefs, design specifications and user requirements

Students explore the requirements of design briefs and specifications for the development of new products and how consumer requirements and market opportunities inform these briefs. They develop their understanding of the design cycle, the requirements for a design brief and design specification, and the importance of research data in developing a design solution. **EXAMINATION** 

#### **R107:** Developing and presenting engineering designs

Students develop their knowledge and skills in communicating 2D and 3D design ideas, including effective annotation and labelling. They use detailed hand rendering as well as computer-based presentation techniques and computeraided design (CAD) software

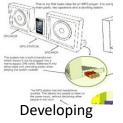
# WORDS AND KEY TERMS FOR THIS PROJECT

### **Design cycle**

IDENTIFY - Brief, research, process planning DESIGN – Specification, plan, manufacturing plan **OPTIMISE** – Prototyping, error proofing VALIDATE – Test, evaluate

### Scenario for the Assignment

A new portable docking station is to be produced for use with MP3 devices or phones



#### CAD Developing

#### Coursework (R107) will involve;

Sketching, developing ideas using CAD, Isometric and Orthographic projections of design drawn correctly by hand. All work must be annotated, labelled or dimensions added.

#### R106: Product analysis and research

Students find out how to perform effective product analysis through both research and practical experience of product assembly and disassembly procedures. This helps them develop skills in critical analysis and an understanding and appreciation of manufacturing processes, design features, materials used and the principles behind good design.

#### R108: 3D design realisation

Students produce a model prototype and test design ideas in a practical context. They evaluate the prototype against the product specification and consider potential improvements to features, function, materials, aesthetics and ergonomics in the final product

#### The specification given by OCR for the product is;

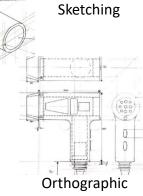
- Where will the batteries be put/accessed
- How will they be secured
- •Where will the jack lead/plug be positioned
- •2 Speakers size, shape, design, position
- •On/off switch/button
- Power indicator (light)
- How will you control volume
- What materials will it be made from
- How will it be manufactured
- Can you access components

#### **R107** Developing and presenting engineering designs

Learning Outcome 1 Be able to generate design proposals using a range of techniques

Learning Outcome 2 Know how to develop designs using engineering drawing techniques and annotation

Learning Outcome 3 Be able to use Computer Aided Design (CAD) software and techniques to produce and communicate design proposals



Isometric



# **YR 11 Engineering KNOWLEDGE ORGANISER – R105, R106,** R107,R108

In Design & Technology you are assessed on both the Practical and Theory work.

#### R105: Design briefs, design specifications and user requirements

Students explore the requirements of design briefs and specifications for the development of new products and how consumer requirements and market opportunities inform these briefs. They develop their understanding of the design cycle, the requirements for a design brief and design specification, and the importance of research data in developing a design solution. **EXAMINATION** 

#### **R107:** Developing and presenting engineering designs

Students develop their knowledge and skills in communicating 2D and 3D design ideas, including effective annotation and labelling. They use detailed hand rendering as well as computer-based presentation techniques and computeraided design (CAD) software

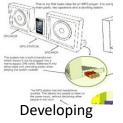
# WORDS AND KEY TERMS FOR THIS PROJECT

### **Design cycle**

IDENTIFY - Brief, research, process planning DESIGN – Specification, plan, manufacturing plan **OPTIMISE** – Prototyping, error proofing VALIDATE – Test, evaluate

### Scenario for the Assignment

A new portable docking station is to be produced for use with MP3 devices or phones



#### CAD Developing

#### Coursework (R107) will involve;

Sketching, developing ideas using CAD, Isometric and Orthographic projections of design drawn correctly by hand. All work must be annotated, labelled or dimensions added.

#### R106: Product analysis and research

Students find out how to perform effective product analysis through both research and practical experience of product assembly and disassembly procedures. This helps them develop skills in critical analysis and an understanding and appreciation of manufacturing processes, design features, materials used and the principles behind good design.

#### R108: 3D design realisation

Students produce a model prototype and test design ideas in a practical context. They evaluate the prototype against the product specification and consider potential improvements to features, function, materials, aesthetics and ergonomics in the final product

#### The specification given by OCR for the product is;

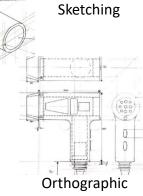
- Where will the batteries be put/accessed
- How will they be secured
- •Where will the jack lead/plug be positioned
- •2 Speakers size, shape, design, position
- •On/off switch/button
- Power indicator (light)
- How will you control volume
- What materials will it be made from
- How will it be manufactured
- Can you access components

#### **R107** Developing and presenting engineering designs

Learning Outcome 1 Be able to generate design proposals using a range of techniques

Learning Outcome 2 Know how to develop designs using engineering drawing techniques and annotation

Learning Outcome 3 Be able to use Computer Aided Design (CAD) software and techniques to produce and communicate design proposals



Isometric



Know these words for listening and reading	
Negatives	The
ne pas – not	und
ne rien – nothing	abl
ne plus - no longer	
ne jamais – never	que
ne personne – nobody	Cor
ne guère – hardly	Est
ne que – only	(sta
ne nini – neither/ either nor/ or	Lec

# Game changers

avec - with sans - without sauf – except déjà – already

<u>Contrasting connectives</u> mais - but cependant - however pourtant - however par contre – on the other hand bien que\_– although

#### <u>Synonyms</u>

rentrer/ retourner – to return le travail/ le boulot – work habiter/ vivre – to live

la nourriture/ l'alimentation – food

parler/ bavarder – to talk

laid/ moche – ugly

casse-pieds/ embêtant – annoying

stupide/ bête - stupid

amusant/marrant/drôle/rigolo-funny

	re key to you
	anding and being
	respond to
questio	ns in French.
~	
	nt – How
•	ue – do/does
(starts a	question)
Lequel/	laquelle – which
Où - wh	ere
Pourque	oi - why
Quand	- when
Qu'est-o	ce que - what
Qui - wł	וס

	ALSO REFER TO THE
_	
F	OLLOWING RESOURCES
	AS PART OF YOUR
	<b>REVISION AND</b>
	PREPARATION
1	ROLE PLAY BOOKLET
2	PHOTO CARD BOOKLET
3	CONVERSATION
	MODEL ANSWERS
4	LISTENING BOOKLET &
	KERBOODLE
5	TOPIC BASED
	VOCABUALRY BOOKLET

<u>Useful stru</u>	ctures when writing and speaking French
Après avoir + past particple after having	Après avoir mangé, j'ai lu. After having eaten, I read.
Après être + past particple <i>after having</i>	Après être rentré(e), j'ai mangé. After having returned home, I ate.
Avant de before	Avant de sortir, j'ai fait mes devoirs. Before going out, I did my homework.
Ayant <i>having</i>	Ayant faim, j'ai mangé une pizza. Having hunger, l ate a pizza.
Étant <i>being</i>	Étant très fatigué(e), je suis allé(e) au lit. Being very tired, I went to bed.
J'ai décidé de I decided to	J'ai décidé d'étudier l'anglais. I've decided to study English
J'ai toujours aimé <i>I've always liked</i>	J'ai toujours aimé la culture française. I've always loved French culture.
J'ai toujours rêvé de l've always dreamed of	J'ai toujours rêvé de visiter le Japon. <i>I've always dreamed of visiting Japan.</i>
Je dois <i>I must</i>	Je dois faire mes devoirs. I must do my homework.
Je peux <i>I can</i>	Je peux sortir le weekend. I can go out at the weekend.
Je veux <i>I want</i>	Je veux aller à un concert. I want to go to a concert.
J'espère I hope	J'espère aller à l'université. I hope to go to university.
Je me passionne pour I've a passion for	Je me passionne pour la musique. I've a passion for music.
On m'a dit que <i>I've been told that</i>	On m'a dit que c'est un pays incroyable. I've been told that it's an incredible country.
moinsque lessthan	Il est moins bavard que moi. He is less chatty than me.
plusque <i>morethan</i>	L'histoire est plus facile que les sciences. History is more easy than science.
Pronouns (it, them etc.)	Je le trouve intéressant. I find him/it interesting
Si, present, future <i>If</i>	Si j'ai de bonnes notes, je vais aller au lycée. If I get good marks, I'm going to go to college.
Si, imperfect, conditional <i>If</i>	Si j'étais riche, j'irais en Australie. If I were rich, I would go to Australia.

#### Describing a photo in speaking or writing.

#### To start off:

Dans l'image	In the image
Dans la photo	In the photo
II y a	There is/ are
Je vois	I see
Je peux voir	You can see
La photo montre	The photo shows

#### **Be specific!**

Au premier plan...In the foregroundAu deuxième plan...In the backgroundÀ gauche...to the leftÀ droite...to the rightPrès de..close toDevant..In front of

#### Weather

Il y a du soleil	it's sunny
II fait beau	it's nice weather
Il fait mauvais	It's bad weather
ll pleut	it's raining
ll y a du vent	it's windy

#### What's there?

un homme/une femme a man/woman un garçon a boy une fille a girl un enfant a child des personnes some people beaucoup de personnes lots of people des édifices some buildings des arbres some trees

#### Describing people

II/elle a l'air ...he/she seems...IIs/elles ont l'air...they seem...II/elle est...he/she is...IIs/elles sont...they are...content(e)(s)happyénervé(e)(s)angryfatigué(e)(s)tiredtriste(s)sad

#### **Opinion phrases**

Je crois que... I think that Je pense que... I think that... J'imagine que... I imagine that... Je suppose que... I suppose that... Je dirais que... I would say that II me semble que.. It seems to me that..

#### Using verbs TOP TIP!

If you are unsure of the correct form of the verb, learn the following phrases then add on any infinitive you need. Il est / Elle est **en train de...** Ils sont/ Elles sont **en train de...** 

e.g. Il est en train de manger He is (in the process of) eating. Elles sont en train de jouer... They are (in the process of) playing...

#### Know your key verbs in differnent tenses. Infinitive Present tense Perfect tense Future tense Signposts: Can be used after: Signposts: Signposts: Normalement -opinions Hier Demain e.g. j'aime... D'habitude Hier soir Ce soir -conditional Quelquefois Le weekend dernier Le weekend prochain e.g. je voudrais... Le weekend La semaine dernière La semaine prochaine -future Tous les lundis L'année dernière L'année prochaine Après le L' été dernier e.g. je vais... Cet été collège acheter to buy J'achète J'achèterai J'ai acheté aller to go Je vais l'irai Je suis allé J'ai J'aurai J'ai eu avoir to have Je bois Je boirai J'ai bu boire to drink J'écoute J'écouterai J'ai écouté écouter to listen to Je fais J'ai fait faire to do. make Je ferai Je joue J'ai joué jouer to play Je jouerai Je lis Je lirai J'ai lu lire to read J'ai mangé manger to eat Je mange Je mangerai J'ai porté porter to wear Je porte Je porterai regarder to watch Je regarde Je regarderai J'ai regardé Je suis resté (e) rester to stay Je reste Je resterai Je sors Je sortirai Je suis sorti(e) sortir to go out Je travaille J'ai travaillé travailler to work Je travaillerai

## YEAR 11 TERMS 3 & 4

What is a	n Ecosystem?	? Biome's climate and plants							
An ecosystem is a system in which organisms interact with each other and		other and Biome	Location	Temperature	Rainfall	Flora	Fauna		
with their environment. Ecosystem's Components		Tropical rainforest	Centred along the Equator.	Hot all year (25-30°C)	Very high (over 200mm/year)	Tall trees forming a canopy; wide variety of species.	Greatest range of different animal species. Most live in canopy layer		
Abiotic Biotic	These are <b>non-living</b> , such as air, water, heat and rock These are <b>living</b> , such as plants, insects, and animals.	Tropical grasslands	Between latitudes 5°- 30° north & south of Equator.	Warm all year (20-30°C)	Wet + dry season (500-1500mm/year)	Grasslands with widely spaced trees.	Large hoofed herbivores and carnivores dominate.		
L,	Flora Plant life occurring in a particular region of Animal life of any particular region or time		Found along the tropics of Cancer and Capricorn.	Hot by day (over 30°C) Cold by night	Very low (below 300mm/year)	Lack of plants and few species; adapted to drought.	Many animals are small and nocturnal: except for the camel.		
	Food Web and Chains	Temperate forest	Between latitudes 40°- 60° north of Equator.	Warm summers + mild winters (5-20°C)	Variable rainfall (500- 1500m /year)	Mainly deciduous trees; a variety of species.	Animals adapt to colder and warmer climates. Some migrate.		
Simple food chains are useful in explaining the basic principles behind ecosystems. They show	nciples <b>Tundra</b> ey show	Far Latitudes of 65° north and south of Equator	Cold winter + cool summers (below 10°C)	Low rainfall (below 500mm/ year)	Small plants grow close to the ground and only in summer.	Low number of species. Most animals found along coast.			
Snoke	only one species at a particular trophic level. <b>Food webs</b> however consists of a network of many foo chains interconnected together.	s however f many food Coral Reefs	Found within 30° north – south of Equator in tropical waters.	Warm water all year round with temperatures of 18°C	Wet + dry seasons. Rainfall varies greatly due to location.	Small range of plant life which includes algae and sea grasses that shelters reef animals.	Dominated by polyps and a diverse range of fish species.		
Nutrient cy	ycle	Unit 1	Geog	raphy A					
organic ma animals ea soil when a	<ul> <li>in nutrients to build into new atter. Nutrients are taken up when t plants and then returned to the animals die and the body is broken ecomposers.</li> <li>This is the surface layer of vegetation, which over time breaks down to become humus.</li> <li>The total mass of living</li> </ul>	Plant uptake Soll yange Soll yange Yeethe Tropical rai	Pond ecosystem         Can you connect these living organisms together?         Midge Larva         Algae         Can you connect these living organisms together?						
	organisms per unit area.	of parel rock	Interdependence in the rainforest						
which are a	a large geographical area of distinctive plant and anima adapted to that particular environment. The climate and determines what type of biome can exist in that region.	al groups, animals dep	t works through <b>interdepen</b> e <b>nd on each other</b> for surviv n be <b>serious knock-up effect</b>	val. If one component chang	ges, there	Perch What does each need to exist that <u>is not</u> on the board?			
orarcgion		Coniferous	Arctic Ocean Dis	stribution of Tropical Rainfores					
forest Deciduous forest Tropical rainforests Tundra		Deciduous Atlantic	Pacific Ca	opical rainforests are <b>centred along the</b> <b>uator</b> between the Tropic of Cancer and pricorn. Rainforests can be found in South		Canopy Most	t layer with trees reaching 50 metres. ife is found here as It receives 70% of nlight and 80% of the life.		
		- I on you	Indian The			U-Canopy Consis	ts of trees that reach <b>20 metres high.</b>		
		Rain	Arr				t layer with <b>small trees</b> that have ed to living in the <b>shade.</b>		
Temperate Forest Desert Senda Taipa Boxeal forest Castand Senana Tropical Gressland Senana Tropical Gressland Gressland Gressland Gressland Gressland Gressland Gressland	Temperate grasslands	Temperate grasslands The hot, damp	Rainforest nutrient cycle The hot, damp conditions on the forest floor allow for the rapid decomposition of dead plant material. This provides plentiful		Climate of Tropical Rainforests • Evening temperatures rarely fall below 22°C. • Due to the presence of clouds, temperatures rarely				
	productive biomes – which have the greatest grow in climates that are hot and wet.	Tropical grasslands nutrients that a nutrients are in they do not ren	re easily absorbed by plant roots high demand from the many fas hain in the soil for long and stay of removed, the soils quickly becon	s. However, as these it-growing plants, close to the surface.	<ul> <li>rise above 32°C.</li> <li>Most afternoons have heavy showers.</li> </ul>				

- At night with no clouds insulating, temperature drops.

#### **Tropical Rainforests: Case Study Malaysia**



**0** 

Agriculture

•

•

•

•

٠

•

Uncontrolled and unchecked exploitation can cause irreversible damage such

Agro-forestry - Growing trees and crops at the same time. It prevents soil

Selective logging - Trees are only felled when they reach a particular

Education - Ensuring those people understand the consequences of

Ecotourism - tourism that promotes the environments & conservation

**Road Building** 

Tourism

Large scale 'slash and burn' of

Increases carbon emission.

increasing due to the large

Increase in palm oil is making

Mass tourism is resulting in the

building of hotels in extremely

Lead to negative relationship

between the government and

Tourism has exposed animals

Roads are needed to bring

supplies and provide access to

new mining areas, settlements

In Malaysia, logging companies

roads for heavy machinery and

use an extensive network of

areas of exposed land.

the soil infertile.

vulnerable areas.

indigenous tribes

to human diseases.

and energy projects.

to transport wood.

land for ranches and palm oil.

River saltation and soil erosion

Malaysia is a LIC country is south-east Asia. 67% of Malaysia is a tropical rainforest with 18% of it not being interfered with. However, Malaysia has the fastest rate of deforestation compared to anywhere in the world

Adaptations to the	ne rainforest		Rainforest inhabitants	
Orangutans	Large arms to swing & supp	ort in the tree canopy.	Many tribes have developed sustainable ways of	
Drip Tips	Allows heavy rain to <b>run off</b>	leaves easily.	<ul> <li>survival. The rainforest provides inhabitants with</li> <li>Food through hunting and gathering.</li> </ul>	
Lianas & Vines	Climbs trees to reach sunlig	ht at canopy.	<ul> <li>Natural medicines from forest plants.</li> <li>Homes and boats from forest wood.</li> </ul>	
Issues related to biodiversity		What are the causes o	f deforestation?	

Logging

•

#### What are the causes of deforestation

Most widely reported cause of

destructions to biodiversity.

commercial items such as

furniture and paper.

companies.

**Mineral Extraction** 

the rainforest.

Timber is harvested to create

Violent confrontation between

indigenous tribes and logging

Precious metals are found in

and water contamination.

Indigenous people are

· The high rainfall creates ideal

conditions for hydro-electric

The Bakun Dam in Malaysia is

key for creating energy in this

developing country, however,

both people and environment

as loss of biodiversity, soil erosion and climate change.

erosion and the crops benefit from the nutrients.

Afforestation - If trees are cut down, they are replaced.

Forest reserves - Areas protected from exploitation.

Sustainability for the Rainforest

Possible strategies include:

height.

deforestation

transport products.

**Energy Development** 

power (HEP).

have suffered.

Areas mined can experience soil

becoming displaced from their

land due to roads being built to

- Warm and wet climate encourages a wide range of vegetation to grow.
- There is rapid recycling of nutrients to speed plant growth.

Why are there high rates of biodiversity?

- Most of the rainforest is untouched.
- Main issues with biodiversity decline
- Keystone species (a species that are important of other species) are extremely important in the rainforest ecosystem. Humans are threatening these vital components.
- Decline in species could cause tribes being unable to survive.
- Plants & animals may become extinct.
- Key medical plants may become extinct.

#### Impacts of deforestation

#### Economic development

- + Mining, farming and logging creates employment and tax income for government.
- + Products such as palm oil provide valuable income for countries.
- The loss of biodiversity will reduce tourism.

#### Soil erosion

- Once the land is exposed by deforestation, the soil is more vulnerable to rain. - With no roots to bind soil together, soil can easily wash away.

#### **Climate Change**

- -When rainforests are cut down, the climate becomes drier.
- -Trees are carbon 'sinks'. With greater deforestation comes more greenhouse emissions in the atmosphere.
- -When trees are burnt, they release more carbon in the atmosphere. This will enhance
- the greenhouse effect.

Hot Desert: Case Study Thar Desert – India/Pakistan



hot desert ecosystem

are closely linked

together and depend on

each other, especially in

a such a harsh

environment.

80

60

The Thar Desert is located on the border between India and Pakistan in Southern Asia. With India soon becoming the most populated country in the world in the next five years. With this, more people will plan to live in the desert.

#### Distribution of the world's hot deserts

Most of the world's hot deserts are found in the subtropics between 20 degrees and 30 degrees north & south of the Equator. The Tropics of Cancer and Capricorn run through most of the worlds major deserts.

Hot Deserts inhabitants

- People often live in large

- Food is often cooked slowly

- Head scarves are worn by

men to provide protection

open tents to keep cool.

in the warm sandy soil.

Small surface

evaporation

Stems that

can store w

Widespread root system

area minimises

from the Sun.



- Major characteristics of hot deserts
- Aridity hot deserts are extremely dry. with annual rainfall below 250 mm.
- Heat hot deserts rise over 40 degrees. Landscapes - Some places have dunes, but most are rocky with thorny bushes.



- Temperate are hot in the day (45 °C) but are cold at night due to little cloud cover (5 °C).
- In winter, deserts can sometimes receive occasional frost and snow.

#### J F M A M J J A S O N D Adaptations to the desert Desert Interdependence Large roots to absorb water soon after Different parts of the

10

Challenges

High evaporation rates from irrigation canals and

increasing number of people moving into area.

The extreme heat makes it difficult to work outside for

Water supplies are limited, creating problems for the

Access through the desert is tricky as roads are difficult

- rainfall. Needles instead of leaves to reduce . surface area and therefore transpiration.
  - Hump for storing fat (NOT water). Wide feet for walking on sand.

very long.

farmland

to build and maintain.

Long eyelashes to protect from sand.

## **Opportunities and challenges in the Hot desert**

#### **Opportunities**

Spines instead

of leaves

- There are valuable minerals for industries and construction. Energy resources such as coal and oil can be found in
- the Thar desert. Great opportunities for renewable energy such as solar
- power at Bhaleri. Thar desert has attracted tourists, especially during • festivals.

#### **Causes of Desertification**

year.

Cactus

Camels

Desertification means the turning of semi-arid areas (or drylands) into deserts.

#### Fuel Wood

People rely on wood for fuel. This removal of trees causes the soil to be exposed.

#### **Over-Cultivation**

If crops are grown in the same areas too often, nutrients in the soil will be used up causing soil erosion.

**Climate Change** Reduce rainfall and rising temperatures have meant less water for plants.

#### Overgrazing

Too many animals mean plants are eaten faster than they can grow back. Causing soil erosion.

#### **Population Growth**

A growing population puts pressure on the land leading to more deforestation. overgrazing and over-cultivation.

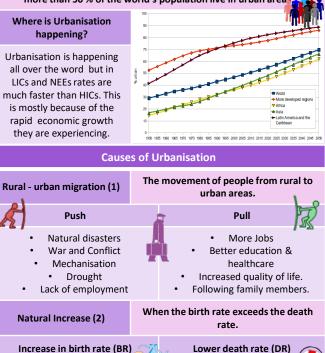
#### Water management - growing crops that don't need much water.

Strategies to reduce Desertification

- Tree Planting trees can act as windbreakers to protect the soil from wind and soil erosion.
- Soil Management leaving areas of land to rest and recover lost nutrients.
- Technology using less expensive, sustainable materials for people to maintain. i.e. sand fences, terraces to stabilise soil and solar cookers to reduce deforestation.

#### What is Urbanisation?

This is an increase in the amount of people living in urban areas such as towns or cities. In 2007, the UN announced that for the first time, more than 50 % of the world's population live in urban areas





Megacity An urban area with over **10 million people** living there.



High percentage of

population are child-bearing

age which leads to high

fertility rate.

Lack of contraception or

education about family

planning.

More than two thirds of current megacities are located in either NEEs (Brazil) and LICs (Nigeria). The amount of megacities are predicted to increase from 28 to 41 by 2030.

#### Sustainable Urban Living

Sustainable urban living means being able to live in cities in ways that do not pollute the environment and using resources in ways that ensure future generations also can use then.

future generations also can use then.						
Water Conservation	Energy Conservation					
<ul> <li>This is about reducing the amount of water used.</li> <li>Collecting rainwater for gardens and flushing toilets.</li> <li>Installing water meters and toilets that flush less water.</li> <li>Educating people on using less water.</li> </ul>	<ul> <li>Using less fossil fuels can reduce the rate of climate change.</li> <li>Promoting renewable energy sources.</li> <li>Making homes more energy efficient.</li> <li>Encouraging people to use energy.</li> </ul>					
Creating Green Space	Waste Recycling					
Creating green spaces in urban areas can improve places for people who want to live there. Provide natural cooler areas for people to relax in. Encourages people to exercise. Reduces the risk of flooding from surface runoff. Unit 2a Geogr	More recycling means fewer resources are used. Less waste reduces the amount that eventually goes to landfill. • Collection of household waste. • More local recycling facilities. • Greater awareness of the benefits in recycling.					
Urban Issues	& Challenges					
Background & Location	Sustainable Strategies					
Freiburg is in west Germany. The city has a population of about 220,000. In 1970 it set the goal of focusing on social, economic and environmental sustainability.	<ul> <li>The city's waste water allows for rainwater to be retained.</li> <li>The use of sustainable energy such as solar and wind is becoming more important.</li> <li>40% of the city is forested with many open spaces for recreation, clean air and</li> </ul>					

**Integrated Transport System** 

reducing flood risk.

This is the linking of different forms of public and private transport within a city and the surrounding area.

#### **Brownfield Site**

Brownfield sites is an area of land or premises that has been previously used, but has subsequently become vacant, derelict or contaminated.

Traffic Management

Urban areas are busy places with many people travelling by different modes of transport. This has caused urban areas to experience different traffic congestion that can lead to various problems.

so can use then.	•	lead to various problems.			
Energy Conservation	Environmental problems	I Gold Harden			
Using less fossil fuels can reduce the rate of climate change. Promoting renewable energy sources. Making homes more energy	<ul> <li>Traffic increases air pollution which releases greenhouse gases that is leading to climate change.</li> </ul>				
efficient.	Economic problems	Social Problems			
<ul> <li>Encouraging people to use energy.</li> </ul>	Congestion can make people late for work and business	• There is a greater risk of accidents and congestion is a			
Waste Recycling	deliveries take longer. This can cause companies to loose	cause of frustration. Traffic can also lead to health issues for			
More recycling means fewer	money.	pedestrians.			
resources are used. Less waste reduces the amount that	Congestion Solutions				
<ul> <li>collection of household waste.</li> <li>More local recycling facilities.</li> <li>Greater awareness of the benefits in recycling.</li> </ul>	<ul> <li>Build ring roads and bypasses to keep through traffic out of city centres. 2+ car share lane Bristol</li> <li>Introduce park and ride</li> </ul>				
aphy AQA <sup>C</sup>	<ul><li>schemes to reduce car use.</li><li>Encourage car-sharing schemes</li></ul>				
k Challenges	<ul> <li>in work places.</li> <li>Have public transport, cycle lanes &amp; cycle hire schemes.</li> <li>Having congestion charges</li> </ul>				
g Example: Freiburg	discourages drivers from entering the busy city centres.				
Sustainable Strategies	Traffic Management Example: Bristol				
• The city's waste water allows for rainwater to be retained.	In 2012 Bristol was the most congested city in the UK. Now the				

city aims to develop it's integrated

transport system to encourage more people to use the public

transport. The city has also invested in cycle routes and hiring schemes.

And the new Metrobus (linking

north and south Bristol?

**Greenbelt** Area

This is a zone of land surrounding a city where new building is strictly controlled to try to prevent cities growing too much and too fast.

#### **Urban Regeneration**

The investment in the revival of old, urban areas by either improving what is there or clearing it away and rebuilding.

#### Urban Change in a Major UK City: Bristol Case Study

#### **Location and Background**



Impacts of national and international migration on the character of the city

Migrants contribute taxes towards the economy of Bristol, supporting public service (schools, waste disposal, roads, sewage system).

Migrants mainly work in the low paid, unskilled jobs that Bristolians do not want to do eg restaurants and hotels.

Pressure on house prices means that the average rent in Bristol is £800 and the average house price is £514,000.

Due to migration Bristol is a multicultural city with many cultural festivals – such as St Paul's Carnival

#### Urban change has created challenges

Social: Inner city Bristol still suffer from dereliction – Stoke's Croft and the Harbourside following the decline of industry. Inequalities in health- high rates of obesity and cancer in Filwood due to lack of income and education

Economic: In parts of the city deprivation is high. Filwood is in the top 10% of most deprived areas in England.

Environmental: Bristol is the most congested city in England. Urban sprawl has lead to more congestion and loss of the countryside (Bradley Stoke)



- 8<sup>th</sup> most popular city for foreign visitors
- Has the largest concentration of silicon chop manufacturing companies outside California.
- Two big universities with good reputations
   Bristol and UWE.
- Situated on the junction of the M\$ and M5 with easy access to London, Wales, and Birmingham

How urban growth has created city's opportunities

Social: 2 large footballs teams, 1 rugby team and major cricket ground. Great Shopping opportunities – Cribbs Causeway and Cabot Circus. Bristol Hippodrome welcomes west end musicals regularly

**Economic:** 50 electronic and IT companies have been attracted to Bristol in recent years. Big employers such as Airbus, Rolls Royce and Lloyds TSB have their HQs in Bristol

Environmental: Bristol has 300 parks and 1/3 of the city is set aside for open space. In 2015 Bristol was awarded European Green Capital. It was heralded for its commitment to clean transport and energy, and its role as a low-carbon hub of industry.

#### **Bristol Harbourside urban regeneration**

Why was it needed: The old Harbour was once thriving and busy but the River Avon was too narrow and tidal for boats to fit down. SO the port moved to Avonmouth

Main features: Brownfield sites and derelict buildings pulled down, replaced with office blocks, apartments, museums, restaurants and pubs.

3000 jobs created from a £300 million investment. BUT

High cost of property – av price £600,000 and the area would suffer in a recession.

Urban Change in a Major NEE City: RIO DE JANEIRO Case Study

BRAZIL

#### Location and Background



#### Migration to Rio De Janeiro

The city began when Portuguese settlers with slaves arrived in 1502. Since then, Rio has become home to various ethnic groups.

However, more recently, millions of people have migrated from rural areas that have suffered from drought, lack of services and unemployment to Rio. People do this to search for a better quality of life.

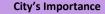
This expanding population has resulted in the rapid urbanisation of Rio de Janeiro.

#### **City Challenges**

Social: There is a severe shortage of housing, schools and healthcare centres available. Large scale social inequality, is creating tensions between the rich and poor.

Economic: The rise of informal jobs with low pay and no tax contributions. There is high unemployment in shanty towns called Favelas

Environmental: Shanty towns called Favelas are established around the city, typically on unfavourable land, such as hills. Congestion on mountain roads. Pollution in Guanabara Bay



- Has the second largest GDP in Brazil It is headquarters to many of Brazil's main companies, particularly with Oil and Gas.
- Sugar Loaf mountain is one of the seven wonders of the world.
- One of the most visited places in the Southern Hemisphere.
- Hosted the 2014 World Cup and 2016 Summer Olympics.

#### **City's Opportunities**

Social: Standards of living are gradually improving. The Rio Carnival is an important cultural event for traditional dancing and music. 19 out of the 50 top schools are in Rio. Life expectancy is 78 in Rio whereas it is 73 in Brazil

**Economic:** Rio has one of the highest incomes per person in the country. The city has various types of employment including oil (Petrobras, retail and manufacturing.

Environmental: The hosting of the major sporting events encouraged more investment in sewage works and public transport systems.

Self-help schemes - Favela, Bairro Project

- 100% mortgages available for people to buy their homes
- Government has demolished houses and created new estates.
- Community policing has been established, police pacification (UPP) along with a tougher stance on gangs with military backed police.
- Cable car built for locals to access the city . People given one free ticket a day.





Resource C	Challenges	Food Growing Demand	in the UK	Water i	n the UK	
Resources are things that humans re	•	Growing Demand	Impact of Demand	Growing Demand	Deficit and Surplus	
easier. Humans are becoming increas resources, and as a result	• • •	• The UK imports about 40% of	Foods can travel long distances	The average water used per	The north and west have a <b>water</b>	
Significance	e of Water	its food. This increases people's carbon footprint.	(food miles). Importing food adds to our carbon footprint.	household has risen by 70%. This growing demand is predicted to	surplus (more water than is	
Resources such as food, energy and human deve		<ul> <li>There is growing demand for greater choice of exotic foods needed all year round.</li> </ul>	+ Supports workers with an income + Supports families in LICs. + Taxes from farmers' incomes	increase by 5% by 2020. This is due to: • A growing UK population.	required). The south and east have a <b>water</b> <b>deficit</b> (more water needed than is	
FOOD WAT	FER 🚰 ENERGY 🥐	<ul> <li>Foods from abroad are more affordable.</li> </ul>	<ul> <li>contribute to local services.</li> <li>Less land for locals to grow their</li> </ul>	<ul> <li>Water-intensive appliances.</li> <li>Showers and baths taken.</li> </ul>	actually available). More than half of England is	
Without enough nutritious food, of clean a	energy is needed for	<ul> <li>Many food types are unsuitable to be grown in the UK.</li> </ul>		<ul> <li>Industrial and leisure use.</li> <li>Watering greenhouses.</li> </ul>	experiencing water stress (where demand exceeds supply).	
people can become malnourished. This	living People need	Agribusiness	Sustainable Foods	Pollution and Quality	Water stress in the UK	
can make them ill . This can prevent for food old	so needed cooking or to stay	Farming is being treated like a	Organic foods that have little	Cause and effects include:		
people working or other pro-	oducts. warm. It is also	large industrial business. This is increasing food production.	impact on the environment and are healthier have been rising.	<ul> <li>Chemical run-off from farmland can destroy habitats</li> </ul>		
receiving education.	needed for industry.	+ Intensive faming maximises the	Local food sourcing is also rising in	and kills animals.		
Demand outstr	ripping supply	amount of food produced. + Using machinery which increases	<ul> <li>popularity.</li> <li>Reduces emissions by only</li> </ul>	<ul> <li>Oil from boats and ships poisons wildlife.</li> </ul>		
The demand for resources like food, w		the farms efficiency.	eating food from the UK.	Untreated waste from	Averane rainfall increase 2008 finares	
that supply cannot always keep u		<ul> <li>Only employs a small number of workers.</li> </ul>	<ul> <li>Buying locally sourced food supports local shops and farms.</li> </ul>	industries creates unsafe	Normal range	
resources vary dramatically in different locations		- Chemicals used on farms damages	<ul> <li>A third of people grow their</li> </ul>	<ul><li>drinking water.</li><li>Sewage containing bacteria</li></ul>	Above average Substantially above average	
1. Population Growth	2. Economic Development	the habitats and wildlife.	own food.	spreads infectious diseases.	Verywet	
Currently the global     population is 7.3 billion.	As LICs and NEEs develop further, they require more	Unit 2c Geog	Jraphy AQA <sup>☑</sup>	Management	Water Transfer	
<ul> <li>Global population has risen exponentially this century.</li> <li>Global population is expected</li> </ul>	<ul> <li>energy for industry.</li> <li>LICs and NEEs want similar lifestyles to HICs, therefore</li> </ul>	The Challenge of		UK has <b>strict laws</b> that limits the amount of discharge from factories and farms.	Water transfer involves moving water through pipes from areas of surplus (Wales) to areas of deficit	
<ul><li>to reach 9 billion by 2050.</li><li>With more people, the</li></ul>	they will need to consume more resources.		•	Education campaigns to inform	(London).	
demand for food, water,	<ul> <li>Development means more</li> </ul>	<b>Resource</b> N	/lanagement	what can be disposed of safety. Waste water treatment plants	• Effects on land and wildlife.	
energy, jobs and space will	water is required for food			remove dangerous elements to	<ul> <li>High maintenance costs.</li> </ul>	
increase.	production as diets improve.	Energ	y in the UK 🛛 🛛 🦉	then be used for safe drinking. Pollution traps catch and filter	<ul> <li>The amount of energy required to move water over</li> </ul>	
	Resource Reliance Graph	Growing Demand	Energy Mix	pollutants.	long distances.	
	<b>Consumption</b> – The act of using up resources or purchasing goods and		The majority of UK's energy mix comes	Energy in the	JK (continued)	
Earth's carrying capacity	produce.		om <b>fossil fuels</b> . By 2020, the UK aims for % of its energy to come from <b>renewable</b>	Significance of Renewables	Exploitation	
	Carry Capacity – A maximum number of species that can be	population. This is due to so	ources. These renewable sources do not			
	supported.	the <b>decline of industry</b> .	contribute to <b>climate change</b> .	+ The UK government is investing more into low carbon alternatives.	New plants provide job opportunities.	
Population Provide consumption	Resource consumption exceeds	Changes in Energy Mix	2009 2020	+ UK government aims to meet	Problems with safety and	
Time		• 75% of the UK's oil and		targets for reducing emissions. + Renewable sources include	<ul> <li>possible harm to wildlife.</li> <li>Nuclear plants are expensive.</li> </ul>	
3. Changing Technolo	ogy and Employment	gas has been used up. • Coal consumption has		wind, solar and tidal energy.		
• The demand for resources has driv	ven the need for new technology to	declined.		- Although infinite, renewables are still expensive to install.	Locals have low energy bills. Reduces carbon footprint.	
reach or gain more resources.		UK has become too	Oil Gas Renewable	- Shale gas deposits may be	Construction cost is high.	
<ul> <li>More people in the secondary and demand for resources required for</li> </ul>	d tertiary industry has increased the or electronics and robotics.	dependent on imported energy.	Nuclear Coal Other	exploited in the near future	Visual impacts on landscape. Noise from wind turbines.	

Option 1	: FOOD	Option 2:	: WATER	Option 3: ENERGY		
Food Security is when people at all times need to have physical & economic access to food to meet their dietary needs for an active & healthy life. This is the opposite to Food Insecurity which is when someone is unsure when they might next eat. Water security is when people have good access to enough well-being and good health. Water insecurity is when ar water supplies. Water Stress is when less than 1700m <sup>3</sup>			urity is when areas are without sufficient	Energy security means having a reliable, energy available. Energy insecurity can high and low energy consumption. Techn	be experienced by countries with both a	
Human 👬	Physical	Human 👬	Physical	Physical	Economic 💲	
<ul> <li>Poverty prevents people affording food and buying equipment.</li> <li>Conflict disrupts farming and prevents supplies.</li> <li>Food waste due to poor transport and storage.</li> <li>Climate Change is affecting rainfall patterns making food production difficult.</li> </ul>	<ul> <li>The quality of soil is important to ensure crops have key nutrients.</li> <li>Water supply needs to be reliable to allow food to grow.</li> <li>Pest, diseases and parasites can destroy vast amounts of crops that are necessary to populations.</li> <li>Extreme weather events can damage crops (i.e. floods).</li> </ul>	<ul> <li>Pollution caused from human and industrial waste being dumped into peoples water sources.</li> <li>Poverty prevents low income families affording water.</li> <li>Limited infrastructure such as a lack of water pipes and sewers.</li> <li>Over-abstraction is when more water is taken than is replaced.</li> </ul>	<ul> <li>Climate needs to provide enough rainfall to feed lakes and rivers. Droughts affect supply if water.</li> <li>Geology can affect accessibility to water. Permeable rock means sourcing water from difficult aquifers, whereas impermeable allows water to run-off into easily collected basins.</li> </ul>	<ul> <li>Geology determines the availability of fossil fuels.</li> <li>Climate variations will affect the potential use of renewable energy.</li> <li>Natural disasters can damage energy infrastructure.</li> </ul>	<ul> <li>Cost of extracting fossil fuels is becoming costly and difficult.</li> <li>Price of fossil fuels are volatile to potential political changes.</li> <li>Infrastructure for energy is costly, especially for LICs.</li> </ul>	
Daily Calorie Intake	Food Supply	Impact of Wa	ter Insecurity	New technology is making once difficult energy sources now	Conflict and turmoil in energy rich     countries can affect exports.	
t and the second		Food production	Industrial output	reachable/exploitable.	Stricter regulations over Nuclear.	
Rey my conta a show 5000 1200-1200		The less water available for irrigating	Manufacturing industries depend	Impact of Ene	rgy Insecurity	
2000-3199 2000-2799 2700-2799 2700-2799 2700-2799 2700-2799		crops the less food that will be produced. This could lead to starvation.	heavily on water. A severe lack of water can impact economic output.	Sensitive environments	Food production	
1 1000-1799 Beleivo 1600 Il no data		Disease and Water Pollution	Water conflict	Exploration of energy resources threatens to harm sensitive areas such	Food production depends on the energy needed to power machinery and	
This map shows how many calories per person that are consumed on average	This map shows the amount of <b>food</b> <b>produced</b> in different countries. Whilst	Inadequate sanitation systems pollutes	Water sources that cross national	as the oil drilling in Alaska, USA.	transport goods to different markets.	
for each country. This can indicate the global distribution	Asia and North America have high production outputs, Africa and Central	drinking water causing diseases such as cholera and typhoid.	borders can create tensions and even war between countries.	Energy conflict	Industry	
of available food and food inequality. Increasing Food Supply	America have low production outputs. C.S. Makeuni programme, Kenya	Increasing Water Supply	C.S. Lesotho Highland Water Project	Shortages of energy resources can lead to tensions and violence. Conflict can be caused by fear of energy insecurity.	Countries can suffer from shortfalls in energy leading to a decline in manufacturing and services.	
Hydroponics - A method of growing plants without soil. Instead they use	Two villages in Makueni County involved in the project	Water diversion - Involves diverting vater to be stored for longer periods. Often water is pumped underground to	Lesotho is a highland country dependent on South Africa. Lesotho has water surplus due to high rainfall.	Increasing Energy Supply	C.S. UK Fracking	
nutrient solution. New Green Revolution - Aims to improve yields in a more sustainable way. Involves using both GM varieties and traditional and organic farming.	The project:         • Built sand dams to provide an improved water supply for each village         • Training programme for famers         • Water tank on the roof of the schools	prevent evaporation. Dams and Reservoirs - Dams control flow and storage of water. Water is released during times of water deficit. Water transfer – includes schemes to	<ul> <li>Advantages</li> <li>Provides 75% of Lesotho's GDP.</li> <li>Provides water to areas of drought in South Africa.</li> </ul>	Non-renewables Fossil Fuels - Conventional power stations can be made more efficient with carbon capture overcoming the environmental impacts.	Fracking is used to extract natural gas trapped in underground shale rock. It is a method considered by the UK. Advantages	
Biotechnology - Genetically modified (GM) crops changes the DNA of foods	Did it work? Yes, but only 2 villages helped	move water from areas of surplus to areas of deficit.	Disadvantages	Nuclear - Once a nuclear plant is built it can provide a cheap and long-term	<ul> <li>Estimated to create 64,000 jobs.</li> <li>UK has large shale gas reserves.</li> </ul>	
to enhance productivity and properties. Irrigation - Artificially watering the land	<ul> <li>so small scale</li> <li>Less time fetching water – more time for work</li> </ul>	<b>Desalination</b> – Involves the extraction of salt from sea water to produce fresh	<ul> <li>Dams displaced 30,000 people.</li> <li>Destruction to key ecosystems.</li> </ul>	dependable source of energy. Renewables	<ul> <li>Is far cheaper than natural gas.</li> </ul>	
so crops can grow. Useful in dry areas to make crops more productive.	More crops grown, better yields     Appropriate technology used	drinking water.	<ul> <li>40% lost through pipe leakages.</li> </ul>	Wind, Solar, Biomass - These are	Disadvantages     May cause groundwater pollution	
Sustainable Food Supply	C.S. NEE- Indus Basin Irrigation System	Sustainable Water Supply	C.S. NEE - The Wakel River Basin	examples of environmentally friendly renewable sources that can't run out	<ul> <li>Is a non-renewable resource.</li> <li>May trigger minor earthquakes.</li> </ul>	
This ensures that fertile soil, water and environmental resources are available for future generations.	Largest irrigation scheme in the world. Involves large and small dams. Thousands of channels provides water	Ensures water supplies don't cause damage to the environment whilst also supporting the local economy.	A project in India that aims to improve water use by encouraging greater use of rainwater harvesting techniques.	but cost a lot to install. Sustainable Energy Supply	C.S. NEE - Chambamontera	
Organic Farming - The banned use of chemicals and ensuring animals are raised naturally. Permaculture - People growing their	to supports Pakistan's rich farmlands. Advantages 14 million ha has been irrigated Increased yield & range of foods (better	Water conservation - Aims to reduce the amount of water wasted. Groundwater Management - Involves the monitoring of extracting	<ul> <li>How does the project work?</li> <li>Provides 'taankas' that store water underground.</li> <li>Small dams called 'johed' interrupt</li> </ul>	This involves balancing supply & demand. It also includes reducing waste & supporting the environment. Home design - Building homes to	Chambamontera is an isolated community in the Andes of Peru. It introduced a micro-hydro to exploit water power as an energy source.	
own food and changing eating habits.	diet) • HEP dams built – renewable energy	groundwater. Laws can be introduced.	water flow and encourages	conserve energy. i.e. roof insulation.	Benefits to the community	
Fewer resources are required. Urban Farming - Planting crops in urban areas. i.e. roundabouts. Managed Fishing – Includes setting catch limits, banning trawling and promoting pole and line methods.	<ul> <li>Disadvantages</li> <li>Few take an unfair share of water</li> <li>Water is wasted and demand is rising due to population growth.</li> <li>High evaporation rates in the summer means water is lost</li> </ul>	Recycling and 'Grey' Water - Means taking water that has already been used and using it again rather than returning it to a river or the sea. This includes water taken from bathrooms and washing machines.	<ul> <li>infiltration.</li> <li>Villages take turns to irrigate their fields so water is not overused.</li> <li>Maintained by farmers so it is entirely sustainable.</li> <li>Greater education for awareness.</li> </ul>	Reduce demand - Changing attitudes towards energy used to save energy. Efficient technology - Making cars more efficient by improving engine design and weight. i.e. Hybrid engines. Transport - Using public buses & bikes.	<ul> <li>Provides renewable energy.</li> <li>Low maintenance &amp; running costs</li> <li>Has little environmental impacts.</li> <li>Using local labour and materials.</li> <li>Businesses are developing.</li> <li>Less wood is needed to be burnt.</li> </ul>	

What is development?		Variations in the level of development				Human factors affecting uneven development			
•	is the progress of a country in terms of	LICs						Aid	Trade
economic gr Economic	owth, well-being and human welfare This is progress in economic growth through levels of industrialisation and use of technology.	NEEs	per capita is low and m have a low standard of These countries are ge	living.			countri <b>project</b>	n help some ies develop <b>key</b> ts for ructure faster.	<ul> <li>Countries that export more than they import have a trade surplus. This can improve the</li> </ul>
Social	This is an improvement in people's standard of living. For example, clean water and electricity.		as their economy is pro from the primary indus secondary industry. Gr exports leads to better	eater	-++ z	A hi	such as hospita	n improve services s schools, als and roads. uch <b>reliance on</b>	<ul> <li>national economy.</li> <li>Having good trade relationships.</li> <li>Trading goods and</li> </ul>
Environmental	This involves advances in the management and protection of the environment.	HICs	These countries are we high GNI per capita and	althy with a	C 3000 km			ght stop other nks becoming shed.	services is more profitable than raw materials.
	Measuring development		of living. These countri- spend money on service		× :?		Edu	ucation 🕞	Health 😽
These are used to con development.	npare and understand a country's level of		Causes of u	neven develoj	oment			ion creates a <b>workforce</b>	• Lack of clean water and poor healthcare means a
E	conomic indictors examples		is globally uneven with				meanir	ng more goods rvices are	large number of people suffer from <b>diseases</b> .
Employment type	The proportion of the population working in primary, secondary, tertiary and quaternary industries.	Africa.	and Oceania. Most NEEs are in Asia and South America, whilst most LICs are in Africa. Remember, development can also vary within countries too.				• Educat		People who are ill     cannot work so there is     little contribution to the
Gross Domestic Product per capita	This is the total value of goods and services produced in a country per person, per year.	Unit 2b Geography AQA <sup>C</sup> The Changing Economic World				they als taxes. T help de	so pay more This money can evelop the y in the future.	economy.     More money on     healthcare means less     spent on development.	
Gross National Income per capita	An average of gross national income per person, per year in US dollars.		Physical factors aff	ecting uneven	development			olitics	History
	Social indicators examples	Nat	ural Resources		Natural Haza	ards	· · · ·	tion in local and al governments.	Colonialism has helped Europe develop, but
Infant mortality	The number of children who die before reaching 1 per 1000 babies born.	• Minera	urces such as oil. Is and metals for fuel. bility for timber.	• B	isk of tectonic ha enefits from <b>vol</b> e nd <b>floodwater.</b>		• The sta govern	<b>bility of the</b> ment can effect	slowed down development in many
Literacy rate	The percentage of population over the age of 15 who can read and write.		to safe water.		requent hazards edevelopment.	undermines	• Ability	intry's ability to of the country to	<ul> <li>other countries.</li> <li>Countries that went through industrialisation</li> </ul>
Life expectancy	The average lifespan of someone born in that country.	A Doliobi	Climate	>	Location/Ter			into services and ructure.	a while ago, have now develop further.
Mixed indicators		farming	Reliability of rainfall to benefit farming.     Landlocked countries may find trade difficulties.		,	Consequences of Uneven Development			
Human Developmen Index (HDI)	A number that uses life expectancy, education level and income per person.			uneven devel	•	nt in different countries. This Jences for countries, especially in			
	The Demog	raphic Transitic					Wealth		eveloped countries have higher developed countries.
The demographi transition model (D shows population ch over time. It studies birth rate and death	rM) ange how	High L High L High E Stead	DR BR Low Declining BR DR	STAGE 3 Rapidly falling DR Low BR High	STAGE 4 Low DR Low BR Zero	STAGE 5 Slowly Falling DR Low BR Negative	Health	Better healthcare developed countr developed countr	means that people in more ies live longer than those in less

e.g. Kenya

e.g. Tribes

e.g. India

e.g. UK

e.g. Japan

Migration

affect the total population of a country.

If nearby countries have higher levels of development or are secure, people will move to seek better opportunities and standard of living.

#### **Reducing the Global Development Gap**

country.

comply with.

lowered.

on development.

from donor country.

quality of life.

and polluting.

Microfinance Loans This involves people in LICs receiving smalls loans from traditional banks. + Loans enable people to begin their own businesses Its not clear they can reduce poverty at a large scale.

This is given by one country to another as money or resources. + Improve literacy rates, building dams, improving agriculture. Can be wasted by corrupt governments or they can become too reliant on aid.

Aid

Fair trade This is a movement where farm get a fair price for the goods produced. + Paid fairly so they can develop

schools & health centres. -Only a tiny proportion of the extra money reaches producers.

EG: Tourism - Reducing the Development Gap In The Gambia

#### Location and Background

The Gambia is a LIC African nation. Location makes The Gambia an attractive place for visitors to explore the tropical blue seas, mangrove forests and historic slavery locations

Yes it does reduce the development gap

-In 2015, 2.12 million visited. -Tourism contributes 27% of GDP M will increase to 38% by 2025. -130.000 iobs rely on tourism. -Global recession 2008 caused a decline in tourism. Now tourism is beginning to recover.

Holiday companies like The Gambia Experience keep a large % of the profits. This is called 'leakage' of profits.

The Gambia is still poor with 74% of the rural population living below the poverty line.

# wuntiplier effect

lobs from tourism have meant more money has been spent in shops and other businesses. -Government has invested in infrastructure to support tourism. -New sewage treatment plants have

#### No it doesn't reduce the development gap

In 2014. the Ebola virus affected some countries in West Africa meant that people stopped visiting The Gambia.

reduced pollution.

In 2016 the Gambian President) refused to step down after he was defeated This lead to rioting and 25,000 tourists were sent back to their home

#### **Case Study: Economic Development in Nigeria**

#### Location & Importance

\$

6

Foreign-direct investment

property or infrastructure in another

+ Leads to better access to finance,

Investment can come with strings

attached that country's will need to

Debt Relief

+ Means more money can be spent

- Locals might not always get a say.

Some aid can be tied under condition

Technology

affordable equipment that improve

+ Renewable energy is less expensive

- Requires initial investment and skills

Includes tools, machines and

in operating technology

This is when a country's debt is

cancelled or interest rates are

This is when one country buys

technology & expertise.

Nigeria is a NEE in West Africa. Nigeria is just north of the Equator and experiences a range of environments. Nigeria is the most populous and economically powerful country in

Africa. Economic growth has been base on oil exports.

#### Influences upon Nigeria's development

Suffered instability with a civil war between 1967-1970. From 1999, the country became stable with free and fair elections. Stability has encouraged global investment from China and USA.

Political

#### Cultural

Nigeria's diversity has created rich and varied artistic culture. The country has a rich music, literacy and film industry (i.e. Nollywood). A successful national football side.

#### The role of TNCs

TNCs such as Shell have played an important role in its economy. + Investment has increased employment and income. Profits move to HICs.

- Many oil spills have damaged

fragile environments.

#### **Environmental Impacts**

The 2008/09 oil spills devastated swamps and its ecosystems. Industry has caused toxic chemicals to be discharged in open sewers - risking human health. 80% of forest have been cut down. This also increases CO<sup>2</sup> emissions.

#### **Effects of Economic Development**

2

Life expectancy has increased from 46 to 53 years. 64% have access to safe water. Typical schooling years has increased from 7 to 9.

## **Case Study: Economic Change in the UK**

#### **UK in the Wider World**

The UK has one of the largest economies in the world. The UK has huge political, economic and cultural influences. The UK is highly regarded for its fairness and tolerance. The UK has global transport links i.e. Heathrow and the Eurostar.

#### **Causes of Economic Change**

De-industrialisation and the decline of the UK's industrial base. Globalisation has meant many industries have moved overseas, where labour costs are lower. Government investing in supporting vital businesses.

#### **Developments of Science Parks**

Science Parks are groups of scientific and technical knowledge based businesses on a single site.

- Access to transport routes.
- ٠ Highly educated workers.
  - Staff benefit from attractive working conditions.
- Attracts clusters of related high-tech businesses.

industry has stayed the steady. Big increase in professional and technical jobs. EG: Bristol and Bath Science Park Sustainability 200 m<sup>2</sup> of Solar panels installed 2.200m<sup>2</sup> of hedgerows have been retained The Metrobus stops outside the Science park The site only offers highly skilled

**Towards Post-Industrial** 

The quaternary industry has

increased, whilst secondary has

Numbers in primary and tertiary

United

(ŬK)

Kinc

jobs which are not suitable for the entire population of Bristol

#### Social Economic Rising house prices have caused Lack of affordable housing for local first time buyers. Villages are unpopulated during Sales of farmland has increased

50

**Change to a Rural Landscape** 

FOR LARGER MAD

decreased.

/ Falmo

rural unemployment. Influx of poor migrants puts pressures on local services.

#### **UK North/South Divide**

- Wages are lower in the North.

- Health is better in the South.
- Education is worse in the North.
- + The government is aiming to support a Northern Powerhouse project to resolve regional
- + More devolving of powers to disadvantaged regions.

faith society. Boko Haram terrorists.

## Industrial Structures

Once mainly based on agriculture, 50% of its economy is now manufacturing and services. A thriving manufacturing industry is increasing foreign investment and employment opportunities.

#### **Changing Relationships**

Nigeria plays a leading role with the African Union and UN. Growing links with China with huge investment in infrastructure. Main import includes petrol from the EU, cars from Brazil and phones from China.

+ Receives **\$5billion** per year in aid. + Aid groups (ActionAid) have improved health centres, provided anti-mosquito nets and helped to protect people against AIDS/HIV. - Some aid fails to reach the people who need it due to corruption.

**£18 billion** on Heathrow's controversial third runway. UK has many large ports for importing and exporting goods.

Aid & Debt relief

tensions in villages.

the day causing loss of identity. Resentment towards poor migrant communities.

> A £15 billion 'Road Improvement Strategy'. This will involve 10 new roads and 1,600 extra lanes. £50 billion HS2 railway to improve connections between key UK cities.

Improvements to Transport

## differences.





Niger

Benin

Gusar

Abuja

Enugu

Sokot

- Shaki

Osh

Ogbom

Lagos

NIGERIA

200 km

• Kano

•Zaria

Maiduguri

Chappa Waddi

Cameroon

Yaounde

Chad

Nigeria

Yankari Nat. Park

Example – Coastal Management Study – Swanage		Types of Erosion		pes of Transportation	Mass Movement	
Reason for management Swanage suffers from longshore due to the angle of the prevailing wind. The t important tourist town and needs a beach to keep the tourists visiting. In addit an eroded beach would mean that Swanage would be at risk of hug coastal eros town and property behind. The land has high economic value and is important t	ion to this sion of the	The break down and transport of rocks – smooth, round and sorted.		ocess by which eroded material carried/transported.	A large movement of soil and rock debris that moves down slopes in response to the pull of gravity in a vertical direction.	
The management strategy Groynes and a sea wall were built in the 1920s		Rocks that bash together to become smooth/smaller.	Solution	Minerals dissolve in water and are carried along.	potential rock slide rock slide Rock slides	
In the 1980s rock armour was put at the base of the cliff and groundwater was d the cliff In 2005, 18 timber groynes were put in replacing the old ones the beach wa replenished	Solution	A chemical reaction that dissolves rocks.	Suspension	Sediment is carried along in the flow of the water.	Prover is siding there is a there is a failure along	
Effects and conflicts Effects – Swanage's sea wall is expected to collapse in the next three years, exposing 84 h hotels and Shore Road to the sea.	Abrasion	Rocks hurled at the base of a cliff to break pieces apart or scraped against the banks and bed of a river.	Saltation	Pebbles that bounce along the sea/river bed.	the bedding plane.	
The replenishment of the beach will have to be done every 20 years and will incur huge co these costs will be paid for by the taxpayer. <b>Conflicts</b> - £2.2 million was the cost of the recent coastal management. Locals argue that i waste of money because holding a beach back (by using groynes) will affect the coastline by holding back sediment.	this is a Hydraul further down		Traction	Boulders that roll along a river/sea bed by the force of the flowing water.	Slumping occurs when there is a downward rotation of sections of cliff. Often occur after heavy rain.	
Some locals were against the construction of the groynes due to their visual appearance a danger associate with them,	ind the	Types of Weathering	Suspension		Rockfall is the rapid free fall	
Material moved along Coatline changes direction	Weath	ering is the breakdown of rocks where they are.	Traction	Satation	Debris Tomore Provide	
Spurn Head, Holderness	Biolog	h change pushing rocks apart.		River Bed Vhat is Deposition?		
Coast. Prevailing winds b t an angle at an angle Mareni deposited in shaling, caim	Mecha	nical Breakdown of rock without changing its chemical composition e.g. freeze thaw	sand, rock p carrying. Th	a or river loses energy, it drops the particles and pebbles it has been his is called deposition. Heaviest aterial is deposited first.	Formation of Bays and Headlands 1) Waves attack the coastline.	
<ol> <li>Swash moves up the beach at the angle of the prevailing wind.</li> <li>Backwash moves down the beach at 90° to coastline, due to gravity.</li> <li>Zigzag movement (Longshore Drift) transports material along beach.</li> <li>Deposition causes beach to extend, until reaching a river estuary.</li> <li>Change in prevailing wind direction forms a hook.</li> <li>Sheltered area behind spit encourages deposition, salt marsh forms.</li> </ol> How do waves form?		1C - Coasts Genysical Landsca	•	n the UK	<ul> <li>Soft rock</li> <li>2) Softer rock is eroded by the sea quicker forming a bay, calm area cases deposition.</li> <li>3) More resistant rock is left jutting out into the sea. This is a headland and is now more vulnerable to erosion.</li> </ul>	
Waves are created by wind blowing over the surface of the	Stage One	Stage Two	S S	Stage Three	Formation of Coastal Stack	
sea. As the wind blows over the sea, friction is created - producing a swell in the water.	roducing a swell in the water. Water seeps freezes, it With repeated			Collapsed arch		
Why do waves break?	into cracks and fractures in the	expands about 9%. This wedges	C	reeze-thaw ycles, the rock	Example: Old Harry	
1 Waves start out at sea.	rock.	apart the rock.	b	preaks off.	Rocks,	
2 As waves approaches the shore, friction slows the base.	Size of waves	e of waves Types			Creve Wave Cut platform Clack	
3 This causes the orbit to become elliptical.	Affected by: Constructive Waves			Destructive Waves	1) Hydraulic action widens cracks in the cliff face over time.	
4 Until the top of the wave breaks over.	<ul> <li>Fetch how far the wave</li> </ul>	This wave has a <b>swash that is stronge</b> than the backwash. This therefore buil			<ol> <li>Abrasion forms a wave cut notch between high tide and low tide.</li> </ol>	
Motion of Individual Water Molecules	<ul> <li>has travelled</li> <li>Strength of the wind.</li> <li>How long the wind has been blowing for.</li> </ul>	Long wavelength Stateward State	voath 7 7 7 8 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	r than the swash. This therefore erodes the coast.	<ol> <li>Further abrasion widens the wave cut notch to from a cave.</li> <li>Caves from both sides of the headland break through to form an arch.</li> <li>Weather above/erosion below -arch collapses leaving stack.</li> <li>Further weathering and erosion eaves a stump.</li> </ol>	

Coastal Defences			Water Cycle Key Terms			Lower Course of a River					
Hard Engineerin	ng Defences		Precipitation	Precipitation Moisture falling from clouds as rain, snow or h		ow or hail.	Nea	Near the river's mouth, the river widens further and becomes flatter. Material transported is deposited.			
Groynes	nes Wood barriers ✓ Beach still accessible. prevent longshore × No deposition further down		Interception	Interception Vegetation prevents water reaching the		e ground.		Formation of Floodplains and levees		Natural levees	
	drift, so the beach can build up.	coast = erodes faster.	Surface Runoff	Water flowing o	over the surface of the la	and into rivers		nen a river floods, fine silt/alluvium i		mp	
	Cuil build ap.		Infiltration	Water absorbed	l into the soil from the g	ground.		the valley floor. Closer to the river's avier materials build up to form nate	•		
Sea Walls	Concrete walls break up the	<ul> <li>✓ Long life span</li> <li>✓ Protects from flooding</li> </ul>	Transpiration	Water lost throu	ugh leaves of plants.		1	Nutrient rich soil makes it ideal f	or farming.	River	
	energy of the wave . Has a lip to	<ul> <li>Curved shape encourages erosion of beach deposits.</li> </ul>	1	Physical and Humar	n Causes of Flooding.		1	Flat land for building houses.	5		
	stop waves going over.		Physical: Prolong &		Physical: Geology			Riv	er Manager	nent Schemes	
Gabions or Rip	Cages of	✓ Cheap	Long periods of rain become saturated I		Impermeable rocks or runoff to increase riv		Soft	Engineering		Hard Engineering	
Rap	rocks/boulders absorb the waves energy, protecting the cliff behind.	<ul> <li>✓ Local material can be used to look less strange.</li> <li>➤ Will need replacing.</li> </ul>	<i>Physical:</i> Relief Steep-sided valleys to flow quickly into greater discharge.		Human: Land Use Tarmac and concrete impermeable. This p infiltration & causes	revents	redu <b>Dem</b>	prestation – plant trees to soak up rai Juces flood risk. nountable Flood Barriers put in place ning raised.		Straightening Channel – increases velocity to remove flood water. Artificial Levees – heightens river so flood water is contained.	
Soft Engineering D	refences		greater uiserarger				Man	Managed Flooding – naturally let areas flood,		Deepening or widening river to increase capacity	
Beach Nourishment	Beaches built up with sand, so	<ul> <li>✓ Cheap</li> <li>✓ Beach for tourists.</li> </ul>			se of a River		prote	ect settlements.		for a flood.	
	waves have to travel further	<ul> <li>Storms = need replacing.</li> <li>Offshore dredging damages</li> </ul>		r a lot of energy, so	teep gradient from the it will erode the riverb		Hydrographs and River Discharge				
	before eroding cliffs.	seabed.		form narro	ow valleys.		Rive	River discharge is the volume of wa		er that flows in a river. Hydrographs who discharge at a	
Managed	Low value areas	Reduce flood risk	Formation of a Waterfall			certain point in a river changes over time in relation to rainfall					
Retreat	of the coast are left to flood & erode.	<ul> <li>Creates wildlife habitats.</li> <li>Compensation for land.</li> </ul>	Harder rock				1. Peak discharge is the discharge in a period of time.				
	erode.		Softer rock	2) River ero	des soft rock faster crea	ating a step.	1			(cumecs)	
Example – R	iver Management Stu	udy – Somerset Levels floods			ydraulic action and abr	rasion form a		2. Lag time is the delay between peak rainfall and peak discharge.			
	Why was the sche already swollen with w			plunge pool	l beneath.		3. Rising limb is the increase in river discharge.		12 Linute Linute		
	saturated from perviou		Harder rock		k above is undercut leav pses providing more ma					E 20 Presk Lag Time Storm Flow	
Quantocks in the	e south west	Mendips in the north east and the		erosion.			4. Fa	4. Falling limb is the decrease in river		E 49 - 10 E 20 - 10 E 20 - 10 Baseflow/ Ground Water Row CC. Richards	
Burrowbridge is	Management Strat	ne River Tone and Parett tegy - 20124		5) Waterfall	l retreats leaving steep	sided gorge.	disc	charge to normal level.		Day 1 Day 2 Day 3 Day 4 Time	
	metres of silt was			Formation	n of Ox-bow Lakes			Case Study: The River Tees			
	village of Th		Ste	ep 1		Step 2		Location and Background			
		Iney was raised by just over a metre It upstream of Bridgwater	and the second se	sion of outer bank		Further hydraulic		Located in the North of England a	and flows 137	km from the Pennines to the North Sea at Red Car.	
	Social, Economic and Env	vironmental Issues	Dep	ns river cliff. oosition inner bank	200	action and abrasi of outer banks, n		Geomorphic Processes	ed valley ran	ide and	
Social – Building an embankment and raising the road means that life can on when there are future floods – people can get to work, school. Economic – The cost of a barrage is estimated at £32 million. Environmental – Dredging speeds up the flow of the river and increase er		g the road means that life can carry	form	forms slip off slope.		gets smaller.		Upper – Features include V-Shaped valley, rapids and waterfalls. High Force Waterfall drops 21m and is made from			
		ed at £32 million.	Ste	ep 3		Step 4		harder Whinstone and softer lime gorge has been formed.		R. Teas	
downstream. Building a road hig	sher up could lead to eros	ion and possible collapse		sion breaks through k, so river takes the		Evaporation and deposition cuts of		Middle – Features include meanders and ox-bow lakes. The meander near Yarm encloses the town.		ow lakes. The	
			fast	est route, irecting flow	deposition cuts of main channel leav an oxbow lake.		OTT			3014 01-00	
	Middle Course o	of a River	redi			all oxnow lake.					
		ne water has less energy and in to erode laterally making the									
river wider.		Unit 1d	- Rivers								

What are Natural Hazards	t are Natural Hazards? Effects of Tectonic Hazards Comparing E			Earthquakes – Nepal an	d Chile					
Natural hazards are physical events such as earthquakes and volcanoes that have the potential to do damage to humans, property and the economy. Hazards include tectonic hazards, tropical storms and forest fires.		Primary effects happen immediately. Se primary effects and ar	econdary effects happen a therefore often later.	s a result of the	Nep:	al. April 2015. Magnituc	le 7.8.	Chile. February 2010. Magnitude 8.8.	LICs su	
		Primary - Earthquakes	Secondary - Ear	thquakes			Primary	Effects	ıffer	
What affects hazard risk? Population growth Global climate change Deforestation Wealth - LICs are particularly at risk as		<ul> <li>Property and buildings destroyed.</li> <li>People injured or killed.</li> <li>Ports, roads, railways damaged.</li> <li>Pipes (water and gas) and electricity cables broken.</li> </ul>	ed. repairing property. s damaged Blocked transport hinde ) and electricity services. - Broken gas pipes cause		<ul> <li>d transport hinders emergency</li> <li>d transport hinders emergency</li> <li>26 hospitals and 50% of schools destroyed</li> <li>27 hospitals and 50% of schools destroyed</li> <li>28 hospitals and 50% of schools destroyed</li> <li>28 hospitals and 50% of schools destroyed</li> <li>28 hospitals and 50% of schools destroyed</li> <li>29 hospitals and 50% of schools destroyed</li> <li>20 hospitals and 50% of schools destroyed</li> <li>28 hospitals and 50% of schools destroyed</li> <li>29 hospitals and 50% of schools destroyed</li> <li>29 hospitals and 50% of schools destroyed</li> <li>29 hospitals and 50% of schools destroyed</li> <li>20 hospitals and 50% of schools destroyed</li> <li>20 hospitals and 50% of schools destroyed</li> <li>29 hospitals and 50% of schools destroyed</li> <li>20 hospitals and 50%</li></ul>		<ul> <li>Over 500,000 homes destroyed</li> <li>26 hospitals and 50% of schools destroyed</li> <li>Cost of earthquake was estimated to be over</li> <li>Cost of earthquake vas estimated to be over</li> </ul>		<ul><li> 210 000 homes destroyed</li><li> Cost of earthquake was estimated to be</li></ul>	more than HICs fron s
they do not have the	mary	Primary - Volcanoes	Secondary - Vo	lcanoes			Secondar	y Effects	om natural struggle to	
money to protect themselves  Structure of the Earth  The earth has 4 layers The core (divided into inner		<ul> <li>Property and farm land destroyed.</li> <li>People and animals killed or injured.</li> <li>Air travel halted due to volcanic ash.</li> <li>Water supplies contaminated.</li> </ul>	roperty and farm land destroyed. eople and animals killed or injured. ir travel halted due to volcanic ash. - Economy slows down. Emerg services struggle to arrive. - Possible flooding if ice melts		landslides – the area had to be evacuated in case of flooding. atch. • Rice seed stored in homes was ruined as		<ul> <li>A fire at a chemical plant near Santiago – the area had to be evacuated.</li> <li>Roads blocked mainly by landslides</li> <li>A drastic income decrease in the Chilean wine industry (one of the top wine industries in the world).</li> </ul>			
and outer), mantle and	Crust					l i i i i i i i i i i i i i i i i i i i	mmediate	Responses	lse th	
crust.		Responses to Tectonic Hazards				quested international help,	including	• Water and electricity was restores to 90%	ıey aı	
The crust is split into major sections called <b>tectonic</b>	Plates either move towards each other (destructive	Immediate (short term)	oossible. - Repair and re-build properties and infrastructure. - Improve building regulations		<ul><li>the UK.</li><li>Red Cross donated tents for 225,000 people</li></ul>			<ul><li>of homes within 10 days.</li><li>Temporary repairs were made to Route 5</li></ul>		
plates.	margin) away from each other ( <b>constructive</b> ) or past	- Issue warnings if possible. - Rescue teams search for survivors.			<ul> <li>Facebook launched a safety feature so peo could indicate they were safe.</li> </ul>		so people	ople (road running north to south) within 24 hours		
There are 2 types of crust: Oceanic (thin and younger	each other (conservative).	<ul> <li>Treat injured.</li> <li>Provide food and shelter, food and</li> </ul>			Long ter		Long term	responses	epare	
but dense) and <b>Continental</b> (old and thicker but less dense).	Constructive margin	drink. - Recover bodies. - Extinguish fires.			<ul> <li>World Heritage Sites (including Mount Everest) reopened August 2015.</li> <li>There are now stricter controls on buildings</li> </ul>			<ul> <li>Chile's strong economy (based on copper exports) could be rebuilt without the need for foreign help.</li> </ul>	id and	
These plates move due to convection currents in the			•				Global	atmospheric circulation		
mantle and, where they meet, tectonic activity (volcanoes and earthquakes) occurs	Conservative margin	Unit 1a The Challen		apny <mark>atura</mark> l	Haz	AQA <sup>⊠</sup> ards	hoti	quator, the sun's rays are most concentrated. This m ter. This one fact causes global atmospheric circulatio different latitudes.		
Destructive margin		tectonic activity On the o	plate boundaries. edge of continents. e edge of the Pacific.		e impact of tectonic hazards		Su	High pressure		
			7 3 . 6	Monit	toring	Prediction		Descending air 30°N Horse Northeast trade winds		
Earthquakes and Volcanoe	s	JUN DE FUCA	Stan and	S –sesimographs H – heat seeking ca	amera (thermal	By observing monitoring data, this	L	ow pressure	rums	
Volcanoes	Earthquakes		MERICAN EURASIAN PLATE	imaging) A- angle – bulging		can allow evacuation		Southeast trade winds		
<ul> <li>Constructive margins – Hot magma rises between the plates e.g. Iceland. Forms</li> </ul>	- Constructive margins – usually small earthquakes as plates pull apart.	Ares Areutian Arc MVB and y	ARIBBEAN	measured by tiltm G gas monitoring s Co2 released.	eter	before event. Animals can detect		High pressure Descending air Westerrites B005		
Shield volcanoes. - Destructive margins – an oceanic plate subducts	Destructive margins –     violent earthquakes as     pressure builds and is then	PLATE PLATE NAZCA		Prote	ction	Planning		Low pressure Rising air 90/5 High pressure Bescending air		
under a continental plate. Friction causes oceanic plate to melt and pressure forces magma up to form composite volcanoes after repeated eruptions.	eanic plate subducts der a continental plate. iction causes oceanic plate melt and pressure forces agma up to form mposite volcanoes after mets and pressure builds it is released mod Australian plates slide past each other. They catch and then as pressure builds it is released Autractic Plate plates slide past each other. They catch and then as pressure builds it is released		PACIFIC PLATE PLATE ANTARCTIC PLATE ANTARCTIC PLATE ANTARCTIC PLATE ANTARCTIC PLATE ANTARCTIC PLATE ANTARCTIC PLATE		ions that absorb ment. offs for gas and ricity. wilt into building	Avoid building in at risk areas. Training for emergency services and planned evacuation routes and drills.	Low pres As the ai causing h	Addeted from Doubley, while Core of Atoma B Doubley, while other white Core of the Verberg Core of the Ver		

#### **Tropical Storms**

Occur in low latitudes between 5° and 30° north and south of the equator (in the tropics). Ocean temperature needs to be above 27° C. Happen between summer and autumn.



#### **Sequence of a Tropical Storm**

- Air is heated above warm tropical oceans. 1.
- 2. Air rises under low pressure conditions.
- 3. Strong winds form as rising air draws in more air and moisture causing torrential rain.
- 4. Air spins due to Coriolis effect around a calm eye of the storm.
- 5. Cold air sinks in the eye so it is clear and dry.
- 6. Heat is given off as it cools powering the storm.
- 7. On meeting land, it loses source of heat and moisture so loses power.



Climate change will affect tropical storms too. Warmer oceans will lead to more intense storms - but not necessarily more frequent ones.

#### Extreme weather in the UK



Rain - can cause flooding damaging homes and business. Snow & Ice - causes injuries and disruption to schools and business. Destroys farm crops.

Hail – causes damage to property and crops.

Drought - limited water supply can damage crops.

Wind – damage to property and damage to trees potentially leading to injury.

Thunderstorms - lightening can cause fires or even death. Heat waves - causes breathing difficulties and can disrupt travel.

UK weather is getting more extreme due to climate change. Temperatures are more extreme and rain is more frequent and intense leading to more flooding events. Since 1980 average temperature has increased 1 degree and winter rainfall has increased.

Typhoon Haiyan, Philippines, November 2013							
Primary Effects At least 6340 killed 90% buildings in Tacloi destroyed 30,000 fishing boats w destroyed		<ul> <li>\$1.5 Bill</li> <li>Storm su</li> <li>Water su</li> <li>1.9 million</li> <li>displace</li> <li>Public O</li> <li>Airports</li> </ul>	Eviden were o the Hum Cause				
<ul> <li>Immediate Resp Washington helped wi search and rescue.</li> <li>Over 1200 evacuation were set up.</li> <li>UK government sent s to provide emergency families.</li> </ul>	orge th the centres helter kits	<ul> <li>Thousan been bu of floodi</li> <li>Cash for paid to h rebuild t</li> <li>Oxfam h</li> </ul>	ong-term Responses dds of homes have now ilt away from areas at risk ing work programme people help clear the debris and the city of Tacloban. helped to support the ment of fishing boats.	sun's e Earth's as the l elliptica on an a - Solar sunspo maximu years. - Volca			
Prediction Monitoring wind patterns allows path to be predicted. Use of satellites to monitor path to allow evacuation	Planning Avoid building in high risk areas Emergency drills Evacuation routes		Protection Reinforced buildings and stilts to make safe Flood defences eg levees and sea walls Replanting Mangroves	volcani sunligh global t tempor also rel			
Extreme		t Deast fra	the Feet				

#### Extreme weather event – Beast from the East

Causes: • A polar continental air mass brought extremely cold air to the UK from the east

• This air mass met storm Emma (a low pressure system), bringing lots of warmer moist air from the south-west.

The polar jet stream un-expectantly twisted in direction and this caused a jump in temperatures high over the Arctic, known as sudden stratospheric warming

#### Social Effects

Schools across the country closed for up to 3 days

• Hundreds were stranded for up to 36hrs on the M80 Motorway in Scotland and A roads in Devon.

•Snow drifts in excess of 7m in rural locations and people were blocked into their homes

#### **Economic Effects**

Supermarket shelves were left empty because fresh deliveries could be made.

British Airways cancelled a huge number of short-haul flights from airports like Heathrow

#### **Environmental impacts**

Many coastal areas were issued with flood warnings as well.

#### Management strategies/responses

Community centers opened for homeless people to shelter from the conditions. Armed forces volunteered to rescue drivers and drive NHS workers to work. Drivers of a Greggs Delivery van, stuck on the A1 near Newcastle, gave out free food to stranded drivers

#### Climate Change – natural or human?

dence for climate change shows changes before humans re on the planet. So some of it must be natural. However, the rate of change since the 1970s is unprecedented. lumans are responsible – despite what Mr Trump says!

#### ises

Natural	Human
tal changes – The	- Fossil fuels – release carbon
energy on the	dioxide with accounts for 50%
s surface changes	of greenhouse gases.
Earth's orbit is	- Agriculture – accounts for
cal its axis is tilted	around 20% of greenhouse
angle.	gases due to methane
r Output –	production from cows etc.
ots increase to a	Larger populations and growing
num every 11	demand for met and rice
	increase contribution.
anic activity –	- Deforestation - logging and
nic ash reflects	clearing land for agriculture
ht away reducing	increases carbon dioxide in the
l temperatures	atmosphere and reduces ability
orarily. Volcanoes	to planet to absorb carbon
elease Co2 .	through photosynthesis.

#### **Effects of Climate Change**

Social Environmental - Increased disease eg. skin - Increased drought in cancer and heat stroke. Mediterranean region. - Winter deaths decrease with - Lower rainfall causes milder winters. food shortages for orangutans in Borneo - Crop yields affected by up to 12% in South America but will and Indonesia. increase in Northern Europe but - Sea level rise leads will need more irrigation. to flooding and - Less ice in Arctic Ocean coastal erosion. increases shipping and extraction - Ice melts threaten of oil and gas reserves. habitats of polar - Droughts reduce food and water bears. supply in sub-Saharan Africa. -Forests in North Water scarcity in South and America may South East UK. experience more - Declining fish in some areas pests, disease and affect diet and jobs. forest fires. - Increased extreme weather eg. Tropical storms.

#### Evidence for Climate Change

The Met Office has reliable climate evidence since 1914 – but we can tell what happened before that using several methods.

#### Ice and Sediment Cores

- Ice sheets are made up of layers of snow, one per year. Gases trapped in layers of ice can be analysed. Ice cores from Antarctica show changes over the last 400 000 years.

- Remains of organisms found in cores from the ocean floor can by traced back 5 million years.

#### **Pollen Analysis**

- Pollen is preserved in sediment. Different species need different climatic conditions.

#### Tree Rings

- A tree grows one new ring each year. Rings are thicker in warm, wet conditions - This gives us reliable evidence for the last 10 000 years.

#### **Temperature Records**

- Historical records date back to the 1850s. Historical records also tell us about harvest and weather reports.

#### **Managing Climate Change**

#### Mitigation

- Alternative energy production will reduce CO<sub>2</sub>

production.

- Planting Trees – helps to remove carbon dioxide.

- Carbon Capture - takes carbon dioxide from emission sources is stored underground. - International Agreements e.g. the Paris Climate Agreement.

#### Adaption

- Changes in agricultural systems need to react to changing rainfall and temperature patterns and threat of disease and pests.

 Managing water supplies – eg. by installing water efficient devices and increasing supply through desalination plants.

- Reducing risk from rising sea levels would involve constructing defences such as the Thames Flood Barrier or restoring mangrove forests, or raising buildings on stilts.

## GCSE GRAPHIC DESIGN WHAT YOU NEED TO KNOW for your CONTROLLED TEST

You will start your controlled test (your final exam) In January. As with your coursework, in Graphic Design Design there are 4 assessment objectives that you will be graded against for the exam. To maximise your grade you need to complete all 4 steps of the project. Each one is worth 25% of your final grade. Your exam is worth 40% of your overall grade.

You will be given an exam paper with 8 possible questions. With the help of your teacher choose just one.

## **A01** ARTIST ANALYSIS, MAKING LINKS AND IDEAS

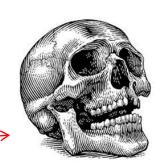
What artists or designers are you looking at for this project? How does your own work link or connect to that of the artist you have looked at? Have you developed some of your own ideas? TIP: Complete an 'Artists analysis' sheet. Collect examples of their work and related work that inspires you. **25% of your marks**.





## **A02 REFINEMENT AND MATERIALS**

Refine your ideas through experimenting and selecting appropriate resources, materials, techniques and processes. You may want to use your newly developed PHOTOSHOP skills. Think of it like producing your typography compositions during your Cecil Touchon project or your surfboard development for Mambo.



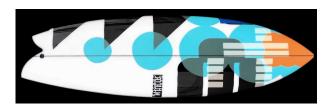
TIP: if you are studying the work of a printmaker who uses lino prints then have a go at carving out a lino design! **25% of your marks.** 

## **A03** DRAWING AND RECORDING

Always make sure you have recorded ideas, observations and insights relevant to your theme. For each project you should include high quality pencil drawings that show a full tonal range.

TIP: Try other exciting materials to draw with such as biro, inks or unusual materials. **25% of your marks.** 





## **A04** PRODUCING A FINAL PIECE

At the end of the exam you will have 10 hours to present a personal, informed and meaningful final piece. Think of it like producing your surfboard for the end of the Mambo project. This could be a series of prints, a digital image or a mixed media piece. TIP: This should demonstrate how you have made connections with the artists you have studied.

#### TOP TIPS FOR MAXIMUM MARKS

Annotate your sheets explaining your ideas? Describe the process you have gone through of producing your work. Describe why you have made decisions.

25% of your marks.

- Just like in maths you should keep everything and show all you workings. Think of your project as a journey.
- You will pick up marks for showing how you got from A to B!

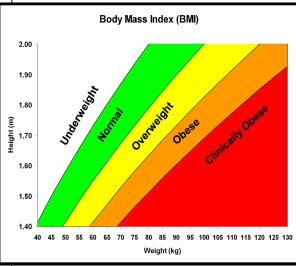
## YR 11 Health and Social Care **KNOWLEDGE ORGANISER** Component 1



This is revision for the exam in February. You will need sound knowledge of all of the key concepts from component 3. You must also know what each command word means and apply these in your answers to the exam questions.

Assess Give careful consideration to all the factors or events that apply and identify which are the most important or relevant. Make a judgement on the importance of something, and come to a conclusion where needed. **Describe** To give an account of something. Linkage required in the form of context or process. **Explain** Requires identification of a point and linked justification/exemplification of that point. Body Mass Index (BMI) Give State or put forward information or an argument 2.00 Interpret State the meaning, purpose or qualities of something. 1.90 Underweight Overweight Justify Give reasons or evidence to support an opinion. 1.80 Height (m) 1.70 Analyse Examine methodically and in detail, typically in order to interpret. 1.60 Apply Put knowledge, understanding or skills into action in a particular context. 1.50 Identify The main factors relating to two or more items/situations, explain the similarities and differences, and in some cases say which is best and why. **Discuss** Consider the different aspects of the topic and talk about how they interrelate and the extent to which they are important.

Evaluate Bring together all information and review it to form a conclusion, drawing on evidence, including strengths, weaknesses, alternative actions, relevant data or information.



Health and Social Care Knowledge Or	ganiser: Component 3 Health and V	Vellbeing
LAA Factors that affect health and	LAB Interpreting health	LAC Person centred health and
wellbeing	indicators	wellbeing improvement plans
A1 Factors affecting health and	<b>B1</b> Physiological indicators	<u>C1 Health and wellbeing</u>
wellbeing	1. Physiological indicators that	improvement plans
1. Definition of health and wellbeing	are used to measure health:	1. The importance of a
<b>a</b> . A combination of physical	<b>a</b> . Pulse (resting and	person-centred approach
health and social and	recovery rate after	that takes into account an
emotional wellbeing, and not	exercise)	individual's needs, wishes
just the absence of disease or	<b>b</b> . Blood	and circumstances
illness	<b>c</b> . Peak flow	2. Information to be included
2. Physical and lifestyle factors	d. Body mass index (BMI)	in plan:
that can have positive or	2. Using published guidance to	a. Recommended actions
negative effects on health and	interpret data relating to	to improve health and
wellbeing:	these physiological	wellbeing
a. Genetic inheritance, including	indicators	<b>b</b> . Short term (less than
inherited conditions and	3. The potential significance of	6 months) and long
predisposition to other	abnormal readings: risks to	term targets
conditions	physical health	<b>c</b> . Appropriate sources
<b>b</b> . Ill health (acute and chronic)		of support (Formal
c. Diet (balance, quality and		and/ or informal)
amount)	B2 Lifestyle indicators	<u>C2</u> Obstacles to implementing
d. Amount of exercise	1. Interpretation of lifestyle	plans
e. Substance user, including	data, specifically risks to	1. Potential obstacles
alcohol, nicotine, illegal drugs	physical health associated	<b>a</b> . Emotional/psychological
and misuse of prescribed	with:	- lack of motivation, low
drugs	<b>a</b> . Smoking	self-esteem, acceptance
<b>f</b> . Personal hygiene	<b>b</b> . Alcohol consumption	of current state
3. Social, emotional and cultural	c. Inactive lifestyles	<b>b</b> . Time constraints - work
factors that can have positive or		and family commitments
negative effects on health and		<b>c</b> . Availability of resources
wellbeing:		- financial, physical, e.g.
<b>a</b> . Social interactions, e.g.	and the second se	equipment
supportive/ unsupportive	6 37	<b>d</b> . Unachievable targets -
relationships, social		unachievable for the
intergration/ isolation		individual or unrealistic
<b>b</b> . Stress, e.g. work-related		timescale
<b>c</b> . Willingness to seek help or		e. Lack of support, e.g.from
access services, e.g.		family and friends
influenced by culture, gender,		<b>f</b> . Other factors specific to
education		individual – ability/
4. Economic factors that have a		disability, addiction
positive or negative effect on	-	<b>g</b> . Barriers to
health and well-being		accessing
a. Financial resources		identified serv
5. Environmental factors that can		ices
have a positive or negative		
effect on health and well-being:		11 12 1
<b>a</b> . Environmental conditions, e.g.		
levels of pollution, noise		
<b>b</b> . Housing, e.g. conditions,		29 <b>7</b> 3
location		8 4
6. The impact of life events		
relating to relationship changes		(LUI)
and changes in life circumstances		

## THE ELIZABETHAN AGE 1568-1603 KNOWLEDGE ORGANISERS

**History** 

Торіс	Content
Elizabeth and Parliament How successful was the Elizabethan parliament?	<ul> <li>•Elizabeth I and her court: background and character of Elizabeth I; court life, including patronage; key ministers.</li> <li>•The difficulties of a female ruler: relations with Parliament; the problem of marriage and the succession; the strength of Elizabeth's authority at the end of her reign, including Essex's rebellion in 1601.</li> </ul>
Life in the Elizabethan age How different were the lives of the rich and the poor?	<ul> <li>•A 'Golden Age': living standards and fashions; growing prosperity and the rise of the gentry; the Elizabethan theatre and its achievements; attitudes to the theatre.</li> <li>•The poor: reasons for the increase in poverty; attitudes and responses to poverty; the reasons for government action and the seriousness of the problem.</li> <li>•English sailors: Hawkins and Drake; circumnavigation 1577-1580, voyages and trade; the role of Raleigh.</li> </ul>
Troubles at home and abroad How successfully did Elizabeth deal with threats to her rule?	<ul> <li>Religious matters: the question of religion, English Catholicism and Protestantism; the Northern Rebellion; Elizabeth's excommunication; the missionaries; Catholic plots and the threat to the Elizabethan settlement; the nature and ideas of the Puritans and Puritanism; Elizabeth and her government's responses and policies towards religious matters.</li> <li>Mary Queen of Scots: background; Elizabeth and Parliament's treatment of Mary; the challenge posed by Mary; plots; execution and its impact.</li> <li>Conflict with Spain: reasons; events; naval warfare, including tactics and technology; the defeat of the Spanish Armada.</li> </ul>
The Spanish Armada	Causes; events; reasons for failure; consequences

			KPI 2 Court life, incl ministers	cluding patronage; key Positives		Negatives
patriarchy.were related toreligious chaPeople thoughtprevious monarchs.16th Century.that queensMany English people -Elizabeth's fwere weak andespecially Catholics -brother - Herwould only dosaid Elizabeth wasand Edward Vwhat theirillegitimate becauseintroducedhusbandsHenry's marriage toProtestantis		England had experienced huge religious change in the 16 <sup>th</sup> Century. Elizabeth's father and brother - Henry VIII and Edward VI - had introduced <b>Protestantism</b> only for	QUEEN ELIZABETH The monarch was sovereign, meaning Elizabeth had complete power over England. However, in order to avoid challenges to her rule she needed to stay popular with her people.1. Royal Portraits always showed Elizabeth at her best Portraits projection royal power. After catching small pox in 1562, Elizabeth's was scarred, portraits did not show this. They were a type of propaganda, creating a of a powerful, ageless monarch. 2. Royal progresses generated loyalty For 10 weeks each summer, Eliz went on royal progress, touring the countryside and staying with noble ensured that Elizabeth was seen by her people.		red, but the ing an image Elizabeth	<ol> <li>Elizabeth's grandeur was expensive Elizabeth spend £16,000 on her coronation. Progresses were also expensive for nobles who had to host the Queen and her court</li> <li>No visits to Wales or the North Elizabeth's progresses moved very slowly and she never reached Wales or the North of England. These areas were less loyal to Elizabeth</li> </ol>
Elizabeth's sister Mary had been unpopular because people thought her husband - Philip	vanted. Anne Boleyn was not accepted by the ister Mary had been unpopular because people hought her usband - Philip of Spain - controlled what Anne Boleyn was not accepted by the Catholic church. However, as both her parents were English she did not have country. Anne Boleyn was not accepted by the Catholic church. However, as both her parents were English she did not have country. Anne Boleyn was not bring back Catholicism. Elizabeth was Protestant but many English people and powerful foreign country. Catholic.		THE ROYAL COURT The Royal Court was the group of people who surrounded the Queen. The Court was based in London but accompanied Elizabeth on progress.	<ol> <li>Elizabeth used the court to show off her power The court hosted dancing, plays, hunts, feasts and jousting tournaments</li> <li>Elizabeth always had her advisors with her Because the Court travelled with Elizabeth she always had key advisors on hand</li> <li>Patronage kept nobles loyal The Queen ensured the loyalty of her court through a system of patronage. Loyal nobles were rewarded with important positions. Nobles were supportive because they knew that the Queen could give power, but if they annoyed her she could take away their court position.</li> </ol>		<b>1. The Royal Court was split into factions</b> The <b>patronage</b> system created rivalries between different groups of nobles, or factions, who competed for the Queen's favour. This was a problem for Elizabeth because her government often was divided and advisors were sometimes more interested in serving their faction than giving the best advice.
Mary I had run up a debt of £227,000 fighting wars. Elizabeth inherited this debt when she	Elizabeth's cousin,		THE PRIVY COUNCIL The Privy Council wa a group of advisers appointed by the Queen. They advised the Queen on policy and ran her government.	<ul> <li>as Privy Council to 19 members and made sure to appoint councillors we viewpoints</li> <li>2. <u>William Cecil</u> was the most loyal Privy Councillor Cecil served and State for 40 years, protecting Elizabeth's interests and giving good and served and</li></ul>	<ol> <li><u>William Cecil was the most loyal Privy Councillor</u> Cecil served as Secretary of State for 40 years, protecting Elizabeth's interests and giving good advice.</li> <li><u>Francis Walsingham was Elizabeth's spymaster</u> Walsingham ran the secret</li> </ol>	
became Queen in 1558. Elizabeth needed to pay this back but also make sure she had enough money to raise an army to defend England			PARLIAMENT Parliament had the power to propose new laws and grant taxes. There were 450 MPs, elected by wealthy landowners.	<ol> <li>Elizabeth had control over Parliament Parliament could only meet if Elizabeth called it. Elizabeth could also decide what topics Parliament was allowed to debate. For example, Elizabeth banned discussion of religion and her marriage. She could prorogue (close) Parliament at any point. Parliament only met 13 times in her 45 year reign.</li> <li>William Cecil controlled debate Elizabeth made sure Cecil and other privy councillors sat in Parliament to help control debates</li> </ol>		<ol> <li>Parliament was needed to raise taxes Elizabeth's main income was from tax. This gave Parliament some power over her</li> <li>MPs wanted freedom of speech MPs wanted to discuss issues that Elizabeth had banned. In 1576, she imprisoned the MP Peter Wentworth for demanding freedom of speech</li> <li>Some MPs were Puritans Puritan MPs used Parliament to demand religious change. Puritan MP William 'the Stinger' Strickland was famous for his fiery speeches.</li> </ol>
William Cecil: Privy Councillor, Secretary of State, Protestant				is Walsingham: Privy Councillor, Ister, Puritan		ey: Privy Councillor, I's greatest rival

Elizabeth 2: Elizabeth and female rule		KPI 4 Elizabeth's relations with Parliament						
	in duties of a monarch was to leave an heir. For	Parliament could only meet when Elizabeth asked them to, and could only discuss the topics she set. However over her reign some MPs became more assertive over certain issues:						
Elizabeth to have a legitimate heir she would have to get married. Elizabeth had three real choices: marry a foreign king/prince, marry an English noble or stay single. At different points in her <b>reign</b> each of the three men below were suitors of Elizabeth. If Elizabeth did not marry it was likely that Mary Queen of Scots (Elizabeth's closest relative and a Catholic)n would become Queen of England. This was worrying for Protestants and Puritans in England. In 1587 Mary was executed, this meant Elizabeth's closest relative		<b>Marriage</b> Some MPs thought Elizabeth should marry to produce an heir. Elizabeth's response was that it was private, and she banned parliament discussing her marriage.	<b>Religion</b> Elizabeth was a Protestant, and changed England from a Catholic country to a Protestant. However some Puritans wanted her to take the religious changes even further. Elizabeth refused, and banned Parliament from discussing religion.	particular good in that good, someti money from 'givir complained about the 1601 parliame taxes until she wi	<b>opolies</b> these give one noble the sole licence to sell a icular good in England. Because one person sold all of good, sometimes prices rose too much. Elizabeth made ey from 'giving' nobles monopoly licence. MPs plained about monopolies in the 1597-8 parliament and 1601 parliament. They refused to agree to Elizabeth's is until she withdrew some monopolies. Elizabeth agreed, made a speech flattering parliament, called her 'Golden ech'.			
was Mary's sor	n, James VI of Scotland, who was a Protestant.	KPI 5 Elizabeth's authority at the	e end of her reign		All	liance An agreement between countries to		
began to write	beth did not name James as her heir, in 1603 Cecil e to James to arrange the succession, and when I 23 <sup>rd</sup> March 1603, James was made King of England on D3.	1587, when he was 21. Essex beca	le Earl of Essex from his father in 15 time the queen's favourite, becomin rine, which made Essex a lot of mon	g a Privy Councillor in 1595, and		help each other tholic Christian who follows the Pope Ceremony crowning a new king or queen		
Choice	Positive/Negative					action A group of politicians ourite Someone who the King or Queen		
Marry a foreign king: King Phillip of Spain Marry an English noble: Robert Dudley, Earl of Leicester	<ul> <li>Positive: She would have a powerful ally in Europe, and hopefully an heir, and would be marrying an equal.</li> <li>Negative: As England was a patriarchal society her husband would have more power than her in England. When Elizabeth's sister Mary was queen, the English thought that her husband Phillip of Spain had too much power in England. Phillip was Catholic, while Elizabeth was a Protestant, so it was unclear which religion any heir would be raised as</li> <li>Positive: She would have an ally in England, and hopefully an heir. Dudley was a Protestant and a favourite of Elizabeth.</li> <li>Negative: This would cause conflict between the different noble families, and as England was a patriarchal society, her husband would have more power than her. There were rumours that Dudley had his wife murdered so that he could marry Elizabeth, these rumours made it impossible for Elizabeth to</li> </ul>	Essex had a rivalry with Robert Cecil, son of William Cecil. Essex had a military success in 1596, but in 1598 he got into an argument with the Queen and turned his back on her. Elizabeth then hit him, and Essex had to be stopped by other councillors from pulling out his sword. Elizabeth put him under house arrest.Faction Someone w preferredIn 1599, when he was forgiven, Essex was made Lord Lieutenant of Ireland and sent to stop their rebellion. He failed, and on returning to England did not have his sweet wine monopoly renewed. He relied on this income to pay back his debts.HeirSomeone to youIn 1601, angry and poor, Essex plotted to remove his rival Robert Cecil from power. In Feb 1601 Essex took 4 Privy Councillors hostage, and with 200 men, marched to London. Cecil, hearing of the plan called Essex a traitor, and may of the rebels abandoned. Essex returned to his house and found his supporters had gone, and the hostages has been released. Essex was arrested, and two weeks later he wasMP Member of Noble ParliamentAlthough Elizabeth faced plots against her in the 1570s and 1580s, by the end of her reign many people's attention had moved on from Elizabeth and looked to the future - to James. However she still showed herself able to command the loyalty of the English. This was for two main reasons:Parliament Parting rewParliament A group of a Close Parlia						
Stay single	marry him. <b>Positive:</b> She would keep her independence, and would not run the risk of dyeing in childbirth. She could also use the possibility of a marriage to help make <b>alliances</b> with foreign nobles/kings. <b>Negative:</b> There was a high chance that her cousin, the Catholic Mary Queen of Scots would become Queen of England when Elizabeth died.	2 For any kind of rebellion to succeed they need popular support. However under Elizabeth most people had relative religious freedom, and even those who didn't still often felt better off than under Mary who burned 289 people over religion, and the main alternatives for a ruler were foreign kings or queens, which most English people did not want.				RebelTo rise up against the King or QueenReignThe years a person was King or QueenRoyalWhen the King or Queen travelledround Englandround EnglandereignHaving complete powerraitorSomeone who went against the Queen		

Eliz	abeth 3: a 'Golden Age'	К	KPI 7 Living standards and fashions							
KPI 6 Social Structure				The Rich			The Poor			
The Rich	The Monarch Used patronage to keep nobl Nobles and Lords About 50 families owning 179 cultivated land.			Der • Nev pat	rbyshire. Historians have called th w building styles became fashiona ttern of bricks	ble, such as chimneys decorated with a twisted	<ul> <li>A poor man's cottage had one room with an earth floor, walls made of wattle and daub, and a thatched roof</li> <li>Animals often lived in the house as well</li> <li>The fire was always lit and used for heat, light, and cooking</li> <li>Candles were expensive so the interior was often gloomy</li> </ul>			
	<b>Gentry</b> Smaller landowners		iving tandards	ent	tertainment	from collecting rent so they had lots of time for popular. Men also engaged in sports like	bedrooms, brid	<ul> <li>Those who earnt a little money and became yeomen could add separate bedrooms, brick chimneys, and glazed windows.</li> <li>Farmers and labourers worked long hours, from 5am to 5pm</li> </ul>		
The Gentr	Wealthy Merchants and Professionals Businessmen and middle-class professionals including lawyers and teachers.			• The		ts with dozens of guests were frequently held. ted at home by visiting tutors, learning foreign ch as Greek and Latin	<ul><li>their children f</li><li>Leisure time w</li></ul>	The lower classes received little/no education. The poor could not their children to school Leisure time was spent in the inn or <b>tavern</b> , gambling or playing ca Fishing and watching plays performed by strolling players, were oth pastimes		
	Yeomen and Tenant Farmer Farmers who owned or rente amount of land.					off their <b>wealth</b> and <b>status.</b> They would have a a a a a status a a a status a a a status a a status a statu				
e	b C 		ashions	<ul> <li>The rich wore clothes made from the finest materials such as silk, linen, and velvet, Nobles and their wives often wore clothes studded with jewels, and large ruffs.</li> <li>Jewellery such as bracelets, earrings, and rings helped to project status.</li> </ul>			<ul> <li>The poor usually owned just one set of clothes due to their poverty</li> <li>Clothes were made from cheap, hard-wearing materials such as leather and felt.</li> </ul>			
KPI	8 Rise of the Gentry	KPI 9 Reasons	for the incre	ease ir	n poverty	KPI 10 Attitudes to poverty & reasons for the	government actior	า		
Whe		Cause	Detail		How did it cause poverty?	The increase in poverty led to the rise of vagram				
cou by c mer mak yea	The landlords of the countryside. They made money by charging the poor rent. A member of the gentry might make between £10 and £200 a year, and were sometimes				There were more people but the same amount of food and jobs	<ul> <li>vagabonds were unemployed homeless people were from town to town. There were several differer vagrant, eg:</li> <li>Abraham men: pretended to be mad to get sympathy</li> <li>Hookers: used a hooked stick to steal valuable</li> </ul>	nt types of 2. Wander 3. Villages charity and high <b>poor</b> 4. Vagrant		ear that <b>vagrants</b> would commit crimes ering vagrants could spread disease rapidly es with large numbers of vagrants would need to pay a <b>r rate</b> nts were seen as people who might be persuaded to join a against Elizabeth	
	Ithier than poor <b>nobles.</b> ? The increasing		Price of wh		Wages did not increase at the	KPI 11 Responses to poverty		1		
рор	ulation in Elizabeth's <b>reign</b> nt that rents increased,	Inflation	increased b 250%	ncreased by same rate as prices so people		<b>1572: Harsh Punishments</b> At the beginning of Elizabeth's reign, the govern	nment put in place source		1601 Poor Law	
also mea able	also the stability of her reign meant that some people were able to become rich		Rad barvosts in		Not enough food was produced, causing prices to increase rapidly	vagrants should be whipped and burnt through didn't work and there were still 10,000 vagrants	72 Vagrancy Act stated that the ear with a hot iron. This		The 1601 Poor Law was the first attempt by the government to put in place a complete system for dealing with the poor. It remained in place for over 200 years. The Poor Law stated that:	
gair <b>Jus</b> serv	ember of the gentry might power by being made a <b>ice of the Peace</b> , or ing in <b>Parliament.</b> Some	Sheep farming	Landowners began to re sheep for th wool	ear heir	With more sheep, less land was used for growing food so prices rose	<ul><li>treated them differently:</li><li>The Deserving Poor (willing but not able to</li></ul>	ct for Relief of the Poor divided the poor into two sorts and		<ul> <li>Four Overseers of the Poor be appointed in each parish to help JPs deal with the poor</li> <li>Everyone should pay a poor rate to pay for dealing with the poor</li> <li>Begging and vagrancy were made illegal</li> </ul>	
		Dissolution of the Monasteries	Henry VIII s down the <b>monasterie</b> 1536-1540	es	Monasteries had provided poor relief and care for the sick. Now the poor had to fend for themselves.	for by a <b>poor rate</b> The <b>Underserving Poo</b> r (able but not willing to work) were punished in a <b>House of Correction</b>		<ul> <li>The deserving poor were provided with tools to work. Children were given apprenticeships</li> <li>The undeserving poor were sent to the House of Correction</li> </ul>		

		KPI 13 the Theatre's achievements	KPI 16 Drake, Hawkins and Raleigh					
There were no theatres in England in 1558. By 1603, Elizabeth's death, there were theatres across the country. UNTIL 1572: BANDS OF STROLLING PLAYERS Before Elizabeth's reign, groups of actors toured the country, performing in inns and market squares. Rich families sometimes had private showings at home. 1572- 1576: FORMATION OF THEATRE COMPANIES The authorities feared strolling players spreading popular unrest and that large gatherings at plays spread disease. In 1572 strolling players without a licence from the Lord Chamberlain were banned. This led to the formation of theatre companies such as The Queen's Men (1583) and The Lord Chamberlain's Men (1594). AFTER 1576: BUILDING THE FIRST THEATRES As plays became popular, inns became too small to stage them. In 1576 the first theatre, called The Theatre, in London was built. Other		The building of theatres required new plays to be written. Elizabeth's reign has come to be seen as a 'Golden Age' of English drama. William Shakespeare The most important playwright of Elizabeth's reign. He wrote 37 plays in a variety of styles: comedies, tragedies, and historical dramas. Shakespeare's plays were popular with ordinary people and with the Queen. His most popular plays were <i>Romeo and Juliet</i> (1595), <i>Hamlet</i> (1599), and <i>Twelfth</i> <i>Night</i> (1601). In 1564 Hawkins and Drake kidnapped hundred West Africans and took them America where they were sold as slave Hawkins made three voyages capturing people, this was the beginning of the T Atlantic Slave Trade. Hawkins then returned to England whe developed a new style of fighting galle Royal Navy which was faster, lighter a manoeuvrable. With these innovations role as a Commander, England defeate Spanish Armada KPI 17 Drake's circumnavigated the globe betw he claimed land in the name of Queen bottom of Africa at the Cap of Good H		o South1577-80, the first person to do so.S.However it was dangerous, he started with 5 ships, but only one finished the route. However it bought respect to England through the bravery of the sailors. Drake raided Spanish sailing ships - as a pirate -stealing gold, silver and jewels, a portion of which he gave to Elizabeth. In 1581 Elizabeth rewarded Drake by		burney took him across the Pacific Ocean, round the his journey Drake faced a <b>mutiny</b> , which he dealt		
theatres followed, includir in 1599. Theatres were but		act so men played female parts.			olabe	Something which helps you	MP	Member of Parliament
London because of worries	about public health.			Auth	nority	navigate The government	Mutiny	To try and get rid of the Captain of a ship
KPI 14 Attitudes to the The			KPI 15 Elizabethan sailors		nquet	A large dinner party	Navigate	To sail/find your way
SUPPORT for the theatre Elizabeth loved	OPPOSITION to the Theatre		me of discovery. New technology Lateens which had triangular sails	Circumnavi C	olony	To sail around the world An area of land ruled by	Noble Overseer of the	Wealthy landowner A parish official who gave
the theatre and watched Shakespeare's	The <b>authorities</b>	making sailing faster; Improved astrolabes made it easier to na	weapons made sailing less dangerous;	Cultivated		another country. Land which is farmed	Poor Parliament	out money to the poor. Partly elected body set up
Twelfth Night in 1601.	opposed the theatre because it attracted		-	Deserving	Poor	People who want to work but can't	Parish	to debate new laws The area controlled by
The exciting dramas also made theatre popular amongst	large crowds, which meant crime and the chance of	English merchants began to look example spices like nutmeg fror explorers went on many <b>voyage</b>	Ha	inant rvest use of	Being the most powerful The crops picked to be eaten A type of prison for people who	Patronage	one church Giving rewards/jobs in return for loyalty	
ordinary people. The <b>authorities</b> also	unrest. As a result, they objected to theatres in the city		lia and China. <b>'ivateers</b> to attack Spanish treasure <b>h Main</b> . In 1577, Elizabeth sent Francis	Corre	ection lation	would not work. When the price of goods goes	Poor Rate	A local tax collected to pay for the poor.
used plays as propaganda. <i>The</i>	used plays as centre. Drake on a 3		d the world in his ship, the <i>Golden</i> le brought back £140,000 of treasure.	Justice o	Inn of the	up. A pub	Puritan Ruff	An extreme Protestant A large collar
Alarum for London, for example, showed	Marum for London, for The Puritans Philip was furious but Elizabe		knighted Drake in 1581. By the 1580s,	Pea	ce/JP	Local people who ran local government	Trade Undeserving Poor	Buying and selling People who could work
Catholic Spanish	atholic Spanish banned, thinking it conomy			Lic	cence	Permission from the	_	but refuse to.
soldiers killed Protestants and was	to be the work of the devil and	While no <b>colonies</b> were establis	hed in Elizabeth's <b>reign</b> , the he creation of companies like the East	Lord Chambe	erlain	government to do something. Person who licensed plays	Vagrant	A person without a job moving between towns.
made to encourage anti-Spanish feeling	because they distracted people	India Company, meant that in th	he following century England became	Mona	stery	Religious building	Voyage	A journey on a ship.
during times of war.	from religion.	a <b>dominant</b> trading power						

ELIZABETH 3: Troubles at home and abroad		KPI 18 English Catholicism, Protestantism and Puritanism			KP1 21 The Rebellion of the Northern Earls 1569		
1559	Act of Supremacy and Act of Uniformity		PROTESTANT	PURITAN	Causes	Events	Reasons for Failure
1563	Foxe's Book of Martyrs published	2 Cardinals and bishops 2 Archbishops and bish	1 Queen head of church 2 Archbishops and bishops	1 There should be no head of the church	Unmarried, Elizabeth had no Protestant <b>heir</b> .	rebels marched into leaders lacked a clear pla Durham and held mass 2. No foreign support: Ph	<ol> <li>Poor leadership: the rebel leaders lacked a clear plan</li> </ol>
1563	Council of Trent ends		help lead the church 3 Bible and services should	2 Churchgoers should elect <b>committees</b> to	Catholic nobles the <b>Earl</b> of Northumberland and		2. No foreign support: Philip of Spain was unwilling to
1570	Elizabeth was excommunicated by the Pope	Latin 4 Highly decorated	be in English 4 Little decoration of	run the church 3 Church services	the <b>Earl</b> of Westmoreland wanted to replace her	marched south but fled from the Queen's army	support Mary because he feared she would support
1571	Catholic Ridolfi Plot against Elizabeth		churches and no <b>vestments</b> 5 Priests should be allowed	should be simple and easy to understand	with Mary, Queen of Scots, who they planned	led by the Earl of Sussex. The earls fled	France, not him, if she became Queen
Can	ishop of interburyLeader of the Church in England Important position in Church Protestant thinkerBishop CalvinImportant position in Church Important position in ChurchCardinal Catholic ClergyChristian who follows the Pope Anyone who works for Church Important Christian service	marry 6 <b>Transubstantiation:</b> during <b>communion</b> the bread and wine turned	to marry 6 Did not believe in transubstantiation, but thought bread and wine helped remember Christ's suffering	4 No decoration of churches or <b>vestments</b> 5 No <b>transubstantiation</b>	to marry to the <b>Duke of</b> <b>Norfolk</b> . When Elizabeth heard of the scheme and summoned the earls to London, they refused and rebelled	to Scotland in Jan 1570. Northumberland was executed in 1570 and Westmoreland fled to <b>Flanders</b> . Elizabeth executed over 800 rebels.	3.Elizabeth's popularity: few wanted Mary to replace Elizabeth or wanted the Pope to return as head of the church
	nmunionTo meet in the middlepromiseElected groups of people	KPI 19 The question of relig	gion		KPI 22 Excommunication, 1	570	
Com E Excomm Foxe's	ImitteesReligious beliefDoctrineBanish from Catholic ChurchbunicateBook detailing gory deaths ofBook ofProtestants under Mary IMartyrsThings you have to doJunctionsJustices of the PeaceJPsLanguage of CatholicsLatinEliza's Archbishop of Canterbury	Before 1532 England had been Catholic. In 1532 Henry VIII made himself head of the Church in England & introduced English bibles. Henry remained a <b>Catholic</b> but there were many Protestants in England.	Henry's son Edward VI made England more Protestant introducing new Protestant Prayer Book in 1549, making church services in English, not Latin amongst others.	Mary I restored the power of the pope as head of the church She put church services back into Latin. Burnt 289 Protestants for refusing to convert.	The Papal Bull Pope Pius V issued a Papal Bull in February 1570 which excommunicated Elizabeth and called upon all Catholics to remove her. This provided a motive for rebellion and foreign invasion. This created a problem for English Catholics: follow the Pope and commit treason or be loyal to the Queen. Elizabeth's Response Elizabeth issued the 1571 Treason Act which: 1 Made it treason to declare that Elizabeth was not the lawful Queen, 2 Made it treason to publish the Papal Bull, 3 Allowed Elizabeth to confiscate property from Catholic exiles Elizabeth also set up a new Council of the North which reduced the powers of the		
Miss	ionaries Members of Parliament	KPI 20 Elizabeth's Religious Settlement			northern <b>earls</b> .		
Pray Pro	Body debating new lawsMPsWhat is read out in churchcliamentChristian who rejects Popever BookExtreme ProtestantotestantHead of the Catholic ChurchPuritanPeople who refused to go toPopeChurchecusantsProtestant change	In 1559, Elizabeth presented via media or 'middle way' v Catholic practices, rejecting Uniformity were a mixture of strictly enforce her settleme was a small fine of 12 shillin open windows into men's so	which created a church with g <b>Puritanism</b> . Her 1559 Acts of Protestant and Catholic id ent because she did not wan ngs for recusants which was r	both <b>Protestant</b> and of Supremacy and eas. Elizabeth did not to cause a rebellion. There	<ul> <li>KPI 23 Elizabeth's response to the rebellion and the Excommunication</li> <li>From the late 1560s onwards, Elizabeth was forced to abandon her policy of toleration in response to three threats:</li> <li>1. Seminary Priests trained by William Allen in Douai, Flanders were sent to England to restore Catholicism arriving from 1574</li> <li>2. Jacuit missionaries lod by Edmund Campion began to arrive in England in 1580</li> </ul>		
R Ride Transubs Ves	Reform Catholic attack on Elizabeth White linen robe Iolfi Plot Key Catholic belief Surplice Priests' traditional clothes Latin for 'Middle Way'	<ul> <li>Protestant <ul> <li>Elizabeth, not the Pope, was head of the Church</li> <li>Elizabeth was named 'Supreme Governor' of the Church</li> <li>All clergy had to swear loyalty to Elizabeth</li> <li>Edward's Protestant prayer book to be used.</li> <li>Recusants were fined a shilling per week that they did not go to church.</li> </ul> </li> <li>Catholic <ul> <li>Archbishops and bishops would help Elizabeth run the Church</li> <li>Recusants were fined a shilling per week that they did not go to church.</li> </ul> </li> </ul>			<ol> <li>Jesuit missionaries led by Edmund Campion began to arrive in England in 1580. They swore to destroy Protestantism.</li> <li>The Papal Bull excommunicating Elizabeth.</li> <li>Elizabeth's response to recusancy grew stricter: 1581: Recusancy fine increased to £20 and converting people now treason 1581: Edmund Campion tortured and hanged in the Tower of London 1585: All Jesuits and Seminary Priests must leave the country or be killed, anyone helping them to be arrested 1593: Catholics forbidden from moving more than 5 miles from home</li> </ol>		

	atholic Threat	KPI 24 Catholic Plots				
1559	Elizabeth's religious settlement	Ridolfi Plot, 1571	Throckmorton Plot, 1		Babington Plot, 1586	
1568	Mary, Queen of Scots arrives in England	Roberto Ridolfi, an Italian banker, hatched a plot with Philip of Spain to invade England, replace Elizabeth with			In 1586 <b>Walsingham</b> discovered coded letters between Mary and Anthony	
1568	Seminary college set up in Doaui	Mary, and marry Mary to the <b>Duke of Norfolk</b> . However, <b>William Cecil</b> and Francis <b>Walsingham</b> discovered the plot.			Babington, a Catholic noble, plotting to overthrow Elizabeth with the help of a	
1569	Rebellion of the Northern Earls	Norfolk was executed and Ridolfi was expelled from	executed. Mary was b	anned from receiving	Spanish invasion. In August 1586,	
1570	Pope issues Papal Bull	England. MPs wanted Mary executed but Elizabeth refused as she believed executing a queen went against God's will.	visitors and all her ma Walsingham.		Babington, and six others were executed. Mary was executed in 1587.	
1571	Treason Act		-		-	
1571	The Ridolfi Plot	KPI 25 Mary Queen of Scots background, treatment and prob	lems	KPI 26 Execution and impact		
1581	Edward Campion executed	Mary was Elizabeth's cousin, her closest living relative, and a C	atholic. She had	In October 1586 Mary was put	on trial for treason. There were 36 noble	
1581	Recusancy fine increased to £20	been married to the King of France until he died in 1558, and b	y the 1560s was	men whose job it was to decid	e on the case. Mary was not allowed to see	
1583	The Throckmorton Plot	Queen of Scotland, and had a son, the Protestant James. She b unpopular in Scotland, and was forced to flee in 1567, leaving		that as she was a foreign quee	t even so she made a good case. She argued een, and not English, she could not be	
1585	All Jesuits required to leave England	as King of Scotland.			on 25 October 1586 she was found guilty ite the evidence, Elizabeth did not go	
1586	The Babington Plot	Mary was given refuge in England. Many Protestants were scare		ahead with he execution at fir	rst. She was worried about the	
1587	Mary, Queen of Scots executed	Mary was likely to become Queen of England and to begin perso Many MPs saw Mary as a security threat and wanted her execut	ed, but Elizabeth	Catholic King of Spain.	from Mary's son James, or from the	
1591	Catholics forbidden from gathering	refused, she did not want her enemies getting ideas and execu want Catholic rulers in Europe coming help Mary. Instead Mary				
Abdication Confiscate Council of the North Death Warrant Douai Duke of Norfolk	A monarch giving up the throne Take away Group enforcing the Queen's authority in North of England Authorization of execution Town in Flanders Powerful noble	but a prisoner, for 19 years. For most of this time Mary was not plots to overthrow Elizabeth, although she did inspire plots as alternative queen. Elizabeth used her spymaster Walsingham to keep track of Mary uncovering of the Babington plot, which showed Mary aimed to killed and herself made Queen of England.	executed on 8 <sup>th</sup> February. The execution was carried out in private, and Elizabeth had the privy councillor who delivered the warrant briefly imprisoned. With Mary gone the threat should have gone, however some Catholics saw Mary as a martyr and Elizabeth had proven that an anointed ruler could be killed. The kings of France and Scotland expressed their outrage but took no action. Philip was unable to fund plots to bring Catholicism back so carried out the Armada.			
Durham Earl	City in the North of England Type of powerful noble	KPI 27 The nature and ideas of Puritanism				
Excommunicate Exiles Flanders Heir Intervene Jesuits Mass Papal Bull Philip of Spain Recusancy Seminary Tolerant Treason Walsingham William Cecil	Banish from Catholic Church People who flee a country Part of modern Belgium Next in line to the throne Get involved in Anti-Protestant Catholic group Catholic church service Public order from the Pope Very Catholic king of Spain Refusing to attend church College for Catholic priests Not strict Going against the monarch Head of Elizabeth's spies Elizabeth's main advisor	<ul> <li>There were many high profile Puritans in government including Walsingham and Dudley, but some were more outspoken than others:</li> <li><b>1.Peter Wentworth MP</b> was imprisoned in 1576 for demanding debate on religion in Parliament</li> <li>2. From the 1570s, meetings of Puritans, known as phrophesyin became popular, during these meetings the clergy would criticic Elizabeth's Church. The Archbishop Edmund Grindal encouraged these meetings, so the queen suspended him when he refused to ban the meetings.</li> <li>3. Both Robert Dudley and Francis Walsingham were moderat Puritans who used their role in the Privy Council to push for Puritan change, and to protect Puritans such as Thomas Cartrig However by 1590 they were both dead, so Archbishop Whitgift able to carry out his persecution of them unopposed</li> </ul>	Catholicism and religion. Many during Mary I's to flee to Protes se d 1 Priests wearing celebrating sai (e.g. stained gl e within the chur Puritans believ tht. based upon reliver was black and white	d to get rid of all traces of d introduce a 'purer' form of Puritans had been <b>radicalised</b> reign when they had been force estant countries and accepted th tantism of <b>Calvin</b> . <b>Puritans opposed:</b> ng vestments/a surplice 2 nts' days 3 Church decoration ass windows) 4 The role of bisho ch ed that everyday life should be gious belief, so they wore simple e clothing, rejected the theatre and studied religion on Sundays.	e A new High Commission was created with the power to fine and imprison Puritans who did not conform.100s were dismissed or imprisoned. Puritans began making more extreme pamphlets, one publisher John Stubbs	

ELIZABE	TH 6: The Sp	anish Armada		KPI 28 Reas	sons for the Armada		
1566	Dutch Protestants rebel against Spain		Philip II / Religion	War in the Nether	Privateering		
1567	Spanish army crushes Dutch rebellion		Philip II, the King of Spain, wantedIn 1566, Protestants in the Netherlands rebelled against the Catholic rule of			Elizabeth encouraged English <b>privateers</b> to attack Spanish treasure	
1575	Dutch Prote	stants rebel again	to use the power of his empire to				
1585	Elizabeth si	gns the Treaty of Nonsuch	attack Protestantism	arresting 18,000 re	bels and burning th was worried about	<b>Spanish Main</b> . In 1577, Elizabeth sent Francis	
1587	Execution o	f Mary Queen of Scots	across Europe. The 1570 Papal Bull	having such a large	e Spanish army so near her Privy Council was	Drake on a 3 year	
1587	Drake raids	Cadiz	meant he had a	split between Willi	iam Cecil, who	world in his ship, the	
1588	Drake raids CadizSpanish Armada28 May Armada sets sail from Lisbon19 Jun Forced to return to Corunna21 Jul Leaves Corunna27 Jul Sighted off English coast6 Aug Anchors off Calais7 Aug Lord Howard sends fireships8 Aug Battle of Gravelines9 Aug Elizabeth's speech at Tilbury Armada forced north by wind12 Aug English fleet turns back		holy duty to attack Elizabeth. The death of Mary, Queen of Scots ended his plan of putting a Catholic ruler on the English throne and he planned a 'holy crusade' against Elizabeth.	help the <b>Dutch</b> . El provide unofficial money and weapor war broke out agai 1585 <b>Treaty of No</b>	nted to intervene to izabeth chose to support, supplying ns. However, when n Elizabeth signed the <b>nsuch</b> with the Dutch ,000 troops led by the England and Spain	Golden Hind, to attack Spanish ships. He brought back £140,000 of treasure. Philip was furious but Elizabeth knighted Drake in 1581. By the 1580s, privateering was starting to have a serious impact on the Spanish economy.	
	Armada	A large force of armed ships	Key Individuals				
G	Armada CadizA large force of armed shipsCadizImportant Spanish portCalaisImportant port in FranceCorunnaSpanish portCrescentHalf moon-shapedDutchFrom the NetherlandsEarl of LeicesterPro-war Privy CouncillorFireshipsUnmanned ships set on fireGalleonsLarge, heavily armed shipsGolden HindFrancis Drake's shipGravelinesFrench town, near CalaisJohn HawkinsEnglish sailor and slave traderMade a 'Sir' by the QueenLeader of English fleetNetherlandsImportant part of Spanish EmpirePrivateeringUsing private ships to raidCountrySeasoned woodSpanish MainSpanish territory in AmericasTilburyPort in EnglandTreaty of NonsuchDeal between Dutch and EnglishWarning beaconsWilliam Cecil		Philip II Ruled over huge Spanish empire, including Americas and Netherlands. Ex- husband on Mary I. Devout Catholic.	Duke of Parma Appointed to lead Spanish army in Netherlands. Experienced and feared general but failed to meet Armada.	Duke of Medina Sidonia Devout Catholic keen to destroy Protestantism but inexperienced at sea. Forced to lead Armada by Philip.	Francis Drake English pirate and privateer. Raided Spanish shipping in the <i>Golden</i> <i>Hind</i> and attacked the Armada at Cadiz in 1587. Vice-admiral of the English fleet.	
Lo N Seas Sp Treaty Warni						eir Francis Drake	

KPI 29 The Course of the Armada					
Philip's Plan In 1586, Philip planned to build an armada of ships to sail north from Lisbon, defeat the English fleet, pick up the Duke of Parma's army from the Netherlands in huge barges, land in England, and overthrow Elizabeth.	<b>Drake's attack on Cadiz</b> In April 1587, Francis Drake attacked the Armada in Cadiz harbour. Drake destroyed 37 ships and burnt supplies of <b>seasoned wood</b> used to build waterproof barrels. Drake's attack delayed the Armada for a year.				
Medina Sidonia prepares On 9 May Medina Sidonia gathered his men and sealed them into Lisbon Harbour, waiting to leave. However, they didn't leave Lisbon until 28 <sup>th</sup> May, during this time the Spanish sailors ate much of the food they had stored on the ships.	England prepares for invasion Warning beacons were set up on the coast. Unlike Parma's army, the English force of 20,000 men was inexperienced. Elizabeth stationed three armies: in the North, in Kent, and at Tilbury in Essex. Lord Howard, Drake, and John Hawkins led a fleet of 200 light and fast ships.				
The Armada spotted from Cornwall, 29 <sup>th</sup> July With 127 ships including 20 galleons, 30,000 men, and 1,900 cannons, the Armada entered the Channel in a crescent formation, with galleons protecting unarmed store ships. On July 31st the English fleet pursued the Armada but they only sank two Spanish ships.	Howard's first attack On 2 <sup>nd</sup> August the first full attack on the Spanish began, with Lord Howard attacking Medina Sidonia's own galleon. Howard's men fired over 500 cannon balls, but Sidonia's ship only fired 80. This convinced Howard that although it would be hard to sink the Spanish ships, the English had little to fear from the Spanish guns which were difficult to reload.				
The Battle of Gravelines, 8 August With the Armada scattered, the English fleet attacked. After 8 hours, the English had sunk 3 Spanish ships and killed 1,000 sailors. The English lost 50 sailors and no ships. It was now difficult for the Armada to join with Parma's army, although an invasion was still possible.	Calais and the Fireships The Duke of Parma was delayed by Dutch rebels and the Armada had to wait for a week off Calais. On 7 Aug, Lord Howard sent 8 unmanned burning ships into the Armada. The fireships caused the Spanish galleons to panic and they broke their crescent formation.				
Elizabeth's speech Fearing a Spanish invasion, delivered a rousing speech to her army on 9 <sup>th</sup> August: "I know I have the body of a weak and feeble woman, but I have the heart and stomach of a Kingand I think foul scorn that any prince of Europe should dare to invade my realm."	Pursuing the Armada On 9 <sup>th</sup> August, the wind changed and the Armada was blown north, pursued by the English fleet. The Armada could not sail back to Spain against the wind had to travel around Scotland and Ireland to get home. On 12 <sup>th</sup> August, the English fleet turned back due to a lack of food.				
The Armada returns to Spain The Spanish had no maps of Scotland and Ireland. On the journey back to Spain 27 ships were wrecked and thousands of sailors drowned, only 13,400					

men returned to Spain. Only 92 of the original 127 ships made it back to Spain in the autumn, and only 40 of these could be used again.

1 English strengths: the English ships were Some change: 1 Great celebrations in England, 2 No more Catholic plots after faster and more manoeuvrable than the Spanish galleons. The leadership of Howard 1588 3 Increased anti-Catholic feeling and Drake was crucial: the use of fireships in England was a turning point. But mainly continuity: 1 War with 2 Spanish weaknesses: Spanish cannons Spain continued until 1604 2 Philip were made of poor-quality iron. Leadership soon built another 100-ship armada but was poor: Medma Sidonia was inexperienced it was driven back twice by storms 3 and Parma failed to turn up on time. Conflict in the Netherlands continued **3 Weather:** the wind forced the Spanish with Elizabeth supporting Protestants northwards and they had no maps for this against Parma 4 English privateers route nor food and water for a long voyage. continued to attack Spanish ships Aug-Sept: Sails past 9 Aug: Armada sails Scotland and Ireland into North Sea 8 Aug: Battle of Gravelines 6 Aug: Arrives at Calais 7 Aug: Fireships sent into Calais harbour BRITAIN 29 July: Sighted off Cornwall 31st July-4 Aug: Attacked by English ships 21 July: Sets sail FRANCE for England 19 June: Arrives

KPI 31 Results of the Armada

KPI 30 Reasons for Failure



#### Q1 Study interpretation A. How convincing Q3 Write an account of W. [8] is interpretation A about X? [8] This is the same as Q3 <u>SENTENCE</u> STARTERS SENTENCE STARTERS CHECKLIST For causes: Vietnam & Korea $\checkmark$ Link to the question One cause of W was... Int. A suggests that X .... ✓ Provide two points reason for W was CHECKLIST This is because it says... about the question For example... Note down two This can be supported with $\checkmark$ from interpretation A. This led to W the knowledge that... causes/consequences/ $\checkmark$ Support each point because... This is convincing as events related to W with knowledge Repeat (explain) ✓ Explain how your Or Write a paragraph knowledge proves the For consequences and repeat explaining one interpretation One cause of W was... cause/consequence/ev reason for W was ent in W, including For example... Q2 What was important about Z? [8 marks] $\checkmark$ specific own This led to W knowledge CHECKLIST because... SENTENCE STARTERS ✓ Explanation of Repeat Link to the question this One way in which Z was important was... Or Provide two points Write a paragraph More specifically... For events about the importance explaining one This shows that Z was important because... The first event of W of Z cause/consequence/ev Another way in which Z was important was... reason for W $\checkmark$ Explain each point ent in W, including was... ✓ L4 needs a complexity was ✓ specific own More specifically... For example... - how the importance knowledge This shows that Z was important because... This led to ... has changed/for Explanation of The importance changed/differed etc... Repeat different groups etc. this

## Q5 The main change/cause/consequence that X demonstrated was Y. How far does a study of the Spanish Armada support this statement?

## <u>CHECKLIST</u>

- Make an overall judgement about how far you agree
- $\checkmark\,$  Make three points
- Make three points that show that the main change/ cause/ consequence that X shows was..
  - Y
  - Something else
  - Either another change/cause/ consequence or Y/P
- ✓ Support each point with evidence from the Spanish Armada
- ✓ Explain how your evidence shows that change/ cause/consequence
- ✓ Give an overall judgement showing the MAIN cause/ consequence/change

## [16 marks] <u>SENTENCE STARTERS</u>

One change/cause/consequence of X was Y. More specifically... (include some evidence from Spanish Armada)

This shows that Y was change/cause/consequence of X because...

A second change/ cause/ consequence of X was P. More specifically... (include some evidence from Spanish Armada)

This shows that P was a change/cause/consequence of X because...

A third change/ cause/ consequence of X was (Y, P or a new point). More specifically... (include some evidence from Spanish Armada) This shows that... \_\_ was a change/cause/consequence of X because...

Overall the main change change/ cause/ consequence that X demonstrated was \_\_\_, despite... The main change change/ cause/ consequence that X demonstrated was \_\_\_

Total marks	Component 2 Veer 11
60.	Component 3. Year 11.
Activity 1	Carry out research to support you in the generation of ideas in response to the brief. Complete an
Ideas log.	ideas log on the development of your chosen idea for a media product in reponse to the brief. You
	must provide information on:
2 hours	-Your initial ideas and how your idea will meet the target brief, with reference to – your target
supervised	audience and how any other media products have influenced your ideas.
conditions.	-The content of your idea and how it will be structured into pages and how the content meets the
	requirements of the brief.
15 Marks.	-The style that will be used in your idea.
	Assessment is on your interpretation of the brief, development of ideas and consideration of target
	audience.
Evidence to	Mind Map of your initial ideas
provide for	At least 3 ideas explained
Activity 1 &	1 idea chosen giving reasons to why you choose it and why you rejected the other 2
to be	User Requirements Document
completed	<b>Research</b> – how previous research has helped you with your idea and designs
within the 2	Planning documents such as page layout mock ups, experimentation with font styles and colours
hours.	
Activity 2	Produce the layout and design for all the pages of your publishing product. Th epage alyout and
Planning	design should include;
material.	Headlines and straplines
	The positioning of copy, images and any other assets
3 hours	Notes on design features.
supervised	You will be assess on your understanding of and appropriate use of skills and techniques to design a
conditions.	product for a specific audience and purpose.
	You need to collect your assets so you are able to make your product.
15 marks.	These will include images you will take yourself and images you will download from the internet.
Activity 3.	Use your ideas from activity 1, planning materials from activity 2 and assets that you have collected
4 hours	and generated to create your media product in response to the brief.
supervised	Export your product in an appropriate digital file format.
conditions.	You will be assessed on the skills and techniques used in your production and the extent to which
30 marks.	your media product meets the requirements of the brief.

	Key terminology						
Mood board	These are created before a magazine is created to help form ideas about the magazine	Magazine front cover:	Designed to attract attention and show what the magazine is about. It should appeal to the target audience.				
Masthead	The name of the magazine. Goes across the top of the magazine.	Tag line	Goes next to the masthead. Gives an indication of what the magazine is about or who it is aimed at.				
Central image	This is the main image on the front cover. It catches the readers attention. It will be relevant to the purpose and audience of the magazine.	Coverlines	These are located at various points on the front cover. They tell the reader about the contents of the magazine.				
Essential information	Barcode, price, edition. These should be strategically placed and not distort any of the magazine's principle features.	Typography	This is the arrangement of text. This includes adjusting the font size and style to create a hierarchy amongst the masthead and coverlines. It also includes tracking and kerning.				
Tracking	This is the space in between the letters. You can uniformly reduce or increase the tracking to make the text fit a particular space.	Kerning	This is the process of adjusting the spacing between characters in a proportional font, usually to achieve a visually pleasing result. Kerning				

			adjusts the space between individual letter forms.
Analogous colours	These are next to each other on the colour wheel and can help to match the mood of the magazine.	Monochromatic colours	This is the same colour with black or white added to achieve different shades.
Complimentary colours	These are opposite each other on the colour wheel and go well together.	Editing images	This involves preparing an image for your magazine cover to make it effective. This may involve adjusting the brightness to fit the desired mood; cropping the image to remove unwanted parts; layering the image to put text or secondary images on top of or under the image; change the colour of the image to black and white, for example
Purpose	What is the purpose of the media product? Entertainment, escapism, information profit, community benefit, raising awareness, critical acclaim, inspiration, innovation or experimentation.	Target audience	This is the group of people you are creating the media product for. Making the product appeal to and engage the target audience will help to get the message of your product across.
Target audience: Age	Magazines are often targeted towards specific age groups. For example pre- schoolers, children, teenagers and adults.	Target audience: Ethnicity	Your ethnicity is based upon your culture, ancestors, background, nation you come from. Some magazines will target specific ethnicities to reflect particular cultures others deliberately target multiple ethnicities.
Target audience: Gender	Your gender relates to how you identify yourself within society. Many magazines target either male or female gender particularly fashion and lifestyle magazine but some will be more gender neutral.	Target audience: Psychometric groups	These groups are based upon peoples' values, attitudes and lifestyles (VALs). There are 7 groups all with different VALs: succeeder, struggler, explorer, mainstreamer, resigned, aspirer, reformer.
Target audience: socio- economic groups	These groups are based upon the income and occupation of the head of the household. The different groups are: A upper middle class, B middle class, C1 lower middle class, C2 skilled working class, D working class, E those at the lowest level of subsistence.	White space	This is not necessarily white – it can be any colour. They are the areas on a magazine page that <i>deliberately</i> empty.
Active white space	This is white space that has been designed to guide the reader through the page. It may encourage a reader's eye to read a particular section of information before moving onto the rest.	Passive white space	This improves the aesthetics of the layout without guiding the user through a specific reading or content order.
Micro white space	This refers to the very small areas of white space between design elements— for example between individual letters (tracking) and between paragraphs. It has a direct impact on content legibility.	Macro white space	These are large areas of white space that are intended to add to the overall design of the page.

## Year 11 – BTEC Music Component 3 Music Knowledge Organiser

	Elements of Music				
Pitch	The pitch is how high or low the sounds/notes are. For example: A scale of notes rises in pitch by step.				
Тетро	The tempo is the speed of the music. For example: how fast or slow the music is being played.				
Dynamics	The volume of the music. For example: how loudly or quietly the music is being played.				
Duration	The length of notes. For example: a minim lasts for two beats.				
Texture	The layers within a piece of music. For example: how thick or thin the music is and how the parts within the music relate to each other.				
Timbre	The quality and type of sound produced by an instrument. For example: string, brass, percussion, woodwind, voice.				
Silence	The absence of music sounds. For example: in music, rests are written to show where the player should be silent.				

Personal and professional skills for the music industry					
Time management	The ability to manage your time well in all processes involved within the music industry.				
Self-discipline	The ability to stick to your plan and commit to your rehearsal/practise session.				
Working with others	The ability to communicate well with your peers and to work together well to create the final music product.				
Correct and safe use of equipment	The ability to maintain and correctly use musical equipment, including musical instruments, and electrical equipment.				
Maintaining a development plan	Keeping a log of your journey, always referring back to the skills you are developing with regular check-in points.				

Composition Skills					
Creating chord sequences	Using major and minor triads from within a key to create patterns of chords.				
Using musical starting pointsUsing a musical/visual stimuli to inspire continu an initial idea.					
Exploring musical structures	Taking inspiration from other pieces of music or songs to create a structure that suits your idea. E.g. ABABA, popular song, variations on a theme.				
Using rhythmic and melodic rhythms	Exploring and creating patterns of notes in certain orders to create playable rhythms for both accompaniment and for melodies (tunes)				

Key Performance & Rehearsal Skills				
Rhythm and timing	Being able to play rhythms accurately and stay in time with other musicians, keeping the music together.			
Accuracy of pitch	Being able to sing or play the correct notes, ideally from sheet music.			
Intonation/tuning	Being able to stay in tune and not go sharp or flat when playing or singing.			
Phrasing & breath control	Controlling your breathing so that you can sing or play through a phrase showing musical shape.			
Learning repertoire & following an accompaniment	Being able to tackle a new song/piece of music and the ability to follow a live or pre-recorded accompaniment part.			
Instrumental or vocal technique & Musical skills exercises	Breathing exercises, scales, and technical exercises specific to your instrument/voice in order to develop a good technique.			
Creating a practise routine	Organising your practise sessions and keeping a log to ensure development in all areas of performance.			
Stage presence	Having confidence to command the audience and allowing them to engage in your performance.			
Expression & musicality	Having the ability to connect with a song/piece of music and put your own stamp on it, showing emotion.			
Health and safety in the use of equipment	Learning and maintaining high standards of looking after musical equipment of all varieties.			

## **Music Production Skills**

Recording and editing audio (voice and instruments)	Exploring how to record using music technology musical instruments and voices. Also how to edit out errors and record multiple layers.		
Exploring digital recording software and tools	Exploring how to use music technology equipment and computer software to create a music recording.		
Using effects	Exploring the use of reverb, echo, delay, distortion and other vocal and instrumental effects.		

## How you will communicate your music skills development

### Methods of capturing musical development:

Digital or written portfolio – including production notes, rehearsal diaries, annotated photographs/screenshots, milestone performances and reviews, recorded audition, compositional sketches and ideas.

## Keeping a clear and organised approach:

Key points in the process need to be referenced clearly and in chronological order. Your written commentaries must match the quality of your practical work to show your full understanding.

## Preparing for Component 3

COMPONENT 3: RESPONDING TO A COMMERCIAL MUSIC BRIEF

#### **Essential content**

A Understand how to respond to a commercial music brief

#### A1 Features of a commercial music brief

- Creative intentions and purpose of product:
- target audience
- commercial
- collaborative
- experimental.
- Aim, purpose and requirements of the brief.
- Nature of the specific area of the industry.
- Understand the target audience.
- Understanding and linking to the company's vision.

#### A2 Planning to meet the demands of the music brief

- · How investigation and exploration can inform response.
- Understanding the rationale behind the selection of musical material.
- Investigating musical styles.
- Researching relevant material to support meeting the brief.
- The human and physical resources required.
- Proposing structure, version and arrangement.
- Timeline for development, including:
- working out individual parts
- o establishing a personal practice routine
- learning and memorising material if appropriate.
- Format and scope of the final response.

#### A3 Considering constraints and intentions

- Creative constraints:
  - $_{\rm 0}$  technical requirements of the final response format, material and purpose
  - available resources
- feasibility of own ideas
- standing out from similar work.
- Personal intentions:
- personal skills development
- building on own strengths.

B Select and apply musical skills in response to a commercial music brief

#### B1 Develop and produce a response to a client brief

- Working with and interpreting the client brief.
- Organisation skills:
  - identifying priorities
  - setting targets
  - using planning tools and technology.
- Prepare for a project:
- health and safety
- o checking resources and facilities are adequate
- taking measures to safeguard work and having a contingency by backing-up data, anticipating issues, creating multiples and planning alternatives.
- Consider constraints of the brief by:
  - o working within the constraints of the brief
  - o using suitable materials and techniques for the audience
  - o addressing quality issues technical, finish and function.

#### B2 Refining musical skills for a musical product

Learners will develop and refine their skills in creating a music product by creating original music, performing and using DAW as appropriate, during the creative process.

Learners should be able to:

- apply skills in a creative process
- apply industry approaches relevant to a project
- refine musical skills and techniques for a musical product in relation to a chosen context or style.
- Create original music:
- o applying melodic and rhythmic ideas
- use of chords and chord progressions
- use textures/sound palettes
- musical devices, canon, riffs, imitation, sequences
- musical structures, verse, chorus, middle-eight, AABA, riff-l
- o use of composition software if appropriate.
- Perform (if appropriate):
- o selecting material
- working out individual parts
- exploring feels and grooves
- stylistic investigation
- defining structure, version and arrangement
- establishing a personal practice routine
- establishing a group practice routine (where applicable)
- learning and memorising material if appropriate.

- DAW skills (if appropriate)
- selecting material
- capturing audio
- importing audio
- sequencing
- manipulating sounds and using effects
- use of pre-sets and plug-ins.

#### **B3** Refining musical material

- Watching/listening back material for self-analysis.
- Discarding, refining and polishing material and processes.
- Seeking feedback and responding appropriately to criticism.

#### **B4** Personal management

- Being prepared and maximising rehearsal or studio time.
- Working with others.
- Setting goals and monitoring progress.
- Meeting deadlines.
- Adhering to health and safety guidelines and safe working practices.

C Present a final musical product in response to a commercial music brief

The final musical product should show application of skills appropriate to the context.

## **Components of Fitness**

- Aerobic endurance
- Body composition
- Muscular endurance
- Flexibility
- Speed
- Strength
- Power

## **Methods of Training**

- Continuous/ Fartlek/ Interval-Aerobic End
- Circuit/ Core Stability- Muscular End.
- Free Weight/ Fixed resistance Machines-Strength
- Plyometrics/ Anaerobic Hill Sprints/ **CrossFit-Power**
- Static Stretching/ Dynamic Stretching/ **PNF Stretching- Flexibility**
- Interval/ Sprint/ SAQ- Speed

## **Principles of Training**

Specificity- Matching training to Components **Progressive Overload-** Gradually getting harder **Overtraining-** Risk of injury from training workload too quickly.

**Reversibility-** Return to previous fitness when you can't train.

Participant differences and Needs- Training to meet a person's goals based on fitness data. Training Zones- correct training intensity to see improvements.

Maintain Fitness Levels- 50-60% Fat Burning- 60-70% Aerobic- 70-80% Anaerobic- 80-100% Frequency- How often **Intensity**- How Hard **Time-** How long **Type**- Which method

**Key Terms** Maximum Heart Rate-220-Age

**PAR-Q-** Physical Activity **Readiness Questionnaire** 

Lifestyle Questionnairequestions related to occupation, diet, smoking, drinking.

#### **Fitness Testing**

Coopers 12 Min Run- Aerobic End Skin Fold Callipers- Body Composition Sit ups in 1 Min- Muscular Endurance Sit and Reach Test- Flexibility 30m Sprint Test-Speed Hand Grip Dynomometre- Strength Sergeant Jump/ Vertical Jump- Power **Understanding Fitness Programmes** 

Using a person centred approach-

- Likes and Dislikes
- Availability to exercise
- Medical history
- Goal

Establishing Aims and Objectives-

What do I want to be able to do by the end of the training programme.

Aims- What you want to achieve

Objectives- The steps you are going to take to achieve your aims.

## **BTEC Sport**

#### Designing a safe and effective programme-

A programme should contain a series of sessions. Each session needs- Warm up- The main component- Cool down

Training programmes usually last 6 weeks, At the end you review the aims and objectives to see if they have been met.

Key Words – CHEC					
Aim	Flexibility	0			
Aerobic	Frequency	Pi			
Aesthetic	Goal	0			
Anaerobic	Hazard	Ps			
Body	Health	R			
Composition	High Impact	R			
Cardiovascular	High Intensity	Sp			
Core Muscles	Hypertrophy				
Continuous	Load				
Differences	Long Term				

#### Step 1- Question

- Highlight key terms in the exam question.
- Highlight Sport specific terms i.e- Frequency

## Step 2- Point

Introduction- describe the key topic

#### Step 3- Explain

Say how this concept can be used by this athlete. Repeat

### Step 4- Example

How could she use this for the sport in the question

### Step 5- Link

Link all paragraphs together. Come to a conclusion.

## **YOUR SPELLING**

xygen rogressive verload sychological epetitions eversibility pecificity

Strength Stamina Tactics Technique Tedium Time Type Weight Wellbeing



Concept	Remember	Definition	Example related to topic
Components of fitness			
Aerobic endurance	Athletes	The ability of the cardiorespiratory system to work efficiently, supplying oxygen and nutrients to the working muscles during sustained physical activity.	Sustained physical activity- exercise at moderate to high intensity for 30 minutes or longer. Eg Long-distance runners, games players (football, rugby, hockey, netball); swimmers, cyclists.
Body composition	Build	The ratio of fat mass to fat-free mass. Fat-free mass includes heart, lungs, muscle tissue and bone.	Long distance runners-small muscles and very little body fat so they carry less weight. Gymnasts- lots of muscle and little body fat, they need to be light but also powerful. Shot putter- high levels of muscle to create power, often have excess body fat.
Muscular endurance	Muscle	Where a muscle can continue contracting over a period of time against a fixed resistance or load.	Rugby-keep pushing in a ruck or scrum. Rowing- to keep stroke rate high. Football- keep kicking the ball hard. Netball to keep moving at speed.
Flexibility	For	The range of movement around a joint and ability to move a joint fluidly through its complete range of movement.	Gymnasts, athletes, games players (football, rugby, hockey, netball); martial arts competitors
Speed	<b>S</b> peed	The distance travelled, divided by the time taken. How quickly a distance can be covered, or an action performed.	Athletes; games players (football, rugby, hockey, netball), whilst sprinting to get a ball or intercept a pass. Striking/hitting, how quickly you can swing the bat or racquet to hit an object.
Power	Power	The ability to undertake strength performances quickly – SPEED x STRENGTH	Most sports require an element of power, the force applied can be into our own body, into someone else or into an object.
Strength	And <b>S</b> trength	The maximum force (in Kg or N) that can be generated by a muscle or group of muscles.	Related to how much muscle mass a person has. The more muscle the more force they can produce. Rugby players and weight lifters.
			· · · · · · · · · · · · · · · · · · ·
Fitness testing		To test a person's components of fitness to determine	For each test there will be a specific protocol (exactly how the test is
	-	strengths and areas for development in a training programme.	carried out). A warm-up should be conducted before the test,
Normative data		What is usually expected for a specific population.	Normative tables are available for different groups of the population: Girls and boys (14-16), men and women, elite performers and older people 65+
Reliability		The repeatability of results	If the test is repeated in exactly the same way, the same results should be achieved
Cooper's 12m Run	Aerobic endurance	Protocol: You run a set course for 12 mins and measure your distance covered to the nearest 10 metres.	It tests your aerobic endurance, the ability of the respiratory system to work efficiently, supplying oxygen and nutrients to the working muscles). As a running test, it is a less effective measure for cyclists and swimmers.
One Minute Sit Up Tests	Muscular endurance	Protocol: Perform each sit up with correct technique. Complete as many sit-ups within one minute, record score.	Tests muscular endurance in abdominal muscles, which is not necessarily a good indicator for other muscles in the body. Requires a high degree of motivation to push for as many as you can.
Hand grip dynamometer test	Strength	Protocol: With your arm hanging by your side, squeeze a hand grip dynamometer with your dominant hand for 5 seconds.	This tests muscular strength in your hand and forearm. This is not always indicative of the strength of other muscles in your body.
Sit and Reach Test	Flexibility	Protocol: You sit with your feet against a bench and your legs straight. You reach forwards and a partner measures how far in front of your toes you can reach with your fingers.	This measures the flexibility of the muscles at the backs of your legs, (your hamstrings). A person may have better flexibility in other muscles. Results are also dependent on your warm up.
Sargent Jump Test	Power	Protocol: The Sergeant jump is done by jumping upwards. You chalk your fingers and leave a marker on a wall as high as you can. You then jump up as high as possible and touch the wall again leaving another mark. Your partner measures the difference between the 2 marks.	Tests power in the legs.
30- metre sprint test	Speed	Protocol: From a standing start, on 'Go', sprint 30m as fast as you can.	The surface the test takes place on can affect results eg if it is bumpy or slippery.

	Sport-related	Examples of related	Equipment related	Other advantages	Sport-related	Equipment related	Other
	advantage	sports	advantage		disadvantage	disadvantage	disadvantages
Training methods to im	prove aerobic endu	rance.					
Continuous training Fartlek training	For sports with constant work rate /intensity Good for sports with varied intensity (running + sprinting)	10k running, open water swimming, rowing Cross-country running Mountain biking	Very little equipment needed Other than that for the sport eg bike for cycling. Mostly done outdoors so nothing other than space to train is	Can be done on your own whenever you like Can control your own pace so can change intensity as needed and to reduce tedium	Very few sports are at a constant pace the whole time There is no rest period in this type of training	These types of training are often outside and therefore the weather can impact on performance.	People may find it boring. Injury risk running on a hard surface. Takes at least 30mins so
Interval training	Good for sports that have varied intensity with recovery periods	Team sports such as hockey- having to sprint for the ball then jog or walk back to position.	other than space to train is required. It can be done indoors on a treadmill, exercise cycle or rower.	Hebed and to reduce tedunit Helps to plan for progression in the training programme by increasing the intensity of the work periods or decrease the rest periods		Heat can increase fatigue. Cold and wet weather may put people off training.	some people may find it difficult to make time regularly.
Training methods to im	prove muscular end	lurance.					
Circuit training	Stations can be designed for specific activities and muscle groups and also include sport specific skills	Team sports such as volleyball, hockey, football and individual sports such as squash	A wide range of equipment or bodyweight can be used as a form of resistance, so the cost can be minimal	The stations can be varied, and the time spent on each station can be changed so this is good for avoiding boredom	None	Usually, a card or sign shows what is to be done at each station. Stations need to be organised so you use different muscles at each station	This type of exercise is usually performed as a group. This is more sociable but does restrict when you can do it.
Core stability training	Core stability is required for all sports and activities to maintain posture and reduce back injury	All sports	No equipment is needed as most core stability exercises use only bodyweight. A stability ball is low cost	Can be carried out by an individual at times that fit in with their own commitments	None	None	None
Training methods to im	prove strength.						
Free weights	Increase strength over a large range of movement	Specific muscles and groups can be targeted to increase strength	Can be stored and used at home and used for a range of muscles		Movements with weights don't exactly replicate the action in	Cost to buy barbell/dumbbell Spotter needed	If you had no spotter you may injure yourself
Resistance machines	Increase strength of target muscles for specific sport	in these areas eg chest for breast stroke swimmer		Safer for new users less chance of injury, train alone	sport. Strength will increase but range of motion may not.	Very expensive machines which train one muscle group each	
Training methods to im	<u>prove flexibility</u>						
Static stretching	Help to increase flexibility	Increased range of movement at shoulders for a swimmer			aised	None	None
Dynamic stretching	in specific areas required for specific sports	performing butterfly or increase hip mobility to get low across the		Good as part of warm up as keeps heart rate raised			
Proprioceptive neuromuscular facilitation (PNF) stretching		hurdle to increase speed		Helps to develop flexibility at faster rate compared to other types of flexibility training		Requires an experienced person helping	Increase risk of injury if the person helping does not have experience
Training methods to im	prove power						
Plyometrics	Can be specific to the muscles that need power	High jump, long jump, basketball, gymnastics	Equipment is cheap and relatively easy to set up	Can be carried out on own at times to suit the individual	None	Benches and bars need to set up to on/off or over	Can cause injury, muscles experience great stress
Anaerobic hill sprints	Good for high intensity running sports	Cross country running	No setting up or cost required		Only specific to sports that require running	Access to a hill is required	Requires high intensity of work, not for the unfit
CrossFit	Can be made sport-specific	Sprinting, shot put, gymnastics	Equipment relatively cheap and not much to set up	Intensity can be varied to cater for different ability levels	None	A range of equipment is required	
Training methods to im	prove speed						
Interval training	Good for sports that have varied intensity with recovery periods	Team sports where you sprint for the ball then walk or jog back to position	Very little equipment needed Other than that for the sport. Mostly done outdoors so nothing other than space to train is required.	Helps to plan for progression in the training programme by increasing the intensity of the work periods or decrease the rest periods	Does not always replicate the movements from sports as it does not always use sport specific equipment for training	None	This type of exercise if usually performed as a group. This is more sociable but does restrict when you can do it.
Sprint training	Good for sports that require speed	Speed in a straight line eg 100m or the long jump	Inexpensive parachute or bungee ropes can increase resistance	These types of training can use different types of	Only useful for straight sprint	Not much equipment, but needs to be bought and stored	
Sport specific training (SAQ) Speed, agility, quickness	Can be sport specific- such as running and dribbling	Good for sports requiring agility eg rugby, basketball or hockey	Can use cones, hurdles and ladders to move around at pace	equipment which can reduce boredom	None	Not much equipment, but needs to be set up before use	

		Purpose	Example
Macronutrient	Proteins (12- 15% of intake)	Tissue growth – known as the body's building blocks (Amino Acids). There are 22 amino acids- 8 of these are essential amino acids- have to be supplied from food as the body cant make them. Remaining 14 amino acids- Non essential amino acids can be made by the body. Athletes frequently use protein supplements in their diet and will consume protein immediately after training, sometimes as a 'shake'.	Animal products – meat, fish, dairy; plants – lentils, nuts, seeds; protein supplements and shakes.
Macronutirent	Carbohydrates (50-60% of intake)	Source of energy. Stored in the bidy as gylcogen but is broken down into glucose for energy. Divided into: simple carbohydrates – sugars- Which break down quickly providing a burst of energy. Consume if you are feeling tired before, during or after exercise. Complex carbohydrates – starches. Break down slowly, releasing energy over a longer period of time. Athletes need to consume larger quantities of carbohydrates to fuel their training and performance. Prior to an endurance event such as a triathlon, athletes might 'carbo-load' to ensure they have enough to finish the race.	Simple – sugar, glucose, fructose; energy gels; complex – bread, pasta, rice, potatoes.
Macronutirent	Fats (30% of intake)	Source of energy. Saturated fats- solid at room temperature. Too much increases cholesterol in your blood, incerasing risk of CHD. Should be limited. <u>Unsaturated fats-</u> Liquid at room temperature. They are healthier for you're a play a role in reducing the risk of coronary heart disdease. The bosdies secind source of energy after carbohydrates but take a long time to covert to energy. Fats are stored under the skin and are essential for health. Too much fat can limit an athlete's performance due to increased weight.	Monounsaturated – olive oil, avocados; polyunsaturated – oily fish, nuts, sunflower oil, soya beans; saturated – full- fat dairy, fatty meats; and trans fats – many snack foods.
Micronutrient	Minerals	Essential for many processes, eg bone growth/strength, nervous system, red blood cells, immune system. Need small amounts only.	Calcium – milk, canned fish, broccoli; Iron – watercress, brown rice, meat; zinc – shellfish, cheese, wheatgerm; Potassium – fruit, pulses, white meat.
Mirconutirent	Vitamins	Essential for many processes, eg bone growth, metabolic rate, immune system, vision, nervous system. Need small amounts only.	A – dairy, oily fish, yellow fruit; B – vegetables, wholegrain cereals; C – citrus fruit, broccoli, sprouts; D – oily fish, eggs, cereals.

#### Hydration.- Recommended daily intake (RDI) is 2 litres per day.

When you are hydrated you have enough water in your body for it to function properly. You become dehydrated when your body does not contain enough water for it to function efficiently. Signs include- thirst, dizziness, headaches, dry mouth, poor concentration, rapid heart rate.

<u>Water helps to regulate body temperature</u> through sweating and prevents overheating. Body temperature should stay between 36.1-37.8 degree C. Vasodilation is one way to get rid of excess heat. Sweating will reduce body temperature by releasing heat. Dehydration reduces your body's ability to sweat and makes you overheat.

<u>Water keeps blood thin so that it flows around the body easily</u>- Blood cells are carried in plasma, which is mainly water. When blood doesn't contain a lot of plasma it is thick and sticky (viscous). When you are dehydrated the blood becomes viscous, doesn't flow well and means oxygen doesn't get to the muscles as quickly.

Water keeps the joints lubricated- key component of synovial fluid, a clear substance produced in joints to enable them to move smoothly through their full range of movement.

#### Before training and Competition.

When preparing for intense aerobic exercise, performers must load their bodies with energy-providing foods containing carbohydrates to maximize their stores of glycogen. Known as Carbohydrate loading.

Immediately before competition they might also eat something that is easy to digest and contains simple carbohydrates, such as toast and honey to maximize glucose.

It is easier to perform on an empty bowel, so going to the toilet prior to exercise is advised. Fiber is also important for a healthy bowel function

#### **During Training and Competition**

Sports performers should ensure they drinks plenty of fluids, in the form of water or a sports drink, if they are working at a high intensity, for a long periods of time or in hot conditions. If the activity is lengthy they may also need a snack that is easy to digest such as a banana.

#### After Training or Competition.

Sports drinks are popular immediately after training, like water but contain electrolytes to replace the ones lost through sweat. Water also helps to replace fluids lost through exercise.

Within 1-2 hours of training or competing, a meal with complex carbohydrates to replenish the body's stores of glycogen, protein to aid repair of muscles and promote muscle growth. Some atheltes take protein shakes to aid muscle growth and repair.

<u>Vitamin D-</u>Crucial for healthy bones, so by taking Vitamin D tables your bones will becomes stronger and healthier. Benefit for athletes in high impact sports.

<u>Protein Supplements-</u> Usually a powder that you mix with water or milk to forma protein shake. Often drunk for strength or power training sessions. Most provide all 8 essential amino acids. Protein is essential for repair so can help a performer train harder for longer with less recovery time.

<u>The B Vitamins</u> are a group of vitamins that occur together in foods. Vitamin B1 breaks down the carbohydrates we eat into energy, so a lack of B1 may reduce performance. Supplements can be taken.

> <u>Pre-workout supplements-</u> Give you a boost of energy before exercise. Someone taking part in aerobic exercise should take a different supplement than someone who is taking part in strength or power session.

<u>Isotonic Drinks-</u>Containing glucose replenish electrolytes lost through sweat and help to rehydrate. They also provide a burst of energy to enable performers to work at a higher intensity or to recover from exercise.

#### **Carbohydrate Loading**

Carbohydrates provide energy. The complex carbohydrates – starches – are stored in the body as glycogen and converted into glucose when the body needs more energy. Glycogen is a slow-release form of energy. This is particularly useful to endurance athletes in the last stages of a performance. So, for example, in the week leading up to a race, marathon runners may eat lots of starchy foods, such as pasta. This helps them to keep going towards the end of the race. <u>Caffeine-</u> Can improve alertness and concentration. Studies have shown it can improve aerobic endurance and power.

#### High-protein diets

Protein builds tissue, including muscle. Athletes who want to build up their muscle during strength-training sometimes eat highprotein diets. This includes obvious strength-training athletes, such as weightlifters, but also includes endurance athletes who want t repair or prevent torn muscle. The value of high-protein diets is debatable. Athletes do not need much more protein than other people, protein is difficult to digest and it does not automatically turn into muscle – the athlete still needs to do strength-training, which is fuelled by carbohydrates.

## Sport Psychology- Term 2.2

Motivation- The drive for a person to be successful

Intrinsic - From within- Taking part in sport for the enjoyment, because it makes them happy.

**Extrinsic-** A form of reward is given- Tangible- Something that has a physical presence- Money/ Trophies Intangible- something that doesn't cost anything but provides recognition- Name in the local paper/ Team Captain.

The impact of motivation on participation- Benefits	The impact of Self Confidence on Participation
Intensity of effort during participation is higher- more	Increased intrinsic motivation- higher levels of self
likely to push themselves.	confidence increase your motivation to take part.
Continue to take part on a regular basis-	Positive attitude to fitness, sport and activity- Increase the
	belief that they can reach their goals.
Overcoming adversity- Injured for a long time, Not	Improved performance- They believe that they can perform
achieving a fitness goal in planned time.	the skills, make the time. More confidence means that they
Things that could affect motivation- bad school report,	will commit to a tackle in football therefore more likely for it
falling out with friends, family issues.	to be successful.
Higher Enjoyment Levels-	Improved concentration and effort- Less likely to have
	doubts about their performance.
Increased Intrinsic and extrinsic rewards.	

#### **Positive Reinforcement-**Creating a Positive Environment-Self Talk-Rewards- Children respond well to If performers feel comfortable in the Talks to themselves out loud or certificates or badges. environment they are happier to take part. in their head key affirmations to reassure themselves. **Goal Setting-**Working with similar abilities-Short (1 session- few weeks) and Long term Methods to Having a training partner to keep you goals (6 weeks/ Term/ Year) going when you lack motivation is **Increase Self** SMART targets- Specific- Something they want good Will add a social element If they Confidence are much better than you this can be to achieve Measureable- Able to be monitored Achievable- Capable of doing it demotivating. Realistic- Remove any barriers from achieving Time-Related- A time scale. goal

#### **Effects of Anxiety on Participation**

<u>Somatic Anxiety</u>- The feelings brought on by state or trait anxiety- Butterflies in stomach, Muscle tension, Increased heart rate/ sweat rate.

<u>Cognitive Anxiety-</u> Psychological effects brought on by state or trait anxiety- Feeling worried, poor concentration levels, lack of sleep due to over thinking.

#### Anxiety-

<u>State Anxiety-</u> The situation the person is in. Temporary anxiety only in this environment

<u>Trait Anxiety-</u> Some people are more anxious than othersrelated to their personality.

#### Impact of Anxiety- Controlling it

Fitness Induction- Know where to go and what to do. Use of Music- Motivate or Calm Activity based on Ability Levels-Beginner classes Pre-Match Team Talk- Builds confidence, reduces anxiety.

## AQA Religious Studies A – Theme D: Religion, Peace and Conflict

Key Words						
Forgiveness	Pardoning someone for wrongdoing	Peace-making	Working toward bringing about an end to war and a state of peace			
Greed	Going to war to gain land or natural Protest resources such as oil		A public expression of disapproval, often in a big group, can be peaceful or violent			
Holy War	A war that is fought for religious reasons, usually backed by a religious leader	Quakers	A Christians denomination who worship in silence and are well known pacifists			
Just War	A Christian theory that asks whether a war is fought justly		Restoring friendly relationships after a war or conflict			
Justice	Bringing about what is right and fair, according to the law or God's will		Deliberately harming someone as a response to them harming you			
Nuclear Weapon	A weapon using a nuclear reaction to cause massive damage	Self-Defence	Protecting yourself or others from harm			
Pacifism	acifismA belief that all forms of violence are wrong, commonly held by QuakersTerror		Using violence in order to further a political or religious message			
Peace A state of happiness and harmony, an absence of war		WMD	Weapons of mass destruction: chemical, nuclear or biological weapons			

	Ke	ey Ideas		
	Protests			Terrorism
Protests and Terrorism	The right to gather together and protest is a fundamental democratic <b>freedom</b> . UK law allows for peaceful public protest but		Examples of terrorism include suicide bombing, mass shootings or using vehicles to injure pedestrians.	
	<b>riot</b> . Christians often <b>protest unjust laws</b> or for other forms of justice but would rarely advocate the use		The aim of terrorism is to make society aware of a cause or issue and to make people frightened to g about their business. Christians don't promote political violence + belie terrorism is wrong as it targets innocent people	
Reasons for War	Greed         Self-Defence           To gain more land or to control         To defend one's of invasion or attack		, 0	Retaliation To fight against a country that has done something very wrong or to
	or gas. e.g. The UK and US invading <b>Iraq</b> in order to control oil resources invasion in <b>WWII</b>		ed by Nazi	fight against a country that has attacked you e.g. US invading <b>Afghanistan</b> in retaliation for 9/11
Nuclear War and WMD	Nuclear weapons work by a nuclear reaction and devastate huge areas and kill large numbers of people. They are a type of WMD (weapons of mass destruction) which also includes chemical and biological weapons. All these weapons are not allowed under the Christian Just War Theory and would therefore be rejected by most Christians. Nuclear weapons were used at the end of WWII in Japan to force the Japanese to surrender. Some people say their use was justified as it prevented more suffering even though 140,000 people died.			
Holy War	Although some Christians justify war with 'an eye for an eye', this cannot be used to justify the use of weapons of mass destruction as they are not a <b>proportionate</b> response.         A Holy War is a war which is fought for religious reasons, often with the backing of religious leaders. An example of this was the <b>Crusades</b> fought from the 11 <sup>th</sup> -14 <sup>th</sup> Century by Christians, backed by the Pope. Religion can still be a cause for war today such as in Northern Ireland where Protestant and Catholic Christians fought a civil war between 1968-98.			
Just War Theory	<ul> <li>Just War Theory is a Christian moral theory for working out if a war meets internationally accepted criteria for fairness. These are some of the conditions that must be met in order for a war to be just: <ul> <li>Just Cause – fought in self-defence or to protect others</li> <li>Just Intention – fought to promote good and defeat wrongdoing</li> <li>Last Resort – only going to war if all other methods have been tried first</li> <li>Proportional – excessive force should not be used and innocent civilians must not be killed</li> </ul> </li> </ul>			
Pacifism and Christian Responses to War	Pacifism is the idea that all forms o wrong. Pacifists such as Quakers re- in war and often choose to be a cor objector (someone who doesn't go reasons) or to assist in medical task driving. Christians try to follow Jesus' teach are the peacemakers"	fuse to take part <b>iscientious</b> to war for moral s like ambulance	war and provide This can be throu them into their c own country or r from Syria or Yer	show <b>mercy</b> and <b>agape</b> to victims of them with assistance. Igh charity or through welcoming hurches. It can be victims in their <b>efugees</b> such as people fleeing nen. e of 'love your neighbour' in action.

#### AQA Religious Studies A - Theme C: Existence of God and Revelation

Key Words				
Atheist	Someone who does not believe a God exists	Omnipotent	God's nature as all-powerful	
Benevolent	God's nature as all-loving and all-good	Omniscient	God's nature as all-knowing and aware of all that has happened past, present, future	
Faith	A commitment to God and religion that goes beyond proof	Personal	God's nature as merciful, compassionate and something humans can relate to	
General Revelation	God making themselves known through ordinary experiences open to all	Proof	Evidence that shows something is true or existent	
Immanent	God's nature as present in and involved in the world	Special Revelation	God making themselves known through extraordinary experiences	
Impersonal	God's nature as non-human, unknowable and mysterious	Theist	Someone who believes in a God or Gods	
Miracle	A remarkable event that cannot be explained by science alone	Transcendent	God's nature as beyond our understanding, existing outside the universe	

	Key Ideas			
Design Argument	The <b>Design Argument</b> argues that God must exist because the world around us is so intricate and well- designed that there must be an intelligent creator behind it. <b>William Paley</b> puts this forward in his <b>Watchmaker's Argument</b> that says if you found a watch in the grass you would not assume its intricate mechanism had come about by accident, you would assume someone had created it. The same applies for the world around us. It Atheists argue that nature and science are responsible for the world around us and that much of the so- called design is the result of <b>chance</b> and <b>natural selection</b> .			
First Cause Argument	The First Cause Argument was put forward by Thomas Aquinas and it argues that there has to be an uncaused cause that made everything else happen and that must be God. It argues that nothing moves without first being pushed and that God is the only possible being that can exist with no cause as God is eternal (never beginning, never ending) I Atheists argue that by this logic God must have a cause or that if God is eternal then the universe itself could be eternal as well.			
Argument from Miracles	The <b>Argument from Miracl</b> es argues that <b>miracles</b> (a remarkable event seemingly only explained by God's actions) prove that God exists. They argue that these events (like Jesus walking on water or people coming back from the dead) <b>cannot be explained by science</b> and that they must be the result of God's intervention. Atheists argue that miracles are not more than happy coincidences and that they can be explained either by <b>science</b> or people being <b>delusional</b> or <b>lying</b> .			
Special and General Revelation	Special Revelation This is a form of revelation where God reveals themselves through remarkable experiences usually only open to one or a small group of people. These could be visions (seeing Mary, God or Jesus), dreams, miracles or hearing God's call directly. In the Bible Saul experiences a vision of Jesus on the Road to Damascus and this causes him to believe in God, change his name, and preach the Gospel	General Revelation This is a form of revelation where God reveals themselves through ordinary experiences which are open to all people to experience. This could be through nature where God's creation is revealed in the intricacy of the human eye or the beauty of the Grand Canyon. It could be through scripture, God reveals much information about themselves in the Bible.		
Nature of God	Omnipotent, Omniscient, Benevolent According to the Bible and Christian teachings, God is omnipotent (all-powerful), omniscient (all- knowing) and benevolent (all-loving).	Problem of Suffering This however leads to the Problem of Suffering. If God is all-powerful and all-loving why does so much suffering exist in the world? Some people see this as an argument against God's existence.		
?	Personal vs Impersonal Different Christians have different views on God with some seeing them as personal and some as impersonal. A personal God has human characteristics and Christians can form a relationship with them through prayer. An impersonal God is mysterious and unknowable and has no human characteristics. More like an idea or a force than a human being.	Transcendent vs Immanent They also disagree about God's place in the world. A transcendent God exists beyond and outside of life on earth and is not limited by the laws of physics or the rules of time and space. An immanent God is active and involved in life on earth and can play a role in events that happen here. This could be through the Holy Spirit answering prayers for example.		

## AQA Religious Studies A – Christian Beliefs

Key Words				
Ascension	Jesus returning to be with God in heaven after the crucifixion	Omnipotent	God's nature as all-powerful	
Atonement	Making things better after sinning, asking for forgiveness from God	Original Sin	The built-in tendency to do wrong which comes from Eve's disobedience	
Benevolent	God's nature as all-loving	Resurrection	Jesus returning from the dead after he was crucified	
Crucifixion	Jesus' execution by the Romans on the cross	Salvation	Being saved from sin and given eternal life in heaven by God	
Incarnation	God becoming flesh in the form of Jesus Christ	Sin	Any thought or action which goes against God's will	
Just	God's nature as fair	Trinity	God's nature as three-parts-in-one, the Father, Son and Holy Spirit	

	Key Ideas			
Nature of God	<ul> <li>Christians believe in one God who is the creator and the sustainer of all that exists</li> <li>God is omnipotent which means they are almighty and have unlimited power</li> <li>God is benevolent which means they are all-loving and all-good</li> <li>God is just which means they are a perfect and fair judge</li> <li>The Problem of Suffering asks: if God is all these things why do they allow bad things to happen to good and innocent people?</li> </ul>			
The Trinity	<ul> <li>Christians believe God is three persons in one. This idea is called the Trinity.</li> <li>Each person of the Trinity is fully God but the three persons of the Trinity are not the same.</li> <li>The Father is the creator of all life</li> <li>The Son is Jesus Christ who is both fully human and fully God</li> <li>The Holy Spirit is the unseen power of God at work in the world, especially answering prayers "We believe in one God, Father, Son and Holy Spirit" – The Nicene Creed</li> </ul>			
Incarnation and Crucifixion	Crucifixion - Jesus travelled to Jerusalem to preach and he was sentenced to death by Pontius Pilate - Jesus was then nailed to a <b>cross</b> where he died. - In his last moments Jesus was able to forgive those who were killing him showing Christians how important <b>forgiveness</b> is - This event is remembered on Good Friday <i>"Forgive them father, they know not what they do"</i> - Luke 23:34	Incarnation - Christians believe that God was incarnated (born) in human form as Jesus Christ - Mary was impregnated by the Holy Spirit and gave birth as a virgin – for Christians this is proof of Jesus' status as the son of God - Christmas is the festival that celebrates the incarnation "The word became flesh" – John 1:14		
Resurrection and Ascension	Resurrection- After Jesus was dead and buried Christians believehe rose from the dead – this is the resurrection- Early on the Sunday three women visited his tombexpecting to find his body but it was not there- After his resurrection Jesus appeared to hisdisciples and told them to spread the word of him- This event is celebrated on Easter Sunday"He is risen" – Christians say this to each other onEaster Sunday	Ascension         - Forty days after he rose from the dead Jesus         ascended (went up) into heaven         A belief in resurrection and ascension         - Shows life after death is real         - Assures Christians they will rise again after death and live on in the afterlife         - Leads Christians to try and lead a good life		
Sin and Salvation	<ul> <li>Christians believe you are judged after you die (see Religion and Life) and how well or badly you have lived and treated others decides if you go to heaven or hell</li> <li>Sin is any action or thought that goes against God's will, Christians can look in the Bible for advice on what is a sin e.g. murder (you shall not kill) and adultery (cheating, you shall not commit adultery)</li> <li>God gave humans free will but they should use that freedom to make good choices and not sin</li> <li>Salvation is the idea that Jesus's crucifixion saves human beings from eternal damnation</li> <li>The death of Jesus made up for original sin – the idea that we were all damned by Eve's choice to disobey God – it allows us to atone for sins and reach eternal life in heaven</li> </ul>			