100% book – Booster

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



Term 6

Swindon	Academy 2022-23
Name:	
Tutor Group:	
Tutor & Room:	

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

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



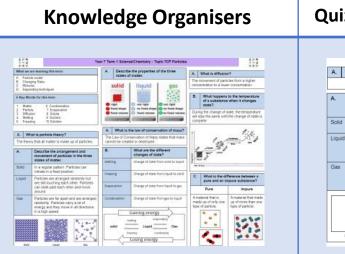








How to use your 100% book of Knowledge Organisers and Quizzable Organisers

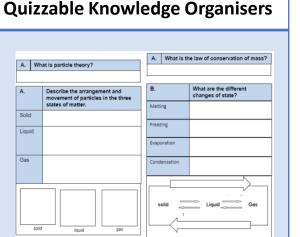


Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

They will help you learn, revise and retain what you have learnt in lessons in order to move the knowledge from your short-term memory to long-term memory.

someone else to test you, until you are confident you can recall the information from memory.

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



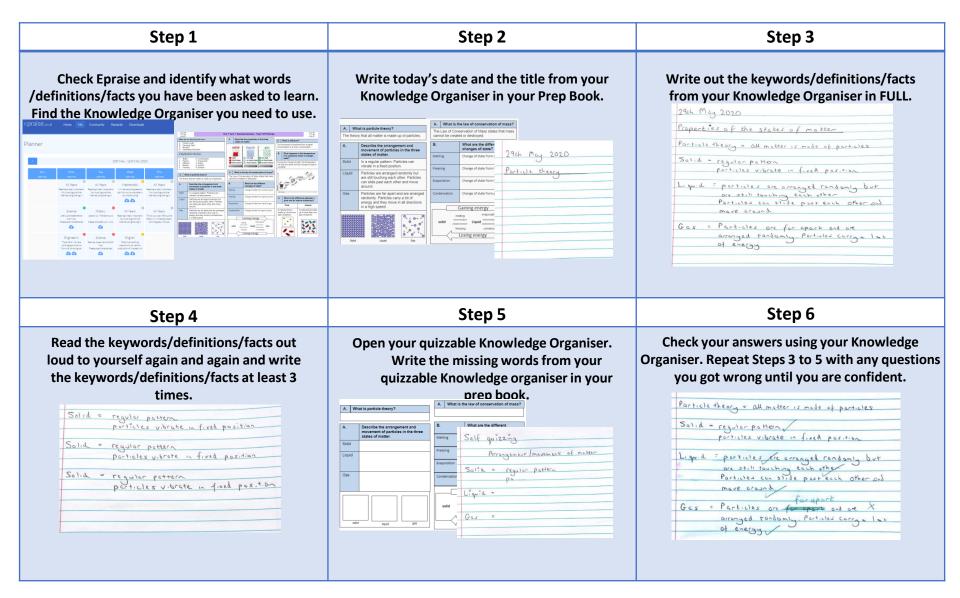
These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get

Expectations for Prep and for using your Knowledge Organisers

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

How do I complete Knowledge Organiser Prep?



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

KS4 MACBETH Foundation

1. Context			2. Key Cha	iracters	4	4. Key Vocabulary	1		
Playwright: Shakespeare (April 23 rd 1564-April 23 rd 1616)		The plot is partly based on teth was a real 11 th		e eponymous protagonist is the tragic hero of this play. He is both d ruthless. He falls from loyal and respected warrior to a paranoid,	A	Ambition	A desire to achieve something e.g. Macbeth and kingship		
Dates: written around 1606	Century ki	ng who reigned Scotland		ng, before dying in battle in Act V.	н	Hubris	Having excessive pride or self-confidence		
Published: in 'the First Folio, 1623 Era: Jacobean	version of	from 1040-1057. Shakespeare's version of the story originates from the Chronicles of Holinshed (a well		h: A strong, ambitious and manipulative woman who exerts Macbeth to pursue him ambition of becoming king by murdering	т	lyrant	A ruler who rules through fear and violence		
<u>Genre:</u> Tragedy = A play ending wit the suffering and death of the main	known his	torian). The play was most	Duncan. Una and suicide.	ble to deal with the guilt of these actions and is driven to madness	с	Corrupt	Acting dishonestly OR being in a state of decay		
character. <u>Set:</u> Scotland,	t: Scotland, after the Gunpowder Plot of 1605			/ Weird Sisters: Supernatural and manipulative beings who seem	Р	Patriarchal	A society where power is in the hands of men		
Structure: Five Act Play	Jacobean		to be able to	predict the future. They are unearthly and omniscient.	D	Duplicitous	Lying and being false. Two-faced. Deceitful		
The Divine Right of Kings says that	a King Jame	s I of England (and VI of		cbeth's close friend and ally is astute and loyal. Macbeth sees him te is virtuous, admired by audiences, and mistrustful of the	F	açade	A false front, mask or illusion. Hiding one's true feelings		
monarch is not subject to earthly authority and that they have the	1603 follo	came to the throne in wing the death of Queen	supernatural		Р	Prescient	Having knowledge of things before they happen – the witches		
right to rule directly from the will o God. It implies that only God can	the king's	. The play pays homage to Scottish lineage. The	Duncan: King	g of Scotland at the beginning of the play. He is a virtuous, strong	N	Nihilistic	The belief that everything is meaningless		
judge an unjust king and that any attempt to depose, dethrone or	found a lin	rophecy that Banquo will e of kings is a clear nod to		d leader, held up as the model of good kingship by others in the urdered by Macbeth in Act 2.	с	Courageous	Being very brave		
restrict his powers runs contrary to the will of God and may constitute	descended	hily's claim to have I from the historical		oldier who is loyal to Duncan and is suspicious of Macbeth. His	s	Supernatural	Things that are not a part of the natural world		
sacrilegious act. The action of killin a king is called regicide and is	the reality	Banquo. James was convinced about the reality of witchcraft and its great danger to him leading to witch trials. The play is probably not written simply to please James, but certainly		dered by Macbeth's soldiers, and he eventually exacts revenge by th. He was born by caesarian section and therefore was "not of	F	ate	Events being already decided and out of a person's control		
considered a terrible crime.	The play is			". Incan's son and next in line to the throne. He is described as a good	т	Freachery	Betraying someone's trust		
Chalannan Tready Marketh	_	levant ideas.	man in the p		R	Regicide	The killing of a king		
Shakespearean Tragedy. Macbeth one of Shakespeare's tragedies and		Chain of Being was a strict religious hierarchy				E Koy Terminology Symbols and Devices			
follows specific conventions. The climax must end in a tremendous	(see key vo	(see key vocabulary) of all things which was believed to have been		Themes	5. Key Terminology, Symbols and Devices				
catastrophe involving the death of the main character; the character's death is caused by their own flaw(s	decreed by important	decreed by God. This idea was important in Elizabethan and Jacobean beliefs. The chain starts	Ambition	The play is about the corrupting power of ambition. Both Lady Macbeth and Macbeth are urged to action by the prophecies of the witches, but they still commit their crimes themselves because	N	Motif	A recurring image or idea that has symbolic importance. The best example in Macbeth would be blood.		
(hamartia) yet the character has something the audience can identif	to angels,	and progresses downward demons (fallen/renegade ars, moon, kings, princes,		they want greater power. Their ambition leads them to violence and death.	s	Soliloquy	When a character is alone on stage and speaks their thoughts aloud to themselves.		
with.	nobles, co domestica plants, pre	nobles, commoners, wild animals, domesticated animals, trees, other plants, precious stones, precious metals, and other minerals.		The play contrasts the kind and wise rule of Duncan, who is described as a virtuous (good) king, with the brutal rule of Macbeth, who quickly becomes called a tyrant. The play shows how Macbeth has no divine right to rule and upsets the natural		lambic Pentameter	A line of a play or poem that has ten syllables organised into five pairs of syllables, where the second in each pair is emphasised. e.g. "When you durst do it then you were a man"		
	Conventions of a Shakespearean Tra			order by killing Duncan. The play subverts the natural order of the world. Macbeth's	F	Foreshadowing	When a hint or warning is given about a later event.		
5	a – the flaw in c hero that them.	A hero of status – the central characters are people of importance, with power and status to lose.	Order and actions are based on a supernatural belief in a prophecy. It depicts Order and an anarchic world: Macbeth inverts the order of royal succession; his wife inverts the patriarchal hierarchy; the unnatural world disrupts the natural. The disruption underpins the conflict that is not only external and violent but internal as Macbeth and his wife		D	Dramatic Irony	When a character is unaware of something that the audience is aware of, so they don't know the full significance of their words.		
tragedies feature there ar	conflict – e frequent	Supernatural elements – Many of	come to terms with what they've done. Appearanc Characters in the play are often not what they seem. Lady		s	Symbolism	When something symbolises a set of ideas e.g. "The raven himself is hoarse" – raven symbolic of death, supernatural.		
characters, and always doubt o	aracters, and always doubt or internal feature supernatu		e and Reality	Macbeth and Macbeth are duplicitous towards Duncan, the witches equivocate (not say what they really mean) and cannot be trusted, Lady Macbeth seeks to manipulate Macbeth.		Aside	When a character pauses in a conversation to speak only to the audience or another character, unheard by the rest.		

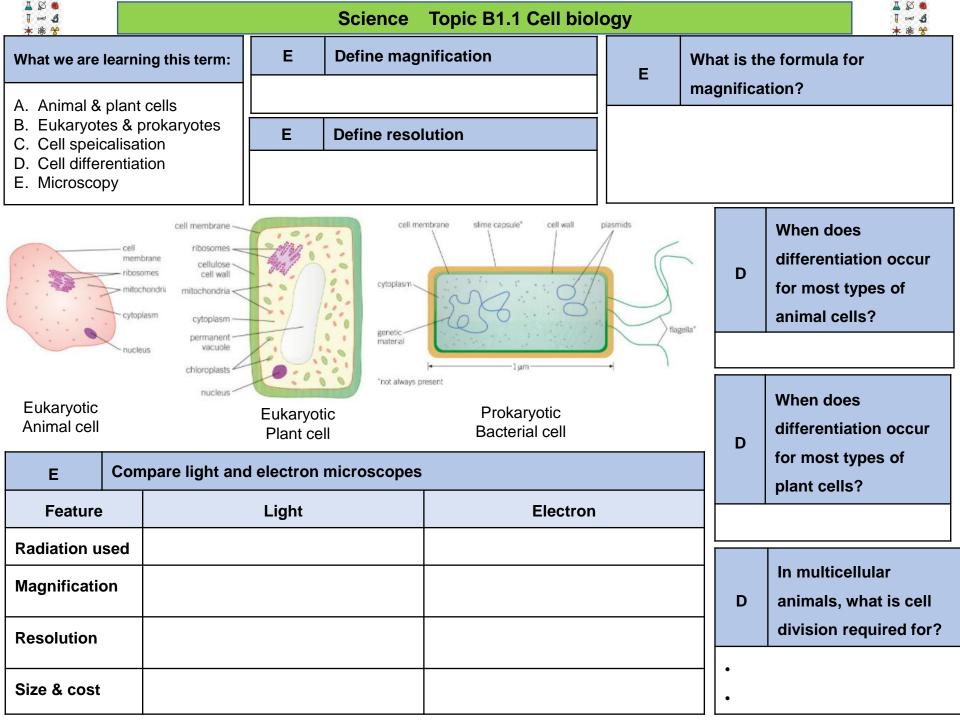
KS4 MACBETH Foundation

1. Context			2. Key Cha	iracters	4. Key Vocabular	у
Playwright: S(April 23 rd 1564-April 23 rd 1616)		The plot is partly based on eth was a real 11 th	is both ambit	e eponymous pt is the thero of this play. He ious and ruthless. He falls from loyal and respected warrior to a		A desire to achieve something e.g. Macbeth and kingship
Dates: written around Published: in 'the First Folio, 1623	from 1040	who reigned Scotland -1057. Shakespeare's		annical king, before dying in battle in Act V.		Having excessive pride or self-confidence
Era:	the Chronicles of Holinshed (a well			h: A strong, ambitious and manipulative woman who exerts Macbeth to pursue him ambition of becomingby murdering		A ruler who rules through fear and violence
<u>Genre:</u> Tr = A play endin with the suffering and death of the	known hist	torian). The play was most en in 1606 – the year	Una m and	ble to deal with theof these actions and is driven to d s		Acting dishonestly OR being in a state of decay
main character. Set:	after the G	6 Plot of d reflects the insecurities		/ Weird Sisters: Sand manipulative beings who		A society where power is in the hands of men
Structure:Act Play	of Jacobea		seem to be a	ble to the future. They are unearthly and omniscient.		Lying and being false. Two-faced. Deceitful
The Divine Right of Kings says tha	ta King James	s I of England (and VI of		beth'sand ally is astute and loyal. Macbeth sees		A false front, mask or illusion. Hiding one's true feelings
mh is not subject to earth authority and that they have the	ly Scotland) of 1603 follow	came to the throne in wing the death of Queen		He is virtuous,by audiences, and mistrustful of witches.		Having knowledge of things before they happen – the witches
to rule directly from the will of It implies that only God	the king's S	. The play pays homage to Scottish lineage. The	Duncan:	at the beginning of the play. He is a virtuous, strong and		The belief that everything is meaningless
can judge an unjust king and that any attempt to depose, dethrone	or found a lin	rophecy that Banquo will e of kings is a clear nod to		respected leader, held up as the model of good kingship by others in the play. He is murdered by Macbeth in Act 2.		Being very brave
restrict his powers runs contrary t the will of God and may constitute	descended	nily's claim to have I from the historical	Macduff: A s	r who is loyal to D and is suspicious of MHis		Things that are not a part of the natural world
	sacrilegious act. The action of killing the reality of witchcraft and its			by Macbeth's soldiers, and he eventually exacts illing Macbeth. He was born by caesarian section and therefore		Events being already decided and out of a person's control
considered a terrible crime.	The play is	probably not written please James, but certainly		voman born".		Betraying someone's trust
	looks at re	levant ideas.		ncan'sn and next in line to thee. He is described asin the play.		The killing of a king
Shakespearean Tragedy. Macbeth one of Shakespeare's tragedies an	d belief in a	Chain of Being was a strict religious hierarchy				gy, Symbols and Devices
follows specific conventions. The climax must end in a tremendous	1 · · ·	ocabulary) of all things believed to have been	3. Central	Themes	5. Key reminolog	
catastrophe involving the death of the main character; the character	important	y God. This idea was in Elizabethan and peliefs. The chain starts	Ambition	The play is about the power of ambition. Both Lady Macbeth and Macbeth are urged to action by the prophecies of the witches, but they still commit their crimes themselves because	Motif	A recurring image or idea that has symbolic importance. The best example in Macbeth would be blood.
death is caused by their own flaw((hamartia) yet the character has something the audience can ident	^(S) from God a to angels, o	and progresses downward demons (fallen/renegade ars, moon, kings, princes,		they want greater power. Their ambition leads them to violence and death.	Soliloquy	When a character is on stage and speaks their th a to themselves.
with.	nobles, con domestical plants, pre	mmoners, wild animals, ted animals, trees, other icious stones, precious d other minerals.	Kingship and The play contrasts the kind and wise rule of Duncan, who is described as a v (good) king, with the brutal rule of Macbeth, who quickly becomes called a tyrant. The play shows how Macbeth has no divine right to rule and upsets the natural		lambic Pentameter	A line of a play or poem that hassyllables organised intopairs of syllables, where the second in each pair is emphasised. e.g. "When you durst do it then you were a man"
Conventions of a	a Shakespearean	Tragedy	The play subverts the natural order of the world. Madeberry		Foreshadowing	When a hint or warning is given about a later event.
from greatness through a flaw of their own character.	tia – the flaw in gic hero that ys them.	central characters are people of importance, with power and status to lose.	Order and Disorder	succession, his wite inverts the natriarchal hierarchy, the		When a character is ue of something that the ace is aware of, so they don't know the full signce of their words.
tragedies feature there a	al conflict – are frequent	Supernatural elements – Many of	Appearanc	Appearance Characters in the play are often not what they Lady		When something symbolises a set of e.g. "The raven himself is hoarse" – raven symbolic of
	nts of self- or internal nt.	Shakespeare's tragedies feature supernatural influences.	Appearance Macbeth and Macbeth are towards Duncan, the witches equivocate (not say what they really mean) and cannot be trusted, Lady Macbeth seeks to manipulate Macbeth.		Aside	death, supernatural. When a chr pauses in a coon to speak only to the auce or another cher, unheard by the rest.

∐			S	Scien	ice To	opic E	31.1 Cell bi	iology			⊥ Ø ∰ I ⊷~ £ ≉ & &			
What we are lear	ning this term	:	А	A What are the names and functions of animal and plant sub-cells structures?										
A. Animal & pl			Structure				F	Found in						
B. Eukaryotes prokaryotes		Nucleus		Controls	s the ce	ell & contains	genetic info	rmation	Animal &	plant				
C. Cell speical			Cell membr	ane	Controls	s move	ment in & ou	t of the cell		Animal &	plant			
D. Cell differer E. Microscopy			Cell wall		Support	s the c	ell. Made of	cellulose		Plant				
5 Key Words for	this term		Cytoplasm	toplasm Jelly-like substance where chemical reactions take place Animal & pla										
1. Eukaryotic			Mitochondr	Animal & p							plant			
2. Prokaryotic			Chloroplast	Chloroplast Photosynthesis, to produce glucose Pl										
3. Differentiati 4. Magnificatio			Vacuole		Filled wi	th cell	sap, keeps c	ell turgid		Plant				
5. Resolution			Ribosome		Protein synthesis Animal &						plant			
B Compare	eukaryotic a	nd	prokaryotic cells			С	How are th							
Feature	Eukaryotic	Pr	okaryotic			Cell		Animal or plant	Specialised feature	es				
DNA	In nucleus	Sir	ngle loop DNA	& pla	smids	Sper	m cell	Animal	Tail to swim. Pointed acrosome. Lots of m		0			
Cytoplasm	Yes	Ye	S			Nerv	e cell	Animal	Long. Branched end Fatty sheath to insul		s).			
Cell	Yes	Ye	9			Muso	cle cell	Animal	Layers of protein fila contraction. Lots of r		ia.			
membrane	100					Root	hair cell	Plant	Large surface area.	Thin walls.				
Cell wall	No	Ye	S		Xylem cells			Plant	Continuous. Thicker	ed & wood	ly.			
Size	Larger	Sn	naller			Phlo	em cells	Plant	Companion cells hav mitochondria.					

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What we are learning this term:	A What struct		ne names and functions of animal and plant sub-cellula ?									
 A. Animal & plant cells B. Eukaryotes & prokaryotes 	Structure Nucleus		F		Found in							
C. Cell speicalisation D. Cell differentiation E. Microscopy	Cell membrane Cell wall											
5 Key Words for this term	Cytoplasm											
 Eukaryotic Prokaryotic Differentiation 	Mitochondria Chloroplast Vacuole	oplast										
 Magnification Resolution 	Ribosome											
B Compare eukaryotic and	d prokaryotic cells	С	C How are these cells specialised?									
Feature Eukaryotic P	rokaryotic	Ce	11	Animal or plant	Specialised features							
DNA		Sp	erm cell									
Cytoplasm		Ne	rve cell									
Cell		Muscle cell										
membrane		Ro	ot hair cell									
Cell wall		Ху	lem cells									
Size		Ph	loem cells									

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What we are learn	ing this term:	E	Define mag	nification		_	Wh	at is th						
A. Animal & plant	A. Animal & plant cells The number of times larger an image is than the original specimen.								magnification?					
B. Eukaryotes & C. Cell speicalisa		E	Define reso	lution		ano o oraș ê	fice	isotion _ size of image						
D. Cell differentiationThe minimum distance at which two distinctE. Microscopypoints of a specimen can still be seen.						$magnification = rac{size \ of \ image}{real \ size \ of \ image}$								
ribos	cell membrane ribosomes cellulose complication compl							D	When does differentiation occur for most types of animal cells?					
nucl	leus vacuole chloroplasts	£.0.;	material	. ~		At ear	ly developr	ment						
Eukaryotic Animal cell	nucleus	Eukaryot Plant ce		Prokaryotic Bacterial cell				D	When does differentiation occur for most types of					
E Cor	mpare light and	delectron	microscopes						plant cell					
Feature		Light		Electror	n			Throu	ghout the I	lifetime of the				
Radiation used	Light w	aves (visibl	e light)	Electron bea	am	าร		plant						
Magnification		er magnification Greater magnification 1500 times) (~ 2 000 000 times						D	In multica animals,	ellular what is cell				
Resolution	Resolution Larger resolution (200nm)		Smaller reso (0.2nm)		ion			required for?						
Size & cost Smaller & portable. Cheaper.				Very large & not portable. Very expensive. • Growth or it • To replace										



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Science Topic = C1.1 Atomic Structure



What we are learning this	term:	А.	What are atoms?						
A. Atoms, elements and coB. Mixtures and separation		All su	l Ibstances are made of	atoms. An atom is the smalle	est part of an element that can exi	st			
C. Development of the atoD. Structure of the atom	mic model	What are elements?			What are compounds?				
E. Electronic structure		An el	ement is a substance	made of one type of atom	Compounds contain two or more combined	e elements chemically			
6 Key Words for this term		How	are elements represe	ented?	How are compounds represer	nted?			
 Isotopes Protons 		By a	chemical symbol.		By the symbols of the atoms that	t formed them			
 Ionisation Aqueous 		Exan	nple: Sodium	Na	Example: Sodium Chloride	NaCl			
5. Residue		How	many elements are t	here?	How can compounds be sepa	rated?			
B. What is a mixture?		There	e are about 100, all sh	own on the periodic table	By chemical reactions only				
A mixture consists of two or compounds not chemically		A. What are word equations?							
What properties do mixtu	res have?	These show the names of each substance that is involved in a chemical reaction. The reactants are shown on the left. The products are shown on the right.							
Each substance in the mixtu	ire will have the same	$\frac{\text{Reactants}}{\text{Reactants}} \rightarrow \frac{\text{Products}}{\text{Products}}$							
chemical properties		Copper Oxide + Sulphuric Acid \rightarrow Copper Sulphate + Water							
How are mixtures separat	ed?	What are symbol equations?							
By physical methods:	Filtration	The c	chemical formulae (syr	mbols) of the reactants and pr	roducts show what happens in a c	hemical reaction			
Crystallisation	Simple Distillation	CuO	+ $H_2SO_4 \rightarrow CuSO_4$ +	H ₂ O					
-		D.	What are subatomi	c particles?	Where are each subatomic pa	articles found?			
Fractional Distillation	Chromatography	The p	particles that make up	atoms	nucleus containing protons and				
Are new substances made?					neutrons	× electron			
No new substances are made			e the 3 subatomic pa	rticles		neutron			
A. What is Conservation of Mass Atoms are not created or destroyed in a reaction			Protons, neutrons and electrons						

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Science Topic = C1.1 Atomic Structure

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C.	Developr	nent of the Atomic M	odel –	How was ou	ur currei	nt atomic mo	del develope	ed?						
Perso	on/Time	Demicritus (400BC) Dalton (1803)		JJ Thomsor	n (1898)		Ernest Ruth		Niels Boh	r (1913)		James Chadwick (1932)		
Ideas/model • Small indivisible matter Plum Puddi • Tiny hard spheres.				ing model			article scat				ons are re n orbits lik	Discovered the neutron		
		Thy hard ophoros.		negative	e chargeo throughou	 Proved that mass of atoms the centre – nucleus Negative electrons surrour positive nucleus 				round the sun				
Diagr	am			•	0 0 0 0									
	ribution to nt model:	Everything is made of a	atoms	Negative el	ectrons	ctrons Positive mass in the centre surrounded by negative electrons					Electrons orbit in shells/orbitals at specific distances			Neutrons found in nucleus along with protons
D. How big are atoms? D. How do				How do we	know how	many sul	patomic	particles	s are in	E.	Which er	ergy level do		
0.1n	m (1 x 10 ⁻¹⁰	^o m)				each eleme						electrons fill first?		
How I	big is the rad	ius of an atom?				12-	Mass What is Mass number?				Electrons in an lowest energy lo			
1/10	000 the size	e of the atom – 1x10) ⁻¹⁴ m				Numbe		Number of protons and neutrons				ctrons does each	
D.	What is r	elative mass and c	hardes	s of the		✓ 6 ←	Atomic	What is	at is atomic number?			orbita		
υ.		ic particles?	inarget	s of the		U I	Number	Numbe	r of prot	ons – sam	ne for	First	U	p to 2
Suba partie	atomic	Relative Mass	Relat Char							element		Secor	nd U	p to 8
Proto		1	onar	+1	D.	How can we	e know what D.			What is atomic r		Third U		p to 8
Neutr	ron	1		0						an elem		Electro	onic structu	re of Sodium:
Elect	ron	1/2000		-1		ach element has a unique numbo otons				verage va		/	**	\backslash
D.	D. What is the overall charge of an atom? What is an isoto			is an isotope	e? takes account of abundance of t isotopes of an				dance of the			2,8,1		
	is have no cł f protons = n	narge o of electrons			An isotope is a substance same number of protons be number of neutrons				element					

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What we are learning this term:	A. What are atoms?											
 A. Atoms, elements and compounds B. Mixtures and separation C. Development of the atomic model D. Structure of the atom E. Electronic structure 	What are elements?	What are compounds?										
6 Key Words for this term	How are elements represented?	How are compounds represented?										
 Isotopes Protons Ionisation Aqueous Residue 	Example: Sodium How many elements are there?	Example: Sodium Chloride How can compounds be separated?										
B. What is a mixture?												
	A. What are word equations?											
What properties do mixtures have?												
	Copper Oxide + Sulphuric Acid → Copper Sulphate + Water											
How are mixtures separated?	What are symbol equations?											
	D. What are subatomic particles?	Where are each subatomic particles found?										
Are new substances made?												
	Name the 3 subatomic particles											
A. What is Conservation of Mass												

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Science Topic = C1.1 Atomic Structure

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	on/Time	Demicritus (400BC) Dalton (1803)		JJ Thomson (1898)			erford (190	9)		Niels Boł	nr (1913))	James Chao (1932)	łwick
Ideas	/model													
Diagram														
	ibution to nt model:					· · · · · · · · · · · · · · · · · · ·								
D.	How big ar	e atoms?		D.	How do we each eleme	know how ant?	many sub	atomic	c particles	are in	E.		energy level ons fill first?	do
How b	oig is the rad	lius of an atom?			12-	Mass Number	What is	Mass	number?					
D.	What is r	elative mass and c	charges of the		/ ₆ –	Atomic	What is atomic number						electrons does ?	s each
<i>D</i> .		ic particles?	indiges of the		0	Number					Firs	t		
Suba partio	tomic	Relative Mass	Relative Charge								Sec	ond		
Proto			Gliarge	D.	How can we			D.	What is r atomic m		Thir	d		
Neutr					element we	nave?			atomic in an eleme		Elec	tronic stru	cture of Sodium:	
Electi														
D.	What is the	e overall charge of an a	tom?	What	is an isotope	?								

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Science Topic P1.1 Energy



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What we are learning	А.	What are the c	hanges	in ener	rgy stores for the	follow	ving objects?			
C. Gravitational potential energy into the air					arrow being thrown directly up o the airFrom kinetic to gravitational potential. As it comes to down, the opposite is true.			•		
D. Kinetic energy and E. Wasted energy and F. Energy efficiency			Energy is transferred from chemical to kinetic to vibrational in sound and heat.							
6. Key Words for this	term		A car a	accelerating			Energy is transferred from the chemical energy from the petrol/diesel to kinetic energy.			
1. Dissipate 2. Generation 3. Efficiency			A bike	slowing down			Energy is transfe	rred fro	om kinetic to heat.	
S. Enciency			Water	boiling in an ele	ctric ket	ttle	Energy is transfer	rred fro	om electrical to heat.	
A. What is a subject or groups	-	A. Energy ca		at is the law of co created or dest				Α.	Theoretically, if a roller-coaster has 20000 J of GPE at the top of the slope, how much KE will it have	
A. What are th	ne 8 energy stores?	?	Α.	What is the energy store of a person on a				gained when it reaches the bottom?		
1. Chemical	5. Gravitational p	otential (GF		bungee jump?					stance/friction	
2. Kinetic (KE)	6. Thermal (interr	nal)	Whilst the rope is slack, energy is GPE to KE. As the rope tightens, the			ghtens, the jumpers KE		В.	B. What is work?	
3. Magnetic	7. Elastic potentia	al		store decrease but the ropes elastic potential energy store increases. They stop when all the KE				When energy is transferred, work is done.		
4. Nuclear	8. Electrostatic					Astic potential energy. What is the link between work and energy			t is the link between work and energy?	
A. What is the en	ergy transfer from th	e sun, to sol	ar panel t	o light bulb?		B. If a person uses 300 J of Work done = energy transferred			k done = energy transferred	
Sun \rightarrow solar panel \rightarrow	lightbulb.						pushing a bike, the work done?	If the units for energy are –joules, what are the units for work done?		
	energy trar	nsferred	ener	gy transferred to	300 J			-joul	es (J)	
store of nuclear	→ to light b	oulb _{by} _		ndings by heating	В.	What	is the equation for	work d	one?	
energy in <u>sun</u> electric current and light waves					Work done = force x distance moved Force is measured in newtons (N) Distance is measures in meters (m)					
	n pushes a trolley w				VVORK d	ione is m	easured in joules (J)			
down a 5	0 m isle, how much v	vork has bee	n done b	y the person?	B. A crane lifts 400 N crate full of coca cola 15 m. How much work was done by the crane?					
Work done = 800 x 50	= 4000 J or 4 kJ				Work d	one = 40	00 x 15 = 6000 J or 6	i kJ		

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Science Topic P1.1 Energy

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						change	es in ene	ergy stores for the	follow	ving objects?
 A. Energy stores and transfer between energy stores B. Work done C. Gravitational potential energy D. Kinetic energy and elastic energy stores E. Wasted energy and Dissipation An arrow being thruinto the air A toy car (with batter batter) 					e air					
	efficiency			wall he			5			
6. Key Word	ds for this t	erm		A car a	accelerating					
 Dissipat Generat 	tion			A bike	slowing down					
3. Efficienc	су			Water	boiling in an ele	ectric I	cettle			
A. WI	/hat is a sy	vstem?	Α.	Wha	it is the law of c	onser	vation of	energy?	Α.	Theoretically, if a roller-coaster has
,			, u							20000 J of GPE at the top of the slope, how much KE will it have
										gained when it reaches the bottom?
	hat are th	e 8 energy stores?		A.	What is the end bungee jump		tore of a	person on a		
1.		5.								
2.		6.							В.	What is work?
3.		7.								
4.		8.							Wha	t is the link between work and energy?
A. What	at is the ene	ergy transfer from the	e sun, to sol	ar panel t	o light bulb?	В.	If a per	son uses 300 J of		
Sun → sola					-		energy	pushing a bike, the work done?		e units for energy are –joules, what are units for work done?
	-	energy trar	sferred	ener	gy transferred to	300	J		-joul	es (J)
	of nuclear	to		→	by heating	В.	What	is the equation for	work d	one?
energy in	1	electric c	urrent	an	id light waves					
						is measured in _ is measures in _				
B	If a parso	nushes a tralley wi	th force of 9	N N and	moves it			is measured in _		
B. If a person pushes a trolley with force of 800 N and moves it down a 50 m isle, how much work has been done by the person?						B. A crane lifts 400 N crate full of coca cola 15 m. How much work was done by the crane?				a cola 15 m. How much work was

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Science Topic P1.1 Energy



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B. Who is doing the most work in these images and why?				Why, when work is do the energy transferred		't all	С	What is the equation t potential energy (GPE	o calculate gravitational ;)?	
		Some is lost in heat and sound.				GPE = mass × gravitational field strength × height				
the right is doing the most work. This is because work done depends on force and the on the right is lifting a larger force.			Compare a glass block being pushed 1 m across a polished floor with a wooden block being pushed 1 m across a rubber floor. Which needs more force and why? Which is more work done?			Mass, m is measured in kilograms (kg) Gravitational field strength, g, is measured in newtons per kilogram (N/kg), usually taken as 10 N/kg on Earth. Height, h, is measured in metres (m). GPE is measured in joules (J).				
The fireman on the left is doing the most work. This is because		use			only	ab	bird with a mass of 3 kg out the ground, how mu ve?	flies at a height if 150 m ich GPE store does it		
work done depends on distance and the foreman on the left			trans need	, most of the energy will t ferred into heat, so a larg ed. More work is done on	e force the wo	oden	$GPE = 3 \text{ kg} \times 10 \text{ N/kg} \times 150 \text{ m} = 4500 \text{ J or}$			
	has travelled a lon distance.	-	block as more energy is transferre rather than KE.		erred t	o heat	D.	What happens to energ	y that is not usefully used?	
D. What is the equation for	kinetic energy?		What is the equation for elastic potential energy?			It spreads out to the surrounding in many forms, this is called dissipated energy.				
KE = ½ × mass × velocity ² = ½mv ² Mass is measured in kilograms (I Velocity is measured in metres p		EPE = ² EPE is Spring	EPE = ½ spring constant x extension ² EPE is measured in joules (J) Spring contact is measured in Newtons per metre (N/m) Extension is measured in Meters (m)			Are the following useful or wasteful; energy transfers: Heater: heat, car: sound, heater: light, television: light, car: heat, car: kinetic, television: sound, television: heat?				
KE is measured in joules (J).							<u>eful</u> ater: heat	<u>Wasteful</u> car: sound		
If a car with a mass of 1750 kg velocity of 30 m/s, what is the			spring has a spring constant of 25 N/m the extension is 0.2 m, what is the EPE?			car	ater: light : kinetic evision: sound	television: light car: heat television: heat		
KE = ½ x 1750 kg x 30 ² = 787,50	0 J or 787.5 kJ	EPE =	1∕₂ 25	N/m x 0.2 ² = 0.5 J						
F. What is energy efficien	icy?				C.	How	is po	wer calculated?		
All devices waste energy, so no o the less energy is wasted.	levice is perfectly effi	icient. The	ne mor	e efficient a device is,	Bou	or (Woth	- M/	- operativ transformed (lou	lles, J)/time taken (seconds, s)	
Why is energy efficiency so important?							.5, ••)	- energy transferred (Jou		
It saves money and the planet as it uses less energy, so uses less fossil fuels.								000 J of work walking up the power?	he stairs and I took 10	
How do you calculate energy efficiency?						seconds, what is the power?				
energy efficiency	/ =	output er input ene			P =	2000 J /	10 s =	= 200 W		

⊥ 20 ** ↓ 5M3* 42 ★ 88 ★			Sc	ience Topic P1.1 Energ	ју		⊥ 20 * U ~~ 4 * * * *
В.	Who is doing the most work in these images and why?			Why, when work is done, isn't all the energy transferred?	С	What is the equation potential energy (GPE	to calculate gravitational =)?
		Compare a glass block being pushed 1 m across a polished floor with a wooden block being pushed 1 m across a rubber floor. Which needs more force and why? Which is more work done?		is measured in is measured in, usually tak as 10 N/kg on Earth. is measured in is measured in			
					ab	out the ground, how mu	flies at a height if 150 m uch GPE store does it y that is not usefully used?
D. V	What is the equation for kinetic energy?	D.	What energ	is the equation for elastic potential jy?	He		vasteful; energy transfers: er: light, television: light, car: und, television: heat?
	with a mass of 1750 kg is travelling at a y of 30 m/s, what is the KE of the car?			has a spring constant of 25 N/m ension is 0.2 m, what is the EPE?	<u>Us</u> e	eful	<u>Wasteful</u>

F.	What is energy efficiency?	C.	How is power calculated?	
Why is	s energy efficiency so important?			
		If a student did 2000 J of work walking up the stairs and I took 10 seconds, what is the power?		
How d	o you calculate energy efficiency?			



Geography Knowledge Organiser: Year 10 OCR – Ecosystems of the Planet



Background: An ecosystem is a community of things that are linked together to make up a type of environment. (*A*, *B*, *E*) An ecosystem contains biotic (living) and abiotic (non-living) parts. (*B*) The climate of an ecosystem is very important as it influences what you will find there. (*C*, *D*) The main world biomes can be found in specific parts of the world, they have very different climatic conditions & features. (*C*, *D*)

- Ecosystems have cycles that are interdependent on one another (E)
 The location of the major tropical rainforests
- The location of the major tropical rainforests are found between 0-25°N/S of the equator (F)
 The location of the major worm water corel
- The location of the major warm water coral reefs are found between 0-30°N/S of the equator (G)

Α.	Classif	Classification of ecosystem (4)									
Ecosystem		A community of things linked together in an environment.									
Biome		An ecosystem on a large scale that covers parts of continents and whole countries.									
Habitat		A place where plants and animals live. Example: a pond, or hedgerow.									
Biodiversity		The amount of variety of life there is in a place.									
В.	Featu	res of an ecosystem (3)									
Bioti	с	The living parts of an ecosystem. Examples: plants, animals, humans.									
Abiotic		The non-living parts of an									

ecosystem. Examples: soil, climate,

A diagram that shows what is eating

what in an ecosystem.

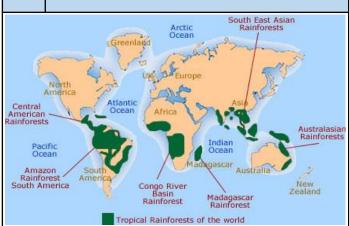
river.

Food chain

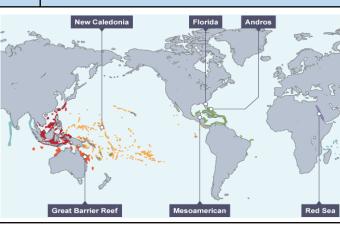
 r								
C.		М	ajor global biomes <i>(5)</i>	E.				
Tundra	(2)	an	 Found between 60- and 70-degrees N and S of the equator A cold ecosystem, little rainfall. 					
Hot des <i>(2)</i>	ert	the	 Found along the Tropic of Cancer and the Tropic of Capricorn. Hot environments with little rain. 					
Tropical rainfore (2)		2.	Found in places along the Equator. Hot and humid environments with ge amounts of rainfall.	Int				
Temper forest (2		pla 2.	The main biome of the UK and other aces along the same lines of latitude. Warm summers, mild winters. No tremes of temperature, rainfall.	F.				
Coral R (2)	eefs	1. 2.	Located in the tropics between 30 degrees north and 30 degrees south. Ocean temperature must be over 20 degrees.					
D.	Clir	nate	nate and plants (5)					
Tropical rainforest			 Warm and humid all year round. Dense vegetation Plants such as Lianas and drip tip leaves are adapted to deal with conditions. Animals such as Tapir and Leopards. 	A Ra Sout				
Coral R	eef		 Warm and shallow oceans so that corals can photosynthesise Most biodiverse ecosystems on the planet. 					
			3. Animals such as reef sharks and turtles.	n Andes				
Tundra			 Extremely cold and relatively dry conditions. Low levels of biodiversity. E.g., 	- 2 5				
			Low shrubs.					
 Hot des	ert		 Hot and dry all year round. Vegetation includes cacti and succulents. Animals include desert fox and reptiles. 	K				
Temper forest	ature		 Dense deciduous trees. Seasonal vegetation Animals include deer. 					

E.	Interdepend	Interdependence in ecosystems (3)							
Nutrient Cycle		The cycling of nutrients throughout a system to keep everything alive.							
Water	Cycle	The cycling of water throughout a system to keep everything alive.							
Interde	ependence	When different parts of an ecosystem rely on each other to maintain balance							

Location of major tropical rainforests



Location of major coral reefs



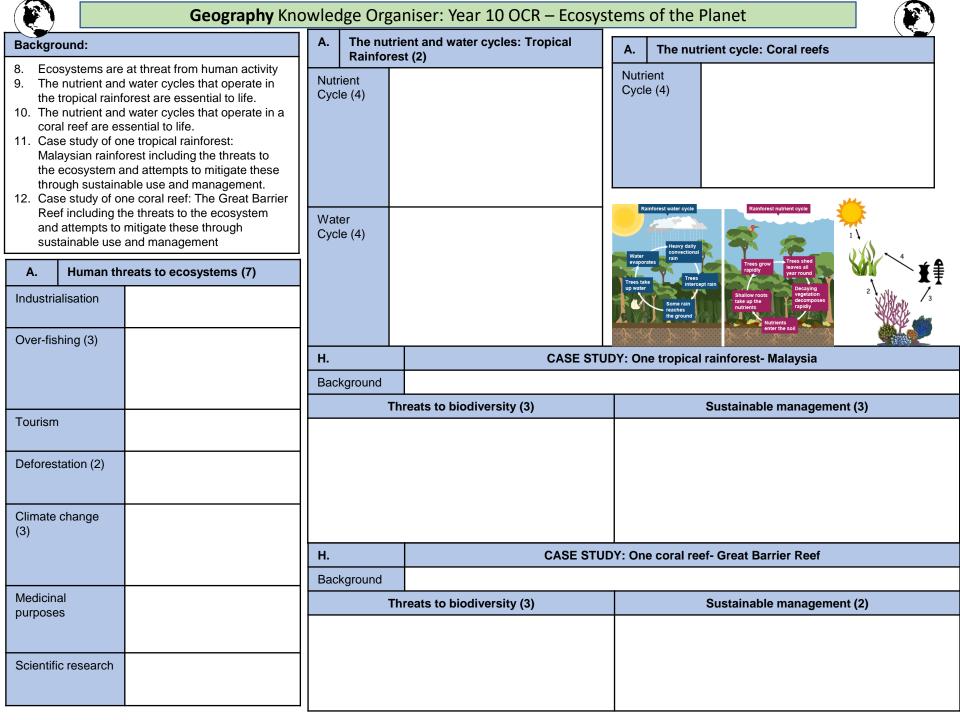
Geography Knowledge Organiser: Year 10 OCR – Ecosystems of the Planet											
Background:		A.	The nutri Rainfores	ent and water cycles: Tropical	nutrient cycle: Coral reefs						
 Ecosystems are at threat from human activity The nutrient and water cycles that operate in the tropical rainforest are essential to life. The nutrient and water cycles that operate in a coral reef are essential to life. Case study of one tropical rainforest: Malaysian rainforest including the threats to the ecosystem and attempts to mitigate these through sustainable use and management. Case study of one coral reef: The Great Barrier Reef including the threats to the ecosystem and attempts to mitigate these through sustainable use and management 		:		 Plant matter receives nutrients from the soil and through photosynthesis. Plant matter falls to the forest floor. Warm temperatures lead to rapid decomposition (rotting). Nutrients are returned to the soil. Convectional rainfall is intercepted by the canopy. Most rainfall is evaporated off 	Rainforest water cy	 Sunlight is used by Algae in photosynthesis to produce energy. Algae live in coral and provide coral with nutrients they need to grow. Coral gives off waste nitrogen during respiration. Algae eats the waste material from the coral. 					
A. Human th	reats to ecosystems (7)		ŕ	the canopy leading to more rain.	Water evaporates Trees take	teoral Trees grow Trees shed leaves all year round					
Industrialisation	The growth of factories and mining in an area.			 Some rainfall reaches the ground. Plants take in water through roots. 	up water Some rain reaches the grou	Intercept rain ind ind ind ind ind ind ind ind ind i					
Over-fishing (3)	1.Using large scale trawlers to catch hundreds of fish at	H. CASE ST			DY: One tropie	cal rainforest- Malaysia					
	one time. Means many fish cannot breed.	Background 60% of Malaysia is covered by rain			prest. It is an Emerging Developing Economy.						
	2.Usually happens for profit. 3.Is not well monitored.	Threats to biodiversity (3)			Sustainable management (3)						
Tourism	Travel for leisure.	I		e farming: Farming on a small scale. and burn practices which can get out	 Selective management system. Does not clear large areas of forest. Gives small trees room to grow. BUT 30% of trees are still removed and it is not well 						
Deforestation (2)	 Cutting down large amounts of trees for profit. Is not well monitored. 	3. E	a monoculture so less biodiversity 2. 3. Bakum dam – built in 2011. Powers factories in			hotels and transport can cause damage.					
Climate change (3)	1.Increase in greenhouse gases in the atmosphere.				BUT membership can be bought.						
	2.Lead to increase in temperatures.	H. Back	ground	CASE STUD The Great Barrier Reef is the world's	IDY: One coral reef- Great Barrier Reef						
	3.Leads to increased drought and flooding.		-	reats to biodiversity (3)	Sustainable management (2)						
Medicinal purposes	Scientists believe that some chemicals released by corals could be used to treat viruses.	2.	Commercia year to the machinery. Tourism. O	al fishing. Contributes \$104 million/ economy. Destroys reefs with ver 3 million visitors/ year.	(certain banned 2. Coral fa	restrictions. Large companies are given a quota a amount of fish they can catch). Dynamite fishing d. BUT can be bought. arming. Small corals are collected and grow 50 x					
Scientific research	Coral reefs help us understand climate change.	 Medicinal purposes. Chemicals in coral reefs are though to treat cancers. 			faster than in the wild on the farms. BUT sometimes coral is sold.						



Geography Knowledge Organiser: Year 10 OCR – Ecosystems of the Planet



	İ							
Background:	C.	Major global biomes <i>(5)</i>	E. Interdependence in ecosystems (3)					
1. An ecosystem is a community of things that are linked together to make up a type of	Tundra (2)		Nutrie	Nutrient Cycle				
 environment. (A, B, E) 2. An ecosystem contains biotic (living) and abiotic (non-living) parts. (B) 	Hot desert (2)			Water Cycle				
3. The climate of an ecosystem is very important as it influences what you will find there. (C, D)	Tropical							
 The main world biomes can be found in specific parts of the world, they have very different climatic conditions & features. (C, D) 	rainforest (2)		Interd	lependence				
 Ecosystems have cycles that are interdependent on one another (E) 	Temperate forest (2)		F.	Location of	major tropical rainforests			
6. The location of the major tropical rainforests are found between 0-25°N/S of the equator (F)				e	Arctic Ocean			
 The location of the major warm water coral reefs are found between 0-30°N/S of the equator (G) 	Coral Reefs (2)		Ę	North	UK BEUrope			
	D. Clir	nate and plants (5)	il –	Atlar				
A. Classification of ecosystem (4)	Tropical							
Ecosystem	rainforest (4)		Pacific Ocean South America					
Biome	Coral Reef (3))		opical Rainforests of the world				
Habitat			G.	Location of	major coral reefs			
Biodiversity	Tundra (2) Hot desert (3)							
B. Features of an ecosystem (3)								
Biotic			1					
Abiotic								
Food chain	Temperature forest (3)			and a				
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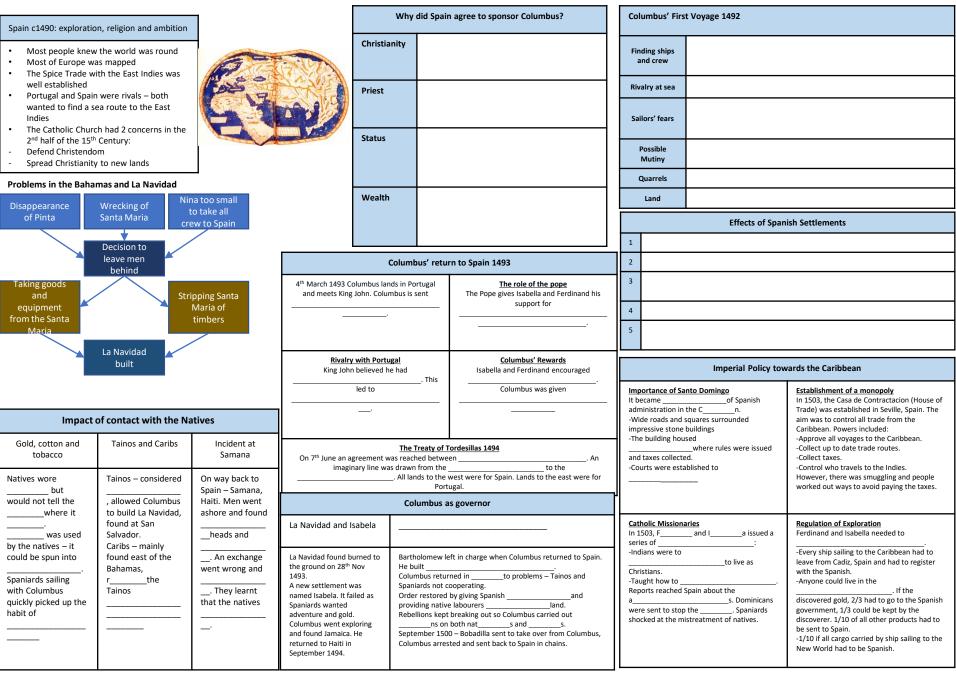


Spain c1490: exploration	n. religion and ambition	1	Why did Spain agree to sponsor Columbus?					Columbus' Firs	t Voyage 1492		
Most people knew Most of Europe wa	people knew the world was round of Europe was mapped pice Trade with the East Indies was		(CARTA)			a was keen to continue spreading anity to the East Indies.		Finding ships and crew	Martin and Vicente Pinzon helped Columbus get ships and crew. 2 caravels – the Nina and the Pinta I carrack – the Santa Maria (flagship)		
well established • Portugal and Spain	were rivals - both	Care a	ACK EN	Priest	Juan P	erez, a priest and friend to Isabella,		Rivalry at sea	Columbus had to change rou	tes to avoid Portuguese caravels.	
wanted to find a se Indies	h had 2 concerns in the	63			helped Columbus while he made his case.			Sailors' fears	Columbus kept 2 different lo -1 was accurate and he kept -The other log recorded sho		
 2nd half of the 15th Defend Christendo Spread Christianity 	m			Status	before	Finding the sea route to the East Indies before Portugal would give Spain international status.		Possible Mutiny	As the sailors had not spotte They allowed Columbus 2 m	d land for so long, they came close to mutiny. ore weeks.	
Problems in the Bahar	nas and La Navidad	_						Quarrels	Columbus and Martin Pinzor	n disagreed on the route.	
Disappearance	M/recking of	a too small		Wealth		essful voyage would bring riches to anish treasure and wealth to Spanish		Land	On the 10 th October, after 6	weeks at sea, the crew spotted land.	
	Santa Maria	o take all w to Spain			merch				Effects of Span	ish Settlements	
	Decision to							1	Gold mines set up in Haiti –	most of the work done by natives.	
*	leave men behind			Colur	nbus' retu	rn to Spain 1493		2 Tain	os and Carib societies destroye	d in order to provide work for the Spanish.	
Taking goods and		oping Santa		John. Columbus	is sent	The role of the pope The Pope gives Isabella and Ferdinand his		3 Columbus had captured natives to sell as slaves – Isabella not pleased and sent slaves b to Haiti.			
equipment from the Santa		Maria of timbers		letters and is che is way to Barcelor		support for the new 'Spanish Indies'. He is excited by Columbus' discoveries and wanted Christianity to spread to these lands.		4 Encomienda system set up. Nicolas de Ovando set this up in 1502.			
Maria	La Navidad					Christianity to spread to these lands.		5 Diseases like smallpox killed many natives. 1492 around 500,000 natives. By 1507 only 60,000.			
	built Riva King John belie			Rivalry with Portugal Columbus' Rewards King John believed he had claim to the lands Isabella and Ferdinand encouraged Columbus Columbus had discovered. This led to talks to carry out another voyage. Columbus was				Imperial Policy towards the Caribbean			
		what lands as Sp		Spain to determine who had rights over it lands as Spain were getting ready to		ly to issued a pension for life. He was also given		Importance of Sa It became the cer		Establishment of a monopoly In 1503, the Casa de Contractacion (House of	
Impact o	of contact with the Na	tives	send Colum	bus back to gove	rn.	powers to govern lands in the New World.		administration in -Wide roads and impressive stone	squares surrounded	Trade) was established in Seville, Spain. The aim was to control all trade from the Caribbean. Powers included:	
Gold, cotton and tobacco	Tainos and Caribs	Incident at Samana	The Treaty of Tordesillas 1494 On 7 th June an agreement was reached between Spain and Portugal. An imaginary line was drawn from the North to the South pole. All lands to the west were for Spain. Lands to the east were for				-The building housed administration offices were rules were issued and taxes collected. -Courts were established to control the laws -Courts were established to control the laws				
Natives wore gold but would not tell	Tainos – considered friendly and	On way back to Spain – Samana,	Portugal.						However, there was smuggling and people worked out ways to avoid paying the taxes.		
the Spaniards where it came from.	peaceful, allowed Columbus to build	Haiti. Men went ashore and found	Columbus as governor								
Kapock was used by the natives – it could be spin into thread	La Navidad, found at San Salvador. Caribs – mainly	dried human heads and large canoes. An	La Navidad and I	sabela Sa	nto Dominį	go			aries d and Isabella issued a out educating the Indians:	Regulation of Exploration Ferdinand and Isabella needed to establish Spanish control over exploration and	
and woven into cloth. Spaniards sailing with Columbus quickly picked up the habit of smoking tobacco.	found east of the Bahamas, raided the Tainos taking women, rumours that they were cannibals.	ast of the as, raided exchange went wrong and La Navidad found burned to the ground on 28 th Nov 1493. Bartholomew left in charge when Columbus returned to Spa He built Santo Domingo. ots taking rumours erupted in violence. They ey were lls. A new settlement was natives could be hostile. A new settlement was columbus returned in 1498 to problems – Tainos and Spania not cooperating. Order restored by giving Spanish rebels land and providing adventure and gold. Order restored by giving Spanish rebels land. Rebellions kept breaking out so Columbus carried out executions on both natives and Spaniards.		bund east of the bahamas, raided he Tainos taking vomen, rumours hat they were annibals. exchange went wrong and erupted in violence. They learnt that the natives could be hostile. La Navidad found burned to the ground on 28 th Nov Bartholomew left in charge when Columbus He built Santo Domingo. A new settlement was named Isabela. It failed as spaniards wanted adventure and gold. Columbus returned in 1498 to problems – T. not cooperating. Columbus returned in 2498 to problems – T. not cooperating. Order restored by giving Spanish rebels land native labourers to work the land. Columbus went exploring and found Jamaica. He returned to Haiti in Rebellions kept breaking out so Columbus and Spaniards.		ground on 28 th Nov He built Santo Domingo. V3. Columbus returned in 1498 to problems – Tainos and Spaniards not cooperating. ew settlement was not cooperating. med Isabela. It failed as uniards wanted Order restored by giving Spanish rebels land and providing native labourers to work the land. Rebellions kept breaking out so Columbus carried out executions on both natives and Spaniards. September 1500 – Bobadilla sent to take over from Columbus, urned to Haiti in			-Taught about Ch live as Christians. -Taught how to re Reports reached S Indians. Dominica	ead, write and dress. Spain about the abuses of ans were sent to stop the aniards shocked at the	discovery in the New World. -Every ship sailing to the Caribbean had to leave from Cadiz, Spain and had to register with the Spanish. -Anyone could live in the Indies freely. If the discovered gold, 2/3 had to go to the Spanish government, 1/3 could be kept by the discoverer. 1/10 of all other products had to be sent to Spain. -1/10 if all cargo carried by ship sailing to the New World had to be Spanish.



Year 10 History : 1. Spain reaches the New World, c1490-1512





Year 10 Religious Studies: Religion and life Knowledge organiser



What we are lear	ning this term:	Α.	A. What are the messages from the creation st			В.	What is	meant by natural resources ?	
A. Genesis storyB. Relationship between science and religionC. Different Christians attitudes to the environment		1 Sacred earth 2 Dominion			'God saw that it was good' 'Rule over it'		part of humar	lls/ materials and fuels that are the world and are used by is. For example non renewable	
animals	stian attitudes to the use of	3 Ste	wardship		'Till the earth and keep it'	energy supplies like coal and oil.			
	stian attitudes to Euthanasia	4 Mar	n is pinnacle		'Made in the image of God'	C. What 2 types of Christian interpretation are there?			
6 Key Words for	this term 4 Euthanasia	5 Goo	l is Creator		'God said let there be light and there was light'	1 Liberal – the story has messages and contains			
2 Dominion 3 Stewardship	5 Abortion 6 natural resources	6 Goo	l provides bounty	/=Love	"I give you all the plants and animals to use'	truths that can be understood from the story 2 Literal- The Bible is word for word actually a fact and it happened exactly in 6 days			
D. Can Chris want?	tians use animals anyway they	E	. Should Cl	nristians	support Euthanasia?	F. Should Christians support abortion ?			
Yes	 1 'man made in the image of God' 2 'every animal that creepth upon the ground shall fear you' 3 'the animals shall be food for you' 4 'love thy neighbour' 5 Jesus was a healer 	Ye	S	2 Cloth	thy neighbour e yourself in compassion siple of double effect	Yes		 Love thy neighbour Clothe yourself in compassion God breathed life into the unborn child Principle of double effect Protect the weak and needy 	
No	 1 'Does not God know every sparrow?' 2 Protect the weak and needy 4 'you shall not muzzle the ox whilst he treadeth the corn' 5 'the righteous has regard for the life of his animal' 6 'Love thy neighbour' 	No		2 Thou 3 Prote 4 The b spirit 5 Jesus 6 soul r	e in the image of god shall not kill ct the weak and needy body is the temple of the holy a suffered on the cross making Lord giveth and taketh away	No		 Made in the image of god Thou shall not kill The sons shall not bear the guilt of the fathers The body is the temple of the holy spirit Go forth and multiply The Lord Giveth and the Lord taketh away 	



Year 10 Religious Education



What we are learning this term:	C. Key qu	Key question from Assessment objectives?				
A. Topic 1 B. Topic 2 C. Topic 3 D. XXXX E. XXXX F. XXXX G. XXXX 6 Key Words for this term	Key question fro 1 2 3 4	om Assessment objectives?	Key question from Assessment objectives? 1 2 3 4			
1 4 2 5 3 6	G. Key que Advantages (3)	estion from Assessment objectives?	E.	Keywords		
A. Key question from Assessment objectives? Key word Key definition 1 2 3 4 5 6 7		3 4				
A. Key question from Assessment objectives?	Disadvantages (3)	1 2 3 4				

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GCSE Unit 3 SPANISH Knowledge organiser. Topic Free Time Activities

				1						
What we are learning the	nis term:	3.1F ¿Qué hao	ces en tu tiempo libre?	Key Verbs						
 A. Talking about free t B. Talking about your C. Talking about eating D. Talking about speci 	plans for the weekend g out	a veces bastante cada cenar charlar	sometimes quite each, every to have an evening meal	Salir To go out Salgo I go out	<u>Ir</u> <u>To go</u> Voy I go	<u>Jugar</u> <u>To play</u> Juego I play		<u>Hacer –</u> to do/make Hago I do	Tocar To play (ins) Toco I play	
E. Extending what you	Extending what you can say about sport Talking about sport in the world		to chat choir to rest	Sales You go out	Vas You go	Juegas You play		Haces You do	Tocas You play	
6 Key Words for this te	erm T	los dibujos animad el documental	dos cartoons documentary	Sale He/she goes out	Va s/he goes	Juega He/she plays		Hace s/he does	Toca He/she plays	
 disfrutar jugar los deportes 	 campeones formentar a selección 	el fin de semana genial las noticias	weekend great news	Salimos We go out	Vamos They go	Jugamos We play		Hacemos We do	Tocamos We play	
3.1G ¿Qué te	gusta hacer?	nunca ocupado/a policíaco/a	never occupied, busy police, detective, crime	Salen They go out	Van They go	Juegan They play		Hacen They do	Tocan They play	
aburrido/a boring bailar to da	,	(adj.) poner	to put	3.2G	Comer y Beber		3.1H Hablando del tiempo libre y de los planes			
cantarto sinel cinecinemde vez en cuandofrom aentretenido/aenterestimulantechallejugarto plaleerto realibrefreeodiarto hallela películafilmpracticarto prasalirto gola tardeafterrel tecladokeybotocarto toto	g na time to time,occasionally taining enging y (game, sport) id re re totise out ioon, evening	por lo general siempre el teatro la telenovela terminar el tiempo todo/a/os/as tonto/a la vez 3.2G C	in general always theatre soap opera to finish time all, every silly, stupid time, occasion comer y Beber eral) (mineral) water to drink sandwich meat evening meal	el atún el bacalao la barra	hot dog fish chicken dessert, puddi cheese soup tea to take, to hav omelette toast glass vegetables nos a comer fu tuna cod loaf	e (food,	agra al ain outd la ba la ca dar u de v occa desa diver emo	lpinismo sado/a arrera	boring pleasant in the open air, drums song to go for a walk from time to time, challenging fun exciting eportes harás? rock climbing tired race	
3.3G ¿Haces de	porte?	cenar an evening meal	to have supper / to have	el bistec los calamares	steak squid		(cor	oncurso ntest)	competition	
outdoors ayudar to hel el baloncesto baske el campo count field la cancha court los deberes home la equitación horse el estadio stadiu	open air, p tball ryside, playing work riding m a horse	comer la comida desayunar el desayuno después el helado el huevo el jamón la leche las legumbres la mantequilla la manzana la mermelada las patatas fritas	to eat lunch, food, meal to have breakfast breakfast afterwards ice cream egg ham milk pulses butter apple jam, marmalade chips, fries	la cebolla el cerdo la cerveza los champiñones el chorizo la chuleta el cordero el filete la fresa las gambas el gazpacho los guisantes el jamón serrano las judías verdes	chorizo chop lamb fillet strawberry prawns chilled tomat peas cured ham		dura el ej el en entr el en este gan el ju mar el m	jercicio ntrenamiento enar quipo squí a, esta ar gador fiana hiembro artido	to answer during exercise training to train team skiing this to win player tomorrow member match to try, to test	

i

GCSE Unit 3 SPANISH Knowledge organiser. Topic Free Time Activities

i

What we are learning this term: 3.1F ¿Qué haces en tu tiempo libre?			Key Verbs						
A. Talking about free B. Talking about you	e time ur plans for the weekend	a veces bastante		<u>Salir</u>	<u>1</u>	To play	<u>Hacer –</u> to do/make	<u>Tocar</u>	
C. Talking about eati D. Talking about spe	ing out ecial occasion meals	cada 	to have an evening meal to chat	l go out	Voy	Juego I play	Hago	l play	
E. Extending what yo F. Talking about spo	ou can say about sport ort in the world	descansar	choir	You go out	You go	Juegas	Haces You do	Tocas You play	
6 Key Words for this		los dibujos animac el documental		Sale He/she goes out	Va s/he goes	Juega He/she plays	s/he does	He/she plays	
 disfrutar jugar los deportes 	4. campeones 5. formentar 6. a selección	las noticias	weekend great	Salimos	 They go	Jugamos We play	Hacemos	Tocamos	
	te gusta hacer?	nunca ocupado/a		Salen	Van They go	 They play	Hacen They do	They play	
aburrido/a bailar		policíaco/a	to put in general		Comer y Beber		3.1H Hablando del tiempo libre y de los planes		
to s cine de vez en cuando entretenido/a cha to p leer libre odiar la película to p	sing ema allenging blay (game, sport) 	in general always el teatro la telenovela		el perrito caliente el pescado el pollo 	dessert, pudding cheese soup to take, to have (food,		aburrido/a agradable al aire libre outdoors la batería la canción de vez en cuando occasionally desafiante divertido/a	in the open air, to go for a walk from time to time, exciting	
	ernoon, evening		eral)	3.2F Vamos a comer fuera			3.3F ¿Qué deportes harás?		
el teclado to to	ouch, to play(an instrument)	beber la carne 	sandwich evening meal to have supper / to have	el atún el bacalao 	loaf steak		el alpinismo cansado/a la carrera el concurso	(contest)	
3.3G ¿Haces d	deporte?	an evening meal	to have supper / to have	los calamares la cebolla		-	contestar	during	
outdoors ayudar el baloncesto cour field la cancha hom la equitación el estadio	ne open air, 	comer la comida desayunar el huevo el jamón la leche las legumbres la mermelada	breakfast afterwards ice cream butter apple chips, fries	el cerdo el chorizo la chuleta el filete el gazpacho los guisantes	beer mushrooms lamb strawberry prawns cured ham green beans	 	entrenar el equipo el esquí este, esta 	to win player to try, to test	

GCSE Business. Paper 1.

4. Making the Business Effective

39. Stakeholder

Stakeholders are the people or groups with an interest in the success or failure of an organisation.

Types of stakeholders & their typical objectives:

Business owners & shareholders

Interested in the business being successful and making a profit.

Staff/managers

Interested in having job security, career development, fair wages etc.

Customers

Interested in getting an honest and fair deal from a business.

Local Community

Interested in honest and fair dealing/co-operation with the organisation with regards to local employment and environment.

Local Government

Interested in employment plans, location plans and business ability to pay tax.

Pressure Groups

Interested in fair and ethically correct business practices.

42. Retail Legislation

Legislation	Law's passed by acts of parliament. Too many rules that impact on a business from operating as the owner would like are known as " Red Tape ".
Consumer Rights Act 2015	 Goods must be fit for purpose and free from defects. The buyer has the right to get their money back or have their product repaired at the seller's expense. Any issues are to be dealt with by the seller and not the manufacturer.
Trade Descriptions Act	 Trader's can not use false or misleading statements. Labels must not be misleading.
Other acts of legislation:	Consumer credit act 1974, The weights and measures act 1985, The food safety act 1990.

40. Types of technology used in business

Technology is used in different aspects of business:

E-commerce: Allows businesses to sell their products online and reach a wider audience of potential customers with lower costs.

Social Media: Allows a business to communicate and interact directly with customers.

Digital Communication: E-mail allows customers to contact a business personally and directly.

Payment Systems: Online payment systems (eg. Paypal) allow all types of businesses to access their payments fast and easily.

41. How does technology influence business activity?

Sales can increase as a result of e-commerce because customers can access products or services 24 hours a day, 7 days a week. New technology drives innovation to create new products or services and this can increase sales of new products.

Costs can be reduced through advertising online through websites, e-mail newsletters, and via social media. Costs can also be reduced through manufacturing efficiency and being able to find the best deal on raw materials online.

The 4 P's are affected by different types of technology.

Product = New technologically advanced product or a new method of production. Promotion = Digital marketing can improve the effectiveness of marketing and is cheap. Place = Products can be sold online and can be accessed by customers worldwide.

43. Recruitment Legislation

Employees are protected from being exploited in the work place.

Equality	Organisations must consider all job applicants equally in regards to
Act 2010	gender, age, skin colour etc.
Equal Pay	Organisations must pay workers fairly and can not discriminate in
Act 1970	regards to gender, age or skin colour etc.

44. The Economy

The economy is the collection of business transactions that take place throughout the country, throughout the year. The amount that a lender cha

Interest	The amount that a lender charges per year to someone who has
rates.	borrowed money. This is measured as a percentage.
Exchange	The value of the pound (£) measured by how much foreign currency
rates	can be bought per pound (£).
Recession	A downturn in sales and output throughout the economy, often
	leading to rising unemployment.

Inflation The rate in which prices are rising from the same time last year.

GCSE B	usiness.	. Paper	1.
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4. Making the Business Effective

39. Stakeholder
Types of stakeholders & their typical objectives:
Business owners & shareholders
Staff/managers
Customers
Local Community
Local Government
Pressure Groups

40. Types of technology used in business
Technology is used in different aspects of business:
E-commerce:
Social Media:
Digital Communication:
Payment Systems:
41. How does technology influence business activity?

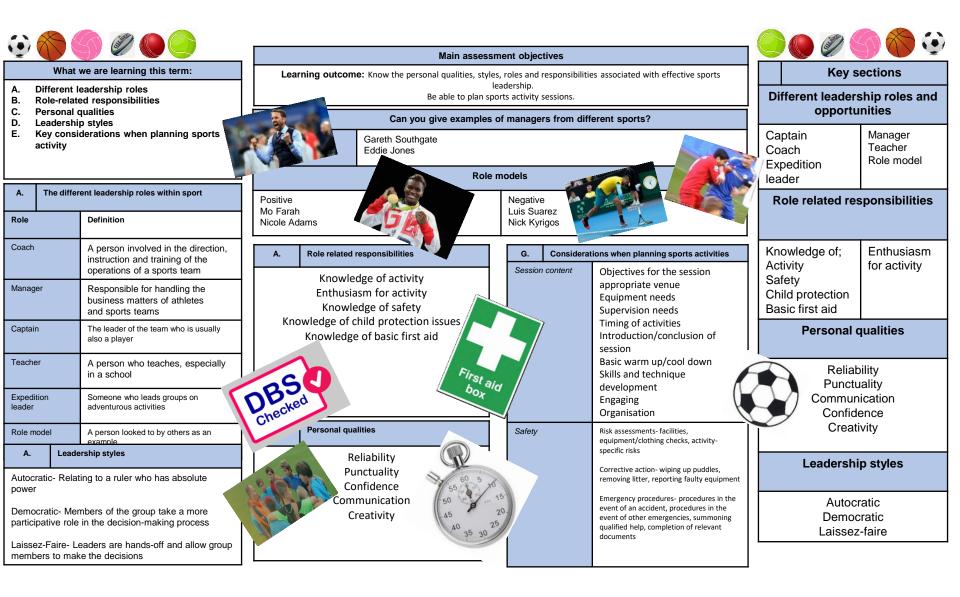
42. Retail Legislation	43. Recruitment Legislation
	Employees are protected from being exploited in the <u>work place</u> .
Legislation Consumer Rights	Equality Act 2010
Act 2015	Equal Pay Act 1970
Trade Descriptions Act	44. The Economy The economy is the collection of business transactions that take place throughout the country, throughout the year.
Other acts of legislation:	Interest rates. Exchange rates
	Recession Inflation

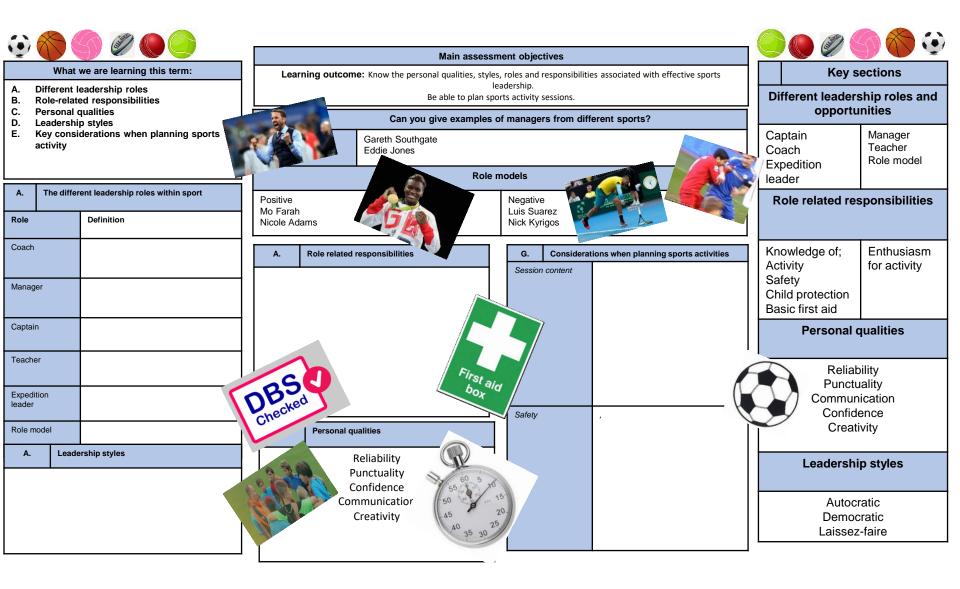
Macronutrients, fibre and water- Term 6

			Carbohydrate All types of carbohydrate are	compounds of carbon,	Key terms Dietary reference values:		
Alcohol Alcohol is not considered a nutrient, but is a source of energy in the diet. The government recommends no more than 14 units of alcohol per week for both men and women.	Protein •Made up of building blocks c •There are 20 amino acids for •Eight amino acids have to be diet (called essential amino a The essential amino acids (E. isoleucine, leucine, lysine, me	und in protein. e provided by the cids). AAs) are	hydrogen and oxygen. They of main groups according to the These three types are: •monosaccharides (e.g. gluco •disaccharides (e.g. lactose); •polysaccharide (e.g. sucrose The two types main of carboh	size of the molecule. (se); ().	Estimated dietary requirements for particular groups of the population. Essential amino acids: 8 of the different amino acids found in proteins from plants and animals that		
Macronutrients Macronutrients provide energy. The macronutrients are: •carbohydrate; •protein; •fat. Macronutrients are measured in grams (g).	phenylalanine, threonine, tryp In young children, additional a histidine and tyrosine, are sor to be essential (or 'conditiona because they may be unable meet their needs. Recommendations •0.75g/kg bodyweight/day in a	otophan and valine. amino acids, e.g. metimes considered illy essential') to make enough to	dietary energy are starch and also a type of carbohydrate. Starchy carbohydrate is an im energy. Starchy foods - we should be versions of starchy foods whe Recommendations •Total carbohydrate - around	portant source of choosing wholegrain the possible.	have to be provided by the diet. Macronutrients : Nutrients needed to provide energy and as the building blocks for growth and maintenance of the body. Protein complementation : Combining different protein types at the same meal to ensure all EAAs are ingested. Reference Intakes : Guidelines for the maximum amount of		
 Energy from food Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal). Different macronutrients, and alcohol, provide different amounts of energy. 	Sources: Animal sources: meat; poult dairy food. Plant sources: soya; nuts; se pulses, e.g. beans, lentils; my In young children, additional amino acids tyrosine, are sometimes considered to be essential') because they may be unable to their needs.	try; fish; eggs; milk; eeds; /coprotein. 5, e.g. histidine and e essential (or 'conditionally	energy. •Free sugars include all sugar sugars naturally present in ho unsweetened fruit juice (<5% •Fibre is a term used for plant that are not digested in the sn adults).	ney, syrups and daily food energy). -based carbohydrates			
Protein complementation Different food contains different amounts and combinations of amino acids. Vegans and vegetarians can get all the amino acids they need by combining different protein types at the same meal. This is known as protein complementation. Examples are: •rice and peas; •beans on toast; •hummus and pitta bread; •bean chilli served with rice.	when they have one do	of estimates of the e requirements of diffe people in the UK pop recommendations of Reference Intakes maximum amount of saturated fat, sugars day (based on a hea	alues (DRVs) are a series nergy and nutritional erent groups of healthy pulation. They are not r goals for individuals. are guidelines for the i energy (calories), fat, and salt consumed in a althy adult female).	coffee all count. •Fruit juice and smoothies al no more than a combined to 20% of water is provided by fruit and vegetables. The other 80% is provided by juice.	agar-free drinks including tea and so count but should be limited to al of 150ml per day. food such as soups, yogurts, by drinks such as water, milk and n lead to 'water intoxication' with yponatraemia.		
Fibre •Dietary fibre is a type of carbohydrate found in plant foods •Food examples include wholegrain cereals and cereal prod oats; beans; lentils; fruit; vegetables; nuts; and, seeds. Dietary fibre helps to: •reduce the risk of heart disease, diabetes and some cancers •help weight control; •bulk up stools; •prevent constipation; •improve gut health.	 *<35% energy, Saturate A high saturated fat inta Sources: Saturated fat: fatty cuts cakes and pastries; cho Monounsaturated fat: 	ake is linked with high s of meat; skin of poul poolate. edible oils especially r acids : edible oils esp	blood cholesterol levels. try; butter; hard cheese; biscuits, olive oil; avocados; nuts. ecially sunflower oil; seeds; able oils and oily fish.	FTBER			

Macronutrients, fibre and water- Term 6

Alcohol Alcohol Alcohol is not considered a nutrient, but is a source of energy in the diet. The government recommends no more than 14 units of alcohol per week for both men and women. Macronutrients Macronutrients provide energy. The macronutrients are:; protein; F Macronutrients are measured in grams (g). Energy from food Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal). Different macronutrients, and alcohol, provide different amounts of energy.	Protein •Made up of building blocks of •There are amino aci •Eight amino acids have to be diet (called essential amino a The essential amino acids (E isoleucine, leucine, lysine, me phenylalanine, threonine, tryp In young children, additional histidine and tyrosine, are son to be essential (or 'conditional because they may be unable meet their needs. Recommendations •0.75g/kg bodyweight/day in a Sources: Animal sources: meat; poult dairy food. Plant sources: soya; nuts; so pulses, e.g. beans, lentils; my In young children, additional amino acids tyrosine, are sometimes considered to b essential') because they may be unable t their needs.	ids found in protein. e provided by the icids). AAs) are ethionine, btophan and valine. amino acids, e.g. metimes considered illy essential') to make enough to adults. try; fish; eggs; milk; eeeds; /coprotein. s, e.g. histidine and e essential (or 'conditionally	Carbohydrate All types of carbohydrate are of c, hydrogen and o divided into three main groups the molecule. These three types are: •		Key terms Dietary reference values: Estimated dietary requirements for particular groups of the population. Essential amino acids: 8 of the different amino acids: 8 found in proteins from
Protein complementation Different food contains different amounts and combinations of		of estimates of the e requirements of diffe people in the UK po recommendations of Reference Intakes maximum amount of saturated fat, sugars day (based on a hea	values (DRVs) are a series energy and nutritional erent groups of healthy pulation. They are not r goals for individuals. are guidelines for the f energy (calories), fat, s and salt consumed in a althy adult female).	 coffee all count. Fruit juice and smoothies al no more than a combined tot 20% of water is provided by fruit and vegetables. The other 80% is provided by juice. 	Fluid every day. ugar-free drinks including tea and so count but should be limited to tal of 150ml per day. r food such as soups, yogurts, by drinks such as water, milk and n lead to 'water intoxication' with yponatraemia.
Fibre •Dietary is a type of carbohydrate found in plant fo •Food examples include wcereals and cereal products; oats; beans; lentils; fruit; vegetables; nuts; and, se Dietary fibre helps to: •reduce the risk of heart d, diabetes and some can •help weight control; •bulk up stools; •prevent c; •improve gut health.	blood cholesterol levels. Foultry; butter; hard cheese; olive; avocados; nuts. becially sunflower oil; seeds; able oils and oily fish.	FIBER			







Year 10 ENGINEERING Term 6



Α.	Physical	& Working Properties	What	we are lear	ning this term:		E.	Forces and	Stressors					
	l properties pre it is use	are the traits a material d.			•	Metals Iterative		•		Stressors Requirements	break	Forces apply stress to objects, causing them to break or change shape. Different materials can withstand different		
Absorbe	ency	Ability to soak up moisture, light or heat	В.	Natural & Manufactured C. Metals & Alloys Timbers					force					
Density	,	How solid a material is	Notur	al timber cor	Metals are extracted from natural ore.				Tens		s a stretching or pulling orce.			
			Hardy		Softwood	Fer	rrous		Non	-ferrous		1	E.g. the ropes of a suspension bridge	
Fusibilit	ty	Ability of a material to be heated and joined to	Ash	wood	Larch	-	w-carb Id stee	on steel	Alun	ninium	Com			
		another material when cooled	Beech	<u></u> า	Pine	,	st Iron	,	Сор	ner	Com	f	s a pushing or squashing orce,	
			Maho	-	Spruce			oon steel	Tin				e.g. the weight of a building on its foundation	
Electric Conduc		Ability to conduct electricity	Oak	<u>g</u>)	Softwoods are		ol stee		Zinc		Bend	ling l	s a combination of tension	
Therma		Ability to conduct heat	Balsa		faster growing & cheaper to buy.	Cor	ntain i	ron and		not contain iron,			and compression. t exerts tension on one side	
Conduc	tivity		Monu	factured Bo		are	magr	netic,		magnetic. Do			and compression on the other.	
		are how a material manipulated.	Manufactured boards are usually made			pio		iusi.		usi.			e.g. bending anything	
			from r	natural timbe	er waste and	Allo	oys				Shea		s a cutting force.	
Strengtl	n	Ability of a material to withstand compression,	adhes				Alloys are mixtures of two or more metals to improve its properties or aesthetic.					The opposing forces are not directily opposite each		
		tension and shear		-	breboard (MDF)					1	-		other, e.g. cutting paper with	
Hardnes	SS	The ability to withstand impact with damage	Plywo			Brass Stainless High-speed Steel steel				scissors.				
Toughn	0000	Materials that are hard	Chipb	oard							Tors		s a twisting force that	
rougini	1033	to break or snap are	D.	Iterative	Design / Identify -> De	sign ->	> Opti	mise -> Val	idate				attempts to rotate two ends of a material in opposite	
		tough & can absorb shock	Desig	gn Brief	Statement of how you	are goi	ing so	lve the desig	gn prob	blem			directions, e.g. wringing out a wet cloth.	
Malleab	oility	Being able to bend or	Rese	arch	Research findings and	client f	feedba	ack help ins	pire ide	eas	F.	Due due (De		
		shape easily would make a material easily	Spec	ification	List of requirements yo	ur proc	duct h	as to meet t	o be su	uccessful		Product Re		
		malleable	Desig	Design Plan for the construction of your product – how is it going to look?								e are what a pr ommon require	oduct has to meet / must ments are:	
Ductility	y	Materials that can be	Proto	Prototype Creating a mock-up of the product to check design and function								Features	Performance	
		stretched are ductile	-	Error Ensuring that the product cannot be assembled or used in an incorrect way.							Та	rget Market	Working Environment	
Elasticit	ty	Ability to be stretched and then return to its		Testing Done to ensure that the product is successful before it is released						t is released	C	onstraints	Ergonomics	
		original shape			into the competitive ma				5.0101			Lifecycle	Aerodynamics	



Year 10 ENGINEERING Term 6



A. Physical	& Working Properties	What	we are learr	ning this term:		E.	Forces an	d Stre	essors					
Physical properties has	are the traits a material			• •	/letals & erative l	•		rces & Stre oduct Requ		Forces apply stress to objects, causing them to break or change shape. Different materials can withstand different				
Absorbency		B. Natural & Manufactured Timbers			C. Metals & Alloys			forces		Carry		GIIL		
Density		Natura	al timber com	nes from trees.	Metal	ls are e	xtracted	from natura	al ore.	Tensi	on			
		Hardw		Softwood	Ferrous Non-ferrous			rous						
Fusibility														
										Comp	pression			
Electrical														
Conductivity				Softwoods are faster growing &						Bend	ing			
Thermal Conductivity				cheaper to buy.		ain iron nagnetio			contain iron, netic. Do					
Working properties	are how a material	Manut	factured Bo	ards		e to rust		not rust.						
		Manufactured boards are usually made from natural timber waste and			Alloys									
Strength		adhes		r waste and	Alloys are mixtures of two or more metals			Shear	r					
					to improve its properties or aesthetic.									
Hardness														
Toughness			1							Torsi	on			
		D.	Iterative I	Design / Identify -> Des	sign -> 0	Optimis	se -> Vali	date						
		Desig	n Brief											
Malleability		Resea	arch											
		Speci	fication							F.	Product R			
		Desig	n								e are what a common requi		ct has to meet nts are:	/ must
Ductility		Proto	type									Т		
		Error Proofi												
Elasticity		Testin												
		result	. ช											



Year 10 PRODUCT DESIGN Term 6



What we are lea	arning this term:			D.	Co	omposite Mater	ials			
A. Modern Ma	aterials C. Polymers	E. Teo	chnical Textiles	A comp	posite	e material is a m	ixture of two	or more materials to	enhan	ce properties.
B. Smart Mate	erials D. Composite Materi	ttiles	Fibre-based Material			Materials	terials Common Uses			
A. Modern	Materials	Glass-r (GRP)						ats, instrument cases		
A modern mater	ial is a material that has been e	ngineered to ha	ve improved properties.	, ,		fame al alastia	O ante a cita			and the second
Туре	Properties		Common Uses	(CRP)		nforced plastic	Carbon fibr	es and resin		mula 1 car bodies, crash mets, sports equipment
Graphene	Transparent. Very strong and	light	Protective equipment and clothing	Glass-r concret			Glass fibres	s and concrete		eet furniture, urban tures.
Metal Foams	Lightweight. Strong under con Absorbs energy well.	npression.	Prosthetics. Soundproofing and crash protection.	Particle	le-bas	sed	Materials		Co	mmon Uses
Titanium	High strength-to-weight ratio.	Corrosion	Prosthetics. Aircraft and	Concre	ete		Cement, sa	and and aggregate	Bui	ldings, street furniture
maniani	resistant.	0011031011	spacecraft.	Cemen	nt		Ceramic ar	nd metal	Ele	ctronic components
B. Smart I	Materials			Sheet-l	-base	ed composite m	aterials – lo	ok back to Term 4 -	Manu	factured Boards
Materials that ex	whibit a physical change in respo	onse to some ex	ternal stimuli and change back	Medium Density Fibreboard			(MDF)	Plywood		Chipboard
once that stimul	i has been removed.		ç	E.	Те	chnical Textiles	S			
Shape-memory frames	alloys (SMA) – spectacle	Thermochrom spoons	nic pigments – colour changing	Modern	n texti	tiles can be engi	neered to ha	ve numerous propert	ies.	
Photochromic pi lenses and wind	gments - colour changing		naterials – metals that resist	Conductive Fabrics – Fire-retardant fabrics – fur touch screen gloves			ant fabrics – furniture	, furnis	hings, firefighter clothing.	
Ferrofluids forme hydraulic susper	ed by magnetic field – nsion pistons	Polymorph –n handles	nodelling and ergonomic	, U			Microfibres – winter clothes and cleaning cloths			roencapsulation – sports thing and scratch and if perfume samples
C. Polyme	ers – come from crude oil			F.	Te	extiles				
Thermoforming	can be heated and formed repea	atedly, thermose	etting can only be formed once	Textile	e mate	erials can be fou	nd natural or	can be formed synth	etically	/
Thermoforming	g (pliable, recyclable)	Thermosettir	ng (good insulators)	Natura	al – co	ome from plant	s or animals	Synthetic -	come	from coal or oil
Acrylic (PMMA)		Epoxy resin (ER)	Cotton	n (plan	nt)		Polyester		
High impact poly	vstyrene (HIPS)	Melamine for	maldehyde (MF)	Wool (a	ŭ	,		Polyamide (r	vlon)	
High density pol	ythene (HDPE)	ne (HDPE) Phenol formaldehyde (PF)				,			yi0ii)	
Polypropylene (I	PP)	Polyester resi	in (PR)	Silk (an		,		Elastane		
Polyvinyl chlorid	ehyde (UF)	Blende	ed – a	a mixture of fib	res that com	bines and improve	s prop	erties		
Polyethylene ter	ephthalate (PET)	These are res	sistant to heat and chemicals	Polycot	otton		Kevlar		Sy	mpatex

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Year 10 PRODUCT DESIGN Term 6



What we are le	earning this term:		D. Composite Materials						
A. Modern M B. Smart Ma			chnical Textiles tiles	A composite material is a mixture of two or more materials to enhance properties.					
A. Moder	n Materials			Fibre-k	based	Materials		Common Uses	
	erial is a material that has been er	a improved properties							
Туре	Properties		Common Uses						
Graphene				Particl	e-based	Materials		Common Uses	
Metal Foams									
Titanium									
				Sheet-	based composite m	aterials – loo	ok back to Term 4 – I	Manufactured Boards	
B. Smart	t Materials								
	exhibit a physical change in respo	nse to some ext	ternal stimuli and change back						
once that stime	uli has been removed.			E.	Technical Textile	S			
				Moderr	n textiles can be engi	neered to have	e numerous propertie	S.	
C. Polym	ners – come from crude oil			F.	Textiles				

Thermoforming can be heated and formed repe	atedly, thermosetting can only be formed once	Textile materials can be found	natural or can b	e formed synthe	tically
Thermoforming (pliable, recyclable)	Thermosetting (good insulators)	Natural – come from plants o	or animals	Synthetic – co	ome from coal or oil
		Blended – a mixture of fibres	that combines	s and improves	properties

Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAA

What we are learn									
A. Key words		В	What are the n	nain life stages?	c	C What are the 4 areas of growth and development (PIES)?			
B. What are the n C. What are the 4	areas of growth and	Age Group	Life Stage	Developmental Characteristics and Progress	Phys		P = growth patterns and changes		
development (I D. How do Huma	PIES)? ns develop physically (P)?	0-2 years	Infancy Sill dependent on parents but growing quickly and developing physical skills.				in the mobility of the large and small muscles in the body that		
A. Key words fo	r this Unit	3-8	Early	Becoming increasingly independent,	1	Ш Ш	happen throughout life.		
Characteristics	Something that is typical of people at a particular life stage.	years	Childhood	improving thought processes and learning how to develop friendships.	Deve	lectual elopment	I = how people develop their thinking skills, memory and		
Life stages	Distinct phases of life that each person passes through.	9-18 years	Adolescence	Experiencing puberty, which bring physical and emotional changes.	(I)	Ð	language.		
Growth	Increased body size such as height, weight.	19-45 years	Early Adulthood	Leaving home, making own choices about a career and may start a family.	Deve	otional elopment ⓒⓒ	E = how people develop their identity and cope with feelings.		
Development	Involves gaining new skills and abilities such as riding a bike.	46-65 years	Middle Adulthood	Having more time to travel and take up hobbies as children may be leaving home;	(L) Soci	8	S = describes how people develop		
Gross motor development (G)	Refers to the development of large muscles in the body e.g. Legs	65+	Later Adulthood	beginning of the aging process. The aging process continues, which may			friendships and relationships.		
Fine motor development (F)	Refers to the development of small muscles in the body e.g. Fingers	D.							
Language development	Think through and express ideas	0-2		r Development (G) = life head, roll over, sit unaic	led, wa	lk holding o	nto something, walk unaided, climb		
Contentment	An emotional state when people feel happy in their environment, are cared for and well loved		Fine Motor hold betwee	and throw, walk upstairs, jump. Development (F) = hold a rattle for short time, re en finger and thumb, scribble, build a tower, use	a spoor	n, draw line	s and circles, turn page of a book.		
Self-image	How individuals see themselves or how they think others see them	3-8	ride a bike, • F = hold a c	ricycle, catch a ball with two hands, walk backwa catch a ball with one hand, balance along a thin crayon to make circles and lines, thread small be dels with construction bricks, joined up writing, u	line. ads, co	py letters ar	nd shapes with a pencil, make		
Self-esteem	How good or bad an individual feels about themselves and how much they values their abilities.	9-18	 Girls = pube Boys = voic 	erty starts at 10-13 years, breasts grow, hips wid e deepens, muscles and strength increase, erec c and underarm hair, growth spurts.	en, mer	nstruation b	egins, uterus and vagina grow.		
Informal relationships	Relationships formed between family members	19-45		nature, sexual characteristics are fully formed, pe	eak of p	hysical fitne	ess, full height, women at most		
Friendships	Relationships formed with people we meet in the home or in situations such as schools, work or		 fertile. Later in the life stage people may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down 						
Formal	clubs relationships formed with non-	46-65	• Women go through the menopause - when menstruation ends and they can no longer become pregnant.						
relationships	family/friends – such as teachers and doctors.	65+	 Men may continue to be fertile throughout life but decrease in sperm production in this life stage. Women's hair becomes thinner, men may lose most of their hair, skin loses elasticity and wrinkles appear, nails 						
Intimate relationships	romantic relationships.			ittle, bones weaken, higher risk of contracting inf action time, muscle and senses (hearing, sight, t			d illness.		

Year 10 BTEC Health and Social Care- Component 1: Human Lifespan Development. LAA

Wha	at we are learn	ing this term:								
Α.	A. Key words		В	What are the r	main life stages?	c	What are the 4 areas of growth and development (PIES)? Explain them.			
		nain life stages areas of growth and	Age Group	Life Stage	Developmental Characteristics and Progress	Physi				
	development (How do Huma	PIES)? ns develop physically (P)?	0-2			Deve (P)	lopment			
Α.	Key words fo		years			(
Char	acteristics		3-8 years			Intelle	⊔ ectual			
Life s	stages		9-18 years				lopment			
Grow			19-45 years			Emot Deve (E)	lopment			
Deve	elopment		46-65 years			(E) (
	s motor lopment (G)		65+ years			Socia Deve (S)				
	motor lopment (F)						\sim			
Lang	uage		D.	How do huma	ns develop physically (P)?					
	lopment		0-2							
Cont	entment		3-8							
Self-i	image		3-0							
Self-	esteem		9-18							
Inforr relati	mal onships		1 9-4 5							
Frien	idships									
			46-65							
Form relati	nal onships									
Intim relati	ate onships		65+							

Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAA

Wha	at we are le	earning this term:	F.	How do	humans develop emotionally (E)?				
		Imans develop intellectually (I)?			Infancy and Early Childhood	Adolescence and adulthood			
	How do hu	Imans develop emotionally (E)? Imans develop socially (S)?	Bondin	g and atta	t <u>tachment</u> achment describe the emotional ties an individual s. It starts in the first year of life between infants	Self-image and Self-esteem Self-image is heightened during adolescence because of the physical changes we experience. Our self-esteem can change			
∟. Infar	<u> </u>	At birth brains are already well	and the	eir main c	arer because that person fulfils the infants needs em feel safe and secure.	from day to day based on a variety of factors including employment and health status.			
-	developed. Infants use all of their senses to learn about the world around them. Infancy is a time of rapid intellectual development. At 3 months infants can remember routines. At 9-12 months infants are developing their memory. At 12			ants and y ared for,	young children, security is mainly the feeling of being safe and loved – it is closely linked with	Security Adolescence may feel insecure because of puberty. Adults may feel insecure about relationships, job security of income. Later in life adults may feel insecure about staying in their own home or going into a care home. Feeling secure helps us cope better with everyday situations.			
months to 2 years infants understand processes and how things work. Language begins to develop during this stage.				and your	ng children are content if they have had enough lean and dry and all other needs are met.	<u>Contentment</u> When people feel discontented with aspects of their life – for example, relationships or work – their emotions can be negatively affected.			
	At 3-4 years of age children become more inquisitive and enjoy exploring objects and materials. They ask lots of questions and enjoy solving simple problems. At 5-6 years old children's memory is becoming well developed. This helps		Indepe decisio childrer – feed	ns. Infant n enter ea	s to care for yourself and make your own is are completely dependent on their carer. As arly childhood they develop more independence get dressed. However, children still need a lot of arer.	Independence Adolescence are dependent on their parents but are beginning to enjoy more independence and freedom to make their own choices. Adults enjoy living independently and controlling their own lifestyle and environment. Later in adulthood people become more dependent on others again.			
		them to talk about the past and anticipate the future.	G.		How do humans develop socially (S)?				
Adol	escence	During this time abstract thought is	Life St	age	Types of relationships and social development				
71001		developed – thinking logically and solving complex problems are	Infancy	/	 Solitary Play - From birth to 2 years, infants te carer; they may be aware of other children but 	nd to play alone although they like to be close to their parent or t not play with them.			
ł		possible by the end of this life stage. Adolescents may find it difficult to understand the consequences of their actions but they are developing empathy – seeing things from another's point of view.	Early childho	od	 Parallel Play - From 2 to 3 years, children enjoy playing next to other children but are absorbed in their ov game; they are not socialising or playing with other children. Cooperative or social play – from 3 years upwards, children start to play with other children; they have de social skills that help them to share and talk together; they often make up games together, such as being shopkeeper and customer. 				
Midd	/ and lle thood	By these life stages most adults have a good range of general knowledge. They use this knowledge and	Adoles	cence	 People become more independent and build r Social development closely linked to emotions Often strongly influenced by peers – 'peer gro 	S			
		experience to solve problems that they come across in their personal and work lives.	Early adulthc	bod	 Increased independence means greater contr People may be developing emotional and soc Social life often centred on the family but social 				
	adulthood to learn and develop i	During this life stage people continue to learn and develop intellectually, however, their speed of thinking and	Middle adulthc		Children have often left home, but there are lilSocial circles may expand through travel, specific terms	kely to still be strong family relationships. nding more time on hobbies or joining new groups.			
	fi	memory may decline. This may affect their ability to think through problems and make logical decisions.	Later adultho	bod		social time with family and friends or join new groups. gin to feel isolated if they struggle to get out or if partners and			

Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAA

What we are learning this term:				F. How do humans develop emotionally (E)? Explain each.					
 E. How do humans develop intellectually (I)? F. How do humans develop emotionally (E)? 			Infancy and Early Childhood			Adolescence and adulthood			
G.	G. How do humans develop socially (S)?			ng and At	ttachment	Self-image and Self-esteem			
Е.	E. How do humans develop intellectually (I)?								
Infar	юу								
	0		<u>Security</u>			Security			
-	y- \								
			Contentment			<u>Contentment</u>			
Early child	/ hood		Independence			Independence			
í	R								
	7		G.		How do humans develop socially (S)?				
Adal	escence		Life St	age	Types of relationships and social development				
Auon	escence		Infancy	/					
J			Early childho	ad					
			crilland	Jou					
Early	/ and		Adoles	scence					
Midd Adul	le thood		F ashi						
			Early adulthoo						
Later adult	r :hood		Middle						
			adultho Later	bod					
	f 1		adultho	bod					

What we are learning this term:

- H. Key words
- I. How do physical factors affect development?
- J. How does lifestyle affect development?
- K. How do social and cultural factors affect development?
- L. How do relationships and isolation affect development?
- M. How do economic factors affect development?

H Key words:			
Genetic inheritance	Genes the person inherits from their parents		
Genetic disorders	Health conditions that are passed on from parent to child through their genes. e.g. cystic fibrosis		
Lifestyle Choices	Include the food you eat and how much exercise you do. They also include whether you smoke, drink alcohol or take illegal drugs.		
Appearance	The way that someone or something looks		
Factor	A circumstance, fact, or influence that contributes to a result		
Gender role	The role and responsibilities determined by a person's gender.		
Culture	ideas, customs, and social behaviour.		
Role models	Someone a person admires and strives to be like.		
Social Isolation	Lack of contact with other people		
Material possessions	Things that are owned by an individual		
Economic	To do with person's wealth and income.		

1	1 11										
	I. How do	physical factors affect developmen)t <i>?</i>								
ment?		Genetic Disorders		Disease and Illness							
ct	Physical Development	A person's physical build can affect abilities. Inherited diseases may affe and stamina needed to take part in	ect strength	May affect the rate of growth in infancy and childhood. Could affect the process of puberty. Could cause tiredness and/or mobility problems. Could limit of prevent participation in physical activity.							
oment?	Intellectual Development	Some genetically inherited diseases missed schooling, or have a direct in learning – conditions such as Edwa impact learning.	mpact on	School, college, university, work or training could be missed. Memory and concentration could be affected.							
s from their	Emotional Development	Physical appearance affects how in themselves (self-image), and how o to them impacts on their confidence wellbeing.	thers respond	May cause worry and/or stress. Individuals may develop negative self-esteem. Could lead to feelings of isolation.							
gh their .	Social Development	Physical characteristics or disease r opportunities or confidence in buildi		May cause difficulty in having opportunities to socialize with other and build wider relationships.							
and how much	h and becoming independent.										
alcohol or											
something	Lifestyle choices include; diet, exercise, alcohol, smoking, sexual relationships and illegal drugs, appearance.										
nfluence that	 Positive lifestyle of Healthy hair, sl Positive self-im Energy and sta 	erweight or underweight inergy									
ies gender.	 Energy and stamina Good health Emotional security III health Negative self-image Sexually transmitted diseases (STDs) Unplanned pregnancy 										
al behaviour.	sonal hygiene and our clothing.										
es and strives	Positive self-image	an affect the way we view ourselves- so	Negative self-image								
r people	 Feel good about Healthy hair, sl Big social circle 	kin, nails and teeth	Low self-esteem Low self-confidence Can lead to eating disorders e.g. anorexia								
an individual	High self-esteeHigh self-confid	m	• Can • Can	lead to anxiety or depression lead to self-harm ative impact on building relationships- social circle							
th and income.			-	reases.							

Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAA

What we are learn	ning this term:	I.	How do	physical factors affect developr	nent?			
 H. Key words I. How do physical factors affect development? J. How does lifestyle affect development? K. How do social and cultural factors affect development? L. How do relationships and isolation affect development? M. How do economic factors affect development? 			l ment ual ment	<u>Genetic Disorde</u>	ers		Disease and Illness	
H Key words:								
Genetic inheritance		Emotion Develop						
Genetic disorders		Social Develop	ment					
Lifestyle Choices				s lifestyle affect development? include; diet, exercise, alcohol, sm	oking sexi	ual relationshi	ins and illegal drugs, appearance	
Appearance				choices lead to:	<u> </u>		le choices lead to:	L.
Factor		• • • •		ĿĹ				ν
Gender role		•			•			
Culture		Our appe	earance in earance ca	ncludes: body shape, facial features an affect the way we view ourselves	s, hair and s- self-imag	nails, persona je	al hygiene and our clothing.	
Role models			self-imag		رحي ا	Negative se	elf-image	Γ.
Social Isolation						•		υ
Material possessions		• • •				• •		
Economic						•		

Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAA

K How do social and cultural factors affect development			What we are learning this term:				
Development can be influenced by the persons culture or religion because it affected their: Values: how they behave 			 K. How do social and cultural factors affect development? L. How do relationships and isolation affect development? M. How do economic factors affect development? 				
Lifestyle choices: diet, a Positive affects of a	Negative affects of a persons	L	How do relationships and isolation affect development?	М	How do economic fa	actors affect development	
 persons culture/religion: A sense of security and belonging from sharing the same values and beliefs with others. Good self-esteem through being accepted and valued by others Culture/religion: Feeing discriminated against by people who do not share their religion/culture which leads to low self-image Feeing excluded and isolated because their needs like diet, are not catered for. 		1	In adolescence, young people often argue with parents because they want more independence- negative affect on family relationships- can lead to isolation from them.	give fam	ving enough money es individuals and their ilies feeling of content I security	Not having enough money causes stress and anxiety.	
		2	In later life, older people might need to rely on their children for support. This then has a positive affect on their development because all their need are catered for.	me	ving enough money ans that the whole ily is eating healthy.	Not having enough money can mean that the family is not about to eat well balanced diet, and this has a negative	
Community refers to: local area where people live, school, religious group or hobby clubs. They have common values and goals.			Relationships are important because they provide emotional security, contentment and positive self- esteem.		effect on their physical development		
Belonging to a community:Not belonging to a community:• Brings sense of belonging essential for emotional development.Not belonging to a community:• Minimal contact with others- isolation		4	The breakdown of personal relationships can have a negative effect on persons PIES development:	enc the	Elderly people rely on state pension to live which is not enough and have to cut down on travel, shopping, bills, therefore it speeds their aging process and lead to health decline.		
Building and maintaining relationships- social development	 depression Making negative lifestyle choices Feeling less secure Difficulty in building relationships Slow self-image and 		Low self-esteem, loss of confidence, stress.		ng in good housing 1 open spaces:	Living in a poor housing with cramped and damp	
 Feeling of security. Increases self-image and self-confidence 		5	Isolation can happen when individuals do not have the opportunity of regular contact with others. They have no one to share their feelings, thoughts and worries with resulting in feeling insecure and anxious.	·	Feeling good about themselves Be more likely to stay healthy, Space to take exercise Feel safe ad secure	 <u>conditions:</u> Have low self-esteem and self-image Be more likely to experience ill health Be lesson likely to 	
Self-confidence Traditionally, men and women had distinctive responsibilities and expectations which for their gender called gender roles . However, nowadays UK equality legislation stops			6 Isolation can happen because they live alone, are unemployed or retired, are discriminated against or have an illness or a disability.		Warmth	exercise Anxious and stressed. 	
 people being discriminated against because of their gender. What happens when people face discrimination because of gender: They might be excluded from a group They may be refused promotion at work They may be expected to carry out a particular role They may be paid less. 			People have role models- infants learn by copying others, and adolescence base their identity on their role models. Role models can influence how people see themselves compared to others and their lifestyle chices0 can be positive or negative.	nev pos per bec mol	erial possession like a v phone or coat has a itive effect on the sons development ause they might have re friends as they look er, high self-image.	Not having a phone or the newest trainers can have a negative affect in the persons self-image and self-esteem. They might feel isolated from others.	

Year 10 BTEC Health and Social Care- Component 1: Human Lifespan Development. LAA Κ How do social and cultural factors affect What we are learning this term: development K. How do social and cultural factors affect development? Development can be influenced by the persons culture or How do relationships and isolation affect development? L. religion because it affected their: M. How do economic factors affect development? Values: how they behave Lifestyle choices: diet, appearance ٠ How do relationships and isolation affect L Μ How do economic factors affect development development? Positive affects of a Negative affects of a persons persons culture/religion: culture/religion: Not having enough Having enough money.... . 1 money 2 Having enough money Not having enough means that.... money can mean that ... Community refers to: 3 Elderly people rely on state pension to live which is not Not belonging to a Belonging to a community: enough and have to cut down on travel, shopping, bills, community: therefore it speeds their aging process and lead to 4 • health decline. Living in good housing Living in a poor housing with cramped and damp with open spaces: conditions: 5 • . 6 Traditionally, men and women had distinctive responsibilities and expectations which for their gender called gender ٠ roles. However, nowadays UK equality legislation stops Material possession like a Not having a phone or people being discriminated against because of their gender. new phone or coat has a the newest trainers can 7 have a negative affect What happens when people face discrimination because of positive effect on the persons development on Because gender: because

Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAB

What we are	learning this term:	0.	How do people deal with life events?			
N. What are O. How do p	e life events? people deal with life events?	Individual	 The effects of life events vary from person to person based on how they deal with their new situation. Some people react to able to react to life events positively, others find it more difficult due to a range of factors. 			
supporte	ealing with life events d? are life events?	Factors	 Factors that may affect how people cope with life events: age, other life events happening at the same time, the support they have, their disposition (their mood, attitude and general nature), their self-esteem, their resilience (how quickly they recover). 			
N. What	are me events?	Adapting	Adapt – to adjust to new conditions or circumstances.			
Life Events	Life events are expected or unexpected events that can		 Expected on unexpected life events can often force people to make changes to their lives. Individuals must find their own way to adapt to the changes that life throws at them. 			
	affect development. Examples include starting nursery, getting married or becoming ill.	Resilience	 Resilience – a person's ability to come to terms with, and adapt to, events that happen in life. Resilience is stronger in people who have a positive outlook on life, accept that change happens, has supportive family and friends and plans for expected life events. 			
Expected Life Events	Expected life events are life events that are likely to happen. Examples include	Time	 Sometimes people need a long time to adapt to unexpected life events. It can take time for people to move on from and accept difficult changes in their life. 			
	starting primary school aged four and secondary school	Ρ.	How is dealing with life events supported?			
Unexpected	aged 11. Unexpected life events are	Types of Support	How this helps individuals deal with life events			
Life Events	events which are not predictable or likely to happen. Examples could include divorce and bereavement (the	Emotional Support	Emotional support is needed to help individuals deal with all life events – expected and unexpected. Having someone to talk to helps people feel secure and adapt to change. Sometimes individuals can find this support in family and friends or professionals to process difficult life events – such as bereavement.			
Physical Events	death of a loved one). Physical events are events that make changes to your body, physical health and mobility.	Information and Advice	Life events, particularly unexpected ones, can cause people to feel like they do not know what to do. Information and advice can help people to have a better understanding of their situation, which allows them to deal with it more successfully. Information and advice help them know where to go for help, the choices than are available to them and how to make healthy choices.			
	Examples include illnesses such as diabetes and injuries and accidents such as car accidents.	Practical Help	 Financial help – an individual may need money to help them adapt to a life change i.e. money to pay for a stair lift if their mobility has been effected. Childcare – an individual may need support looking after their children i.e. a lone parent after a divorce that needs to go to work. 			
Relationship Changes	Relationship changes could be new relationships such as the		 Transport – an individual may need support with transport if they have mobility problems i.e. a car could be adapted to support a person who has had an accident and can no longer walk. 			
Ŭ	birth of a sibling, a new friendship or romantic relationship. Relationship	friendship or romantic Support an individual experiences after and expected or unexpected life event. Info		Informal support is the support an individual receives from partners, family and friends. It is usually the first form of support an individual experiences after and expected or unexpected life event. Informal support can provide reassurance, encouragement, advice, a sense of security, someone to talk through options with and practical help.		
Life	to existing relationships such as divorce.	Professional Support	Formal support may be provided by statutory care services (the state), private care services and charitable organizations. Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and health specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life changes			
Circumstance s	different situations that arise in our life that we must deal with. Examples include redundancy (losing a job), moving house or retirement (finishing work in later adulthood).	Voluntary Support	and emotions, get advice and information or change their lifestyle. Organizations offering voluntary support are charities, community groups and religious groups. At voluntary support services, many staff are volunteers (they work for free), but they also employ qualified people who are paid by donations. Community groups work at a local level to meet the needs of people living in a specific neighbourhood i.e. foodbanks. Religious groups are formed by people who share the same religious or spiritual beliefs but they help all people in need regardless of their beliefs and background i.e. a church run soup kitchen for the homeless.			

Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAB

What	we are l	learning this term:	О.	How do people deal with life events?
N. What are life events?O. How do people deal with life events?D. How is dealing with life suggets			Individual	
r. r s	P. How is dealing with life events supported?		Factors	
N.	N. What are life events?		Adapting	
Life Events			Resilience	
Expec	ted Life		Time	
Events	6		P.	How is dealing with life events supported?
			Types of Support	How this helps individuals deal with life events
Unexpected Life Events			Emotional Support	
Physical Events			Information and Advice	
			Practical Help	
Relationship Changes				
e nang	,		Informal Support	
			Professional Support	
Life Circun s	nstance		Voluntary Support	