## 100% book – Grammar Stream

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."

Swindon Academy The best in everyone<sup>™</sup>

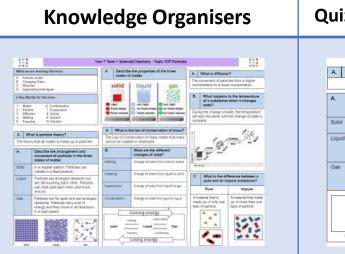








## How to use your 100% book of Knowledge Organisers and Quizzable Organisers

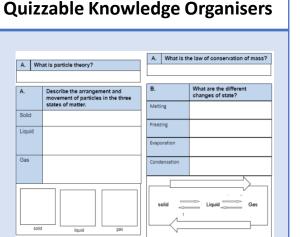


Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

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!



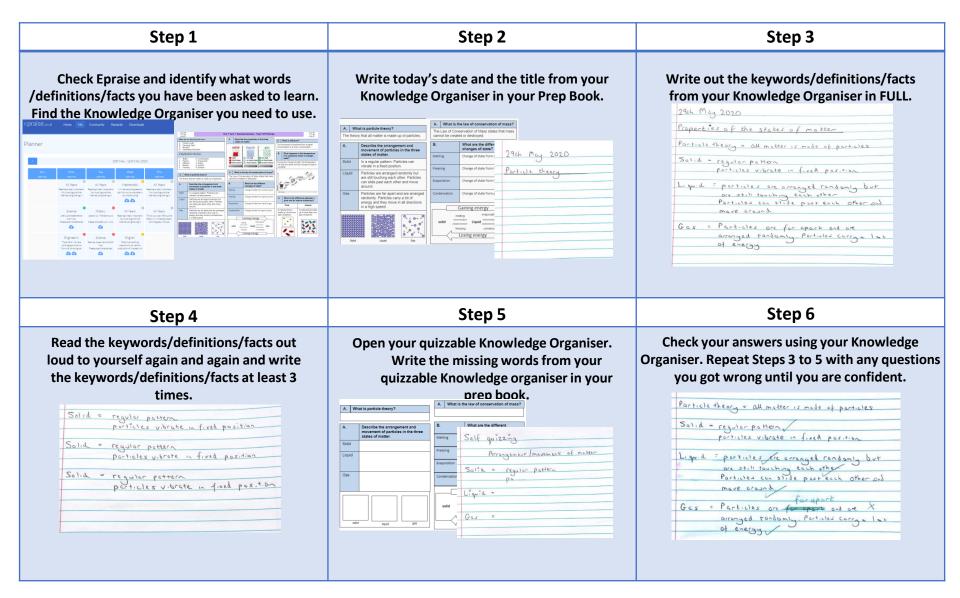
These are designed to help you quiz yourself on the essential Knowledge.

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.

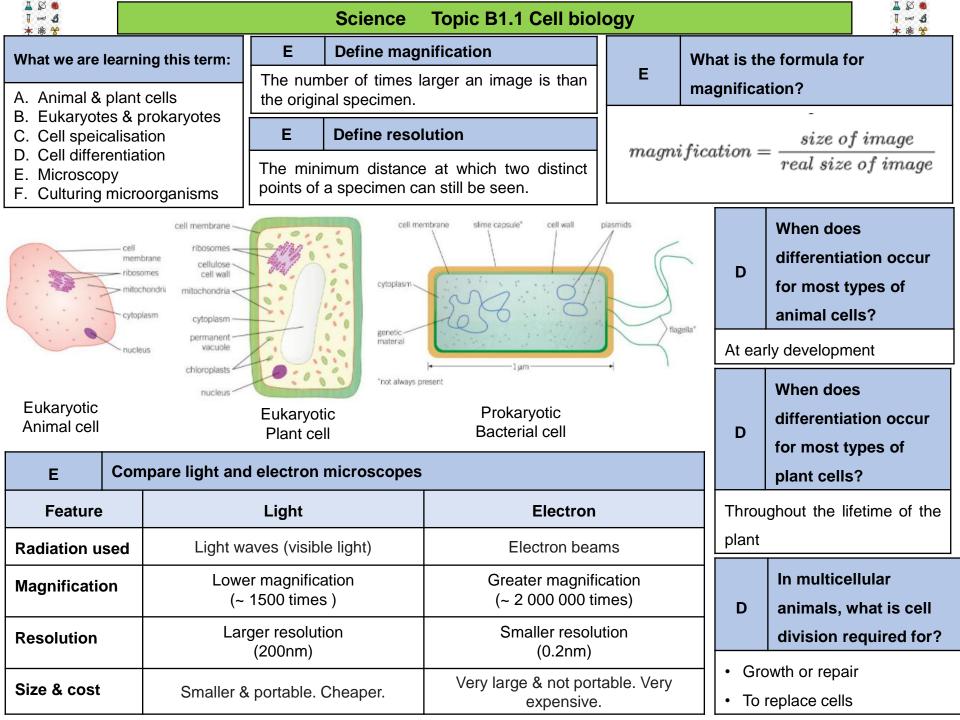
#### **KS4 MACBETH**

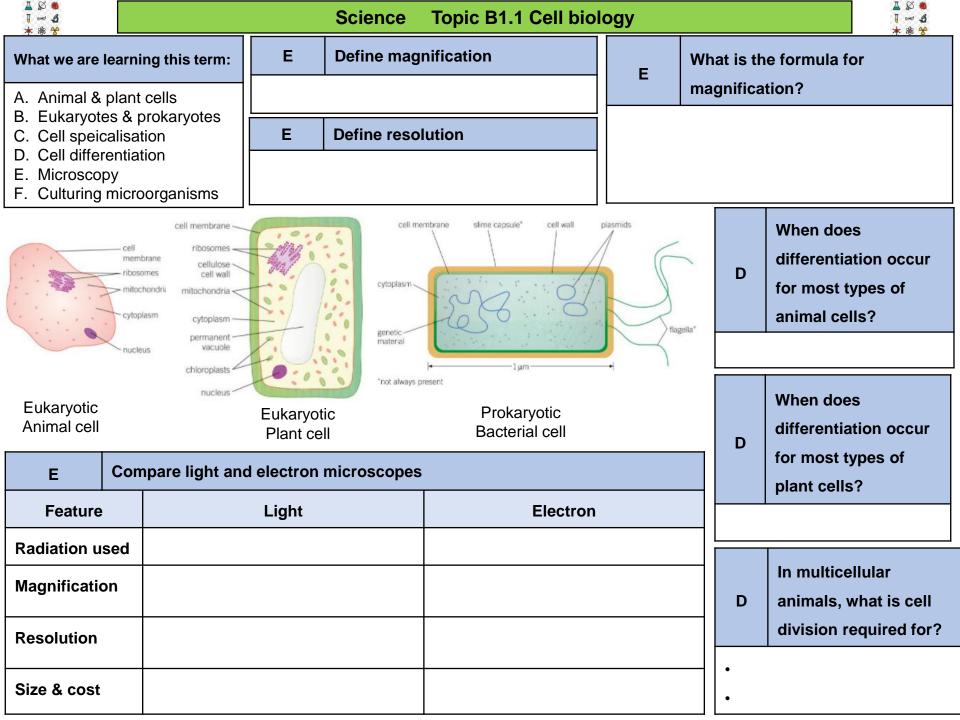
1. Context		2. Key Cha	aracters	4. Key Vocabular	4. Key Vocabulary			
Playwright: Shakespeare (April 23 <sup>rd</sup> 1564-April 23 <sup>rd</sup> 1564-April 23 <sup>rd</sup> 1616)	Macbeth. The plot is partly based on fact. Macbeth was a real 11 <sup>th</sup>		e eponymous protagonist is the tragic hero of this play. He is both d ruthless. He falls from loyal and respected warrior to a paranoid,	Ambition	A desire to achieve something e.g. Macbeth and kingship			
Dates: written around 1606	Century king who reigned Scotland from 1040-1057. Shakespeare's	tyrannical ki	ng, before dying in battle in Act V.	Hubris	Having excessive pride or self-confidence			
Published: in 'the First Folio, 1623 Era: Jacobean	version of the story originates from the Chronicles of Holinshed (a well		th: A strong, ambitious and manipulative woman who exerts Macbeth to pursue him ambition of becoming king by murdering	Tyrant	A ruler who rules through fear and violence			
<u>Genre:</u> Tragedy = A play ending with the suffering and death of the main	known historian). The play was most likely written in 1606 – the year	Duncan. Una and suicide.	ble to deal with the guilt of these actions and is driven to madness	Corrupt	Acting dishonestly OR being in a state of decay			
character. <u>Set:</u> Scotland,	after the Gunpowder Plot of 1605 – and reflects the insecurities of		/ Weird Sisters: Supernatural and manipulative beings who seem	Patriarchal	A society where power is in the hands of men			
<u>Structure:</u> Five Act Play	Jacobean politics.	to be able to	predict the future. They are unearthly and omniscient.	Duplicitous	Lying and being false. Two-faced. Deceitful			
The Divine Right of Kings says that a	King James I of England (and VI of		cbeth's close friend and ally is astute and loyal. Macbeth sees him He is virtuous, admired by audiences, and mistrustful of the	Façade	A false front, mask or illusion. Hiding one's true feelings			
monarch is not subject to earthly authority and that they have the	<b>Scotland)</b> came to the throne in 1603 following the death of Queen	supernatura		Prescient	Having knowledge of things before they happen – the witches			
right to rule directly from the will of God. It implies that only God can	Elizabeth I. The play pays homage to the king's Scottish lineage. The	Duncan: King	g of Scotland at the beginning of the play. He is a virtuous, strong	Nihilistic	The belief that everything is meaningless			
judge an unjust king and that any attempt to depose, dethrone or	witches' prophecy that Banquo will found a line of kings is a clear nod to		ed leader, held up as the model of good kingship by others in the urdered by Macbeth in Act 2.	Courageous	Being very brave			
restrict his powers runs contrary to the will of God and may constitute a	James' family's claim to have descended from the historical	Macduff: A s	soldier who is loyal to Duncan and is suspicious of Macbeth. His	Supernatural	Things that are not a part of the natural world			
sacrilegious act. The action of killing a king is called regicide and is	Banquo. James was convinced about the reality of witchcraft and its great danger to him leading to witch trials.		rdered by Macbeth's soldiers, and he eventually exacts revenge by eth. He was born by caesarian section and therefore was "not of	Fate	Events being already decided and out of a person's control			
considered a terrible crime.	The play is probably not written simply to please James, but certainly	woman borr		Treachery	etraying someone's trust			
	looks at relevant ideas.	man in the p	uncan's son and next in line to the throne. He is described as a good lay.	Regicide	The killing of a king			
Shakespearean Tragedy. Macbeth is one of Shakespeare's tragedies and	The Great Chain of Being was a belief in a strict religious hierarchy				5 Key Terminology Symbols and Devices			
follows specific conventions. The climax must end in a tremendous	(see key vocabulary) of all things which was believed to have been	3. Centra	Themes	5. Key Terminology, Symbols and Devices				
catastrophe involving the death of the main character; the character's	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	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(s) (hamartia) yet the character has something the audience can identify	from God and progresses downward to angels, demons (fallen/renegade angels), stars, moon, kings, princes,		the witches because they san commit their entries itemserves because they want greater power. Their ambition leads them to violence and death.	Soliloquy	When a character is alone on stage and speaks their thoughts aloud to themselves.			
with.	nobles, commoners, wild animals, domesticated animals, trees, other plants, precious stones, precious metals, and other minerals.	Kingship and Tyranny	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 <i>do</i> it <i>then</i> you were a man"			
	akespearean Tragedy		order by killing Duncan. The play subverts the natural order of the world. Macbeth's	Foreshadowing	When a hint or warning is given about a later event.			
A <b>tragic hero</b> who falls <b>Hamartia</b> – from greatness through a flaw of their own character. Hamartia – the tragic hamartia – the tragechamartia – the tragecham		Order and Disorder	actions are based on a supernatural belief in a prophecy. It depicts an anarchic world: Macbeth inverts the order of royal succession; his wife inverts the patriarchal hierarchy; the unnatural world disrupts the natural. The disruption underpins the conflict that is not only external and violent but internal as Macbeth and his wife	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.			
External conflict – his Internal co there are fu	nflict – Supernatural elements requent – Many of	Appearanc	come to terms with what they've done. Characters in the play are often not what they seem. Lady	Symbolism	When something symbolises a set of ideas e.g. "The raven himself is hoarse" – raven symbolic of death, supernatural.			
conflict betweenmoments ofcharacters, and alwaysdoubt or inlead to death.torment.	1 0	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.			

The Big Ideas	Notes	The Methods	Notes
1. Shakespeare uses the play to demonstrate the terrible consequences of disrupting the <b>natural order</b> . His rule is unnatural and brings only disorder and sickness. His death restores balance.		1. Shakespeare <b>uses</b> <b>blood as a metaphor</b> <b>for guilt</b> through the play. As the guilt increases, the volume of blood increases.	
2. Shakespeare uses the play to demonstrate the consequences of engaging with <b>the</b> <b>supernatural.</b>		2. Shakespeare uses <b>apparitions</b> to present the consequences of ungodly behaviour and is ambiguous about whether they are real or imagined.	
3. Shakespeare uses Macbeth's role as a tragic hero to highlight how vulnerable people are to the destructive <b>temptation of power.</b>		3. Shakespeare's characterisation of Macbeth and Lady Macbeth establishes the idea that ungodly deeds do not go unpunished.	

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What we are learn	ning this term:		A What are the names and functions of animal and plant sub-cellular structures?									
A. Animal & pla			Structure				Found in					
<ul><li>B. Eukaryotes &amp; prokaryotes</li><li>C. Cell speicalisation</li></ul>			Nucleus	Nucleus Cor		s the ce	ell & contains	genetic info	rmation	Animal & plant		
D. Cell different E. Microscopy	tiation		Cell membr	ane	Controls	s move	ment in & ou	t of the cell		Animal & plant		
F. Culturing mid	croorganisms		Cell wall		Support	s the c	ell. Made of o	cellulose		Plant		
5 Key Words for this term					Jelly-like	e subst	ance where	chemical rea	ctions take place	Animal & plant		
1. Eukaryotic			Mitochondr	ia	Respira	tion, to	release ene	rgy		Animal & plant		
2. Prokaryotic	C		Chloroplast	t Photosynthesis, to produce glucose				Plant				
<ol> <li>3. Differentiat</li> <li>4. Magnificati</li> </ol>			Vacuole		Filled with cell sap, keeps cell turgid					Plant		
5. Resolution			Ribosome		Protein synthesis Animal & p					Animal & plant		
B Compare	eukaryotic a	nd	prokaryotic c	ells	-	С	C How are these cells specialised?					
Feature	Eukaryotic	Pr	okaryotic			Cell		Animal or plant	Specialised feature	S		
DNA	In nucleus	Sir	ngle loop DNA	& pla	smids	Sper	m cell	Animal	Tail to swim. Pointec acrosome. Lots of m			
Cytoplasm	Yes	Ye	S			Nerv	e cell	Animal	Long. Branched ends (dendrites). Fatty sheath to insulate axon.			
Cell	Cell Yes Yes			Muso	cle cell	Animal	Layers of protein fila contraction. Lots of r					
membrane		165			Root	hair cell	Plant	Large surface area.	Thin walls.			
Cell wall	No	Ye	S			Xylei	m cells	Plant	Continuous. Thicken	ed & woody.		
Size	Larger	Sn	naller			Phlo	em cells	Plant	Companion cells have lots of mitochondria.			

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What we are le	earning this		Α		t are the three the three the three three the three th		es and funct	tions of anin	nal and plant sub-cel	<u>*≉ ≵</u> Iular	
<ul> <li>A. Animal &amp; plant cells</li> <li>B. Eukaryotes &amp; prokaryotes</li> <li>C. Cell speicalisation</li> <li>D. Cell differentiation</li> </ul>			Structure Nucleus					Found in			
E. Microscopy F. Culturing m			Cell membr	ane							
5 Key Words fo	r this term		Cytoplasm								
<ol> <li>Eukaryotic</li> <li>Prokaryotic</li> <li>Differentiation</li> </ol>				Mitochondria Chloroplast							
4. Magnificat	ion		Vacuole								
5. Resolutior	1		Ribosome								
B Compare	e eukaryotic a	nd	prokaryotic o	ells		C How are these cells specialised?					
Feature	Eukaryotic	Pr	okaryotic			Cell		Animal or plant	Specialised features	8	
DNA						Sper	m cell				
Cytoplasm						Nerv	e cell				
Cell						Muso	cle cell				
membrane						Root	hair cell				
Cell wall						Xyler	n cells				
Size						Phlo	em cells				





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## Science Topic C1.1 Atomic Structure



What we are learning this	term:	Α.	What are atoms?					
A. Atoms, elements and co B. Mixtures and separation	า	All substances are made of atoms. An atom is the smallest part of an element that can exist						
<ul><li>C. Development of the ato</li><li>D. Structure of the atom</li></ul>	mic model	What are elements?			What are compounds?			
E. Electronic structure			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?		
<ol> <li>Isotopes</li> <li>Protons</li> </ol>		Bya	chemical symbol.		By the symbols of the atoms that	t formed them		
<ol> <li>Ionisation</li> <li>Aqueous</li> </ol>		Exam	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 more elements or compounds not chemically combined.			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	ure 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 equation	ıs?				
By physical methods:	Filtration	The c	chemical formulae (syr	nbols) of the reactants and p	oducts show what happens in a c	hemical reaction		
Crystallisation	Simple Distillation	CuO	+ $H_2SO_4 \rightarrow CuSO_4$ +	H <sub>2</sub> O				
Fractional Distillation	·	D.	What are subatomi	c particles?	Where are each subatomic pa	articles found?		
	Chromatography	The p	particles that make up	atoms	nucleus containing protons and			
Are new substances made?					x electron			
No new substances are made		Name the 3 subatomic particles			× ( even of the second			
A. What is Conservation Atoms are not created or destro		Proto	Protons, neutrons and electrons					

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## Science Topic C1.1 Atomic Structure

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C.	Develop	ment of the Atomic N	lodel –	How was ou	ur curre	nt atomic m	odel develop	ed?						
Perso	on/Time	Demicritus (400BC) Dalton (1803)		JJ Thomson	า (1898)		Ernest Ruth	Ernest Rutherford (1909) Niels Bohr (1913)				James Chadwick (1932)		
Tiny hard spheres.     Spheres		negative	<ul> <li>Proved t</li> <li>the cents</li> <li>the cents</li> <li>Negative</li> </ul>		<ul> <li>Alpha particle scattering experiment</li> <li>Proved that mass of atoms found in the centre – nucleus</li> <li>Negative electrons surround the positive nucleus</li> </ul>		Electrons are restricted to certain orbits like planets round the sun		Discovered the neutron					
			in a pud	lding)	•			0 00		(				
	ribution to nt model:	Everything is made of	atoms	Negative ele	Negative electrons			ss in the ce electrons	entre sur	rounded	Electrons shells/ort distances	oitals at s	specific	Neutrons found in nucleus along with protons
D. How big are atoms? D					D.		ve know how	many sul	oatomi	c particles	s are in	E.	Which	energy level do
0.1n	m (1 x 10 <sup>-10</sup>	<sup>o</sup> m)				each elen	nent?				ns fill first?			
How	big is the rad	lius of an atom?				<b>12</b>	Mass Number	Number lowest energy				n atom occupy level first		
1/10		e of the atom – 1x10					Atomic	Atomic What is atomic number			How many elec		ectrons does each	
D.		elative mass and on ic particles?	charges	s of the		6	Number					First		Up to 2
Suba partic	atomic cle	Relative Mass	Relat Char							tons – san element		Seco	ond	Up to 8
Proto		1		+1	D.	How can w	ve know wha ve have?	t	D.	What is atomic r		Thir	d	Up to 8
Neutr	ron	1	1	0	Each			borof		an elem	ent?	Elect	Electronic structure of Sodium:	
Electron 1/2000 -1		proto		a unique num			iverage va s account				$\langle \rangle$			
D. What is the overall charge of an atom?			Wha	t is an isotop	pe?		abur	ndance of an			k Na	2,8,1		
	Atoms have no charge No of protons = no of electrons				same		bstance with the the stance with the stance with the standard sta Standard standard stan		element 2,8,			2,0,1		

Image: Science Topic C1.1 Atomic Structure         Image: Science Topic C1.1 Atomic Structure									
What we are learning this term:	A. What are atoms?								
<ul> <li>A. Atoms, elements and compounds</li> <li>B. Mixtures and separation</li> <li>C. Development of the atomic model</li> <li>D. Structure of the atom</li> <li>E. Electronic structure</li> </ul>	What are elements?	What are compounds?							
6 Key Words for this term	How are elements represented?	How are compounds represented?							
<ol> <li>Isotopes</li> <li>Protons</li> <li>Ionisation</li> <li>Aqueous</li> <li>Residue</li> </ol>	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

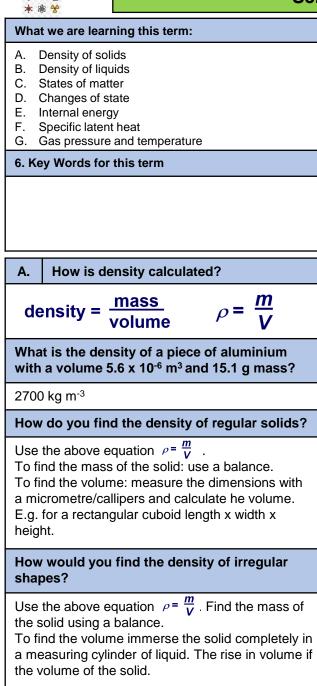
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C.	Develop	nent of the Atomic N	lodel – How was o	our curre	nt atomic mo	del develope	ed?					
Person/Time         Demicritus (400BC)         JJ Thomso           Dalton (1803)         Dalton (1803)         Dalton (1803)			on (1898)		Ernest Rutherford (1909) Niels Bo			Niels Bol	hr (1913)	James Chadwick (1932)		
ldeas/	model											
Diagram				•			(					
	bution to nt model:											
D.	How big are	e atoms?		D.	How do we each eleme	know how ant?	nany subat	omic parti	cles are in		n energy level do ons fill first?	
How b	ig is the rad	ius of an atom?			12-	Mass Number	What is M	ass numb	er?			
						Atomic	nic What is atomic number?			How many electrons does each orbital hold?		
D.		elative mass and c ic particles?	charges of the		0 -	Number				First		
Suba partic	tomic	Relative Mass	Relative Charge							Second		
Proto			Charge	D.	How can we				t is relative nic mass of	Third		
Neutr					element we	nave?			lement?	Electronic str	ucture of Sodium:	
Electr				11								
D.	What is the	overall charge of an a	tom?	What	is an isotope	?						



## Science Topic P2.6 Particles and matter





В.	How do you find the density of liquids?									
Use the above equation To find the mass: find th $\rho = \frac{m}{V}$ ; of an empty measuring cylinder, then add some of the liquid. Find the mass of the cylinder with the liquid in and subtract the cylinder mass. To find the volume: read the volume directly										
	ere was 1 litre of e ds, would they all ?			-						
	Liquid	Dei	nsity in g/cm³							
	water		1.00							
	alcohol		0.79							
-	mercury		13.55							
	sea water		1.03							
	olive oil		0.92							
No because they have different densities, so the higher the density the higher the mass. If there was 500 ml of water and 500 ml of mercury, which on would have a higher mass and why?										
Mercury as it has a higher density.										
			-							
C.	What are the changes in state	?	Why is ice les dense than wa							

Gas

Solidifving

Melting

iquid

Solid

The water molecules

align themselves in a regular latte in ice (no

random like water).

The molecules are

more spread out in ice

than in water, so less

dense. So, ice floats.

solid	liquid	gas
What are the pro	operties of a solid?	,
A high density, th	e particles are pack	ed verv close

What do the particles look like in

solids, liquids and gases?

C.

A high density, the particles are packed very closely together.

Cannot be compressed because there is very little empty space between particles.

A fixed shape because the particles are held tightly together by strong bonds.

Cannot diffuse because the particles are not able to move but can vibrate.

#### What are the properties of a liquid?

A fairly high density because the particles are close together. Cannot be compressed because there is very little

empty space between particles. Takes the shape of its container because the

particles can move

Can diffuse because the particles are able to change places.

#### What are the properties of gas?

A low density because the particles are spaced far apart. Can be compressed because there is space between particles. No fixed shape because the particles move about rapidly in all directions. Can diffuse because the particles are able to move
What does the particle model tell us?
All substances consist of particles, either tightly packed/spaced. They can move around (have kinetic energy). Kinetic energy increases with temperature. They can be strongly or weakly attracted.

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What we are lear	ning this term:	В.	How do you find	the density of liquids?	C.	What do the particles solids, liquids and ga	
<ul> <li>A. Density of sol</li> <li>B. Density of liqu</li> <li>C. States of math</li> <li>D. Changes of st</li> <li>E. Internal energ</li> <li>F. Specific laten</li> <li>G. Gas pressure</li> </ul>	uids tter state gy it heat e and temperature			ch of the following ave the same mass and		olid liquid	gas
			Liquid	Density in g/cm <sup>3</sup>			
			water	1.00			
A. How is de	ensity calculated?	-	alcohol	0.79			
		-	mercury	13.55			
			sea water	1.03			
	nsity of a piece of aluminium		olive oil	0.92	What a	are the properties of a liqui	d?
	5.6 x 10 <sup>-6</sup> m <sup>3</sup> and 15.1 g mass? Ind the density of regular solids?	merc	ere was 500 ml of w cury, which on wou why?	ater and 500 ml of Id have a higher mass			
					What a	are the properties of gas?	
How would you shapes?	a find the density of irregular	C. Solid	What are the changes in state?		What	does the particle model tell	us?



C.

qas?

temperature (°C)

solid?

temperature (°C)

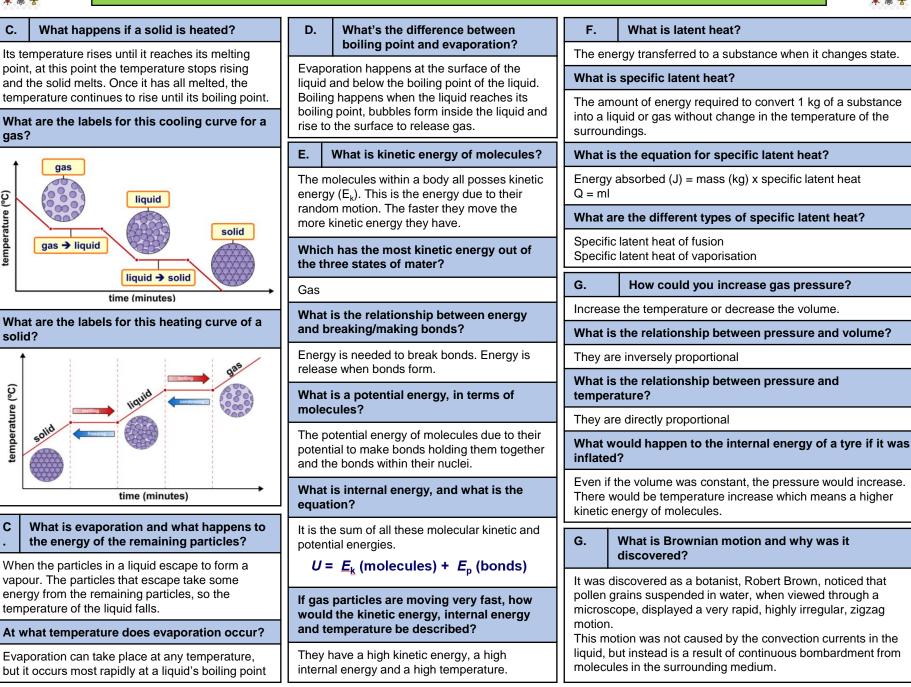
С

gas

gas → liquid

#### **Science Topic P2.6 Particles and matter**

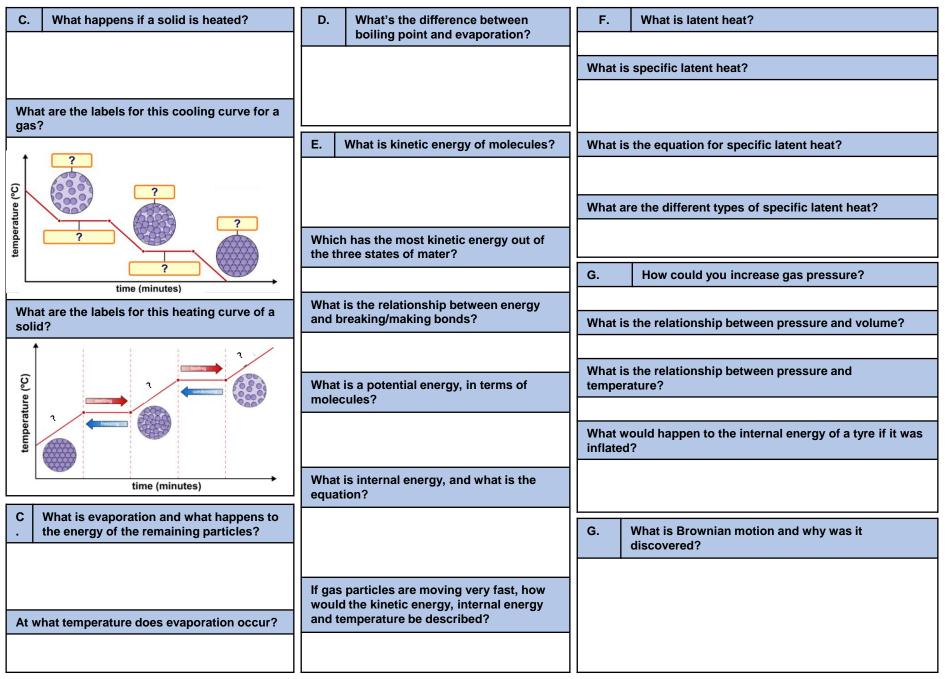




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## Science Topic P2.6 Particles and matter





## GCSE Geography. Paper 1.

## Physical landscapes. 3. Coasts

1. The UK's diverse		1
landsc	apes	1. Inter
Term	Definition	185
Relief	Shape of the land.	All The
Upland	Land over 200m.	and and
areas	Highlands. Steep.	1991 355
Lowland	Land below 100m.	and and a
areas	Flat or rolling hills	and the second

2. Waves			
Term	Definition		
Swash 🗡	Movement of the water UP the beach in the direction of the prevailing wind.		
Backwash 🛔	Movement of water DOWN the beach at right angles (90°) due to gravity.		
Constructive waves	Build up the beach. Strong swash. Weak backwash. Low height, long wave length. Low frequency.		
Destructive waves	Erode the coast. Weak swash. Strong backwash. Tall height, short wave length. High frequency.		
Beach Direction of longshore drift			
~	BACKWASH		

Sea

Direction of

prevailing wind

## 3. Processes

Sub-aerial processes (above the sea)			
	Weathering		
Wearing av	Wearing away of rocks in situ. Material not removed.		
Mechanical	The breaking down of rock without		
weathering	changing its composition. Freeze thaw.		
Chemical	The breaking down of rock caused by		
weathering chemicals. (e.g. weak acid rain).			
Mass movement			

# The downhill movement of material under the force of gravity. Sume Rockfall Free fall of rocks under force of gravity. Sliding Material collapsing in a straight line. Slumping Downward rotation of sections of cliff along a slip plane. Worse when saturated.

Marine processes		
	Erosion	
The wear	ing away and removal of material by a	
mov	ing force such as a breaking wave.	
Hydraulic	The sheer force of the water	
	compressing air into cracks causes bits	
power	to break off.	
Abrasion	Sediment scraping against the cliff (like	
ADIASION	sandpaper) removing small pieces.	
Attrition	The 'smashing' of sediment against each	
Attrition	other to become more rounded.	
Solution	Chemical erosion caused by the	
Solution	dissolving of rocks by sea water.	
	Deposition	
Dropping	Occurs when there is a loss of energy.	
of material	e.g Sheltered bays, when the wind drops.	
Transportation		
Longshore	Zig zag movement of sediment along the	
drift	coastline.	

## 4. Erosional landforms

	Headlands and bays	
Step 1	Discordant coastlines have H S	
	alternating bands of more	
	resistant (chalk) and less	
	resistant rock (clay). Headland Headland	
Step 2	The less resistant rock is eroded faster	
	through abrasion, creating bays.	
Step 3	The more resistant rock erodes slower and is	
	left jutting out to sea forming a headland.	
	Wave cut platforms	
Step 1	Waves erode cliff base between high+ low tide	
Step 2	Abrasion create a wave cut notch which	
	enlarges over time.	
Step 3	The rock above the notch is unsupported so	
	will collapse due to gravity (mass movement).	
Step 4	Cliff retreats, leaving a wave cut platform	
(the un-eroded original cliff left behind).		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	the for the for	
	Course and starts	
	Cave, arch, stack	
Step 1	Hydraulic power enlarges cracks in headland	
Step 2	Over time they turn into a cave.	
Step 3	Back of cave is deepened by abrasion until it	
	erodes through the headland > arch.	
Step 4	Weathering and erosion wear away at the	
	arch until it eventually collapses (gravity).	

Step 5 A stack is formed.



Example of a UK coastline. Dorset coastline.		
Headlands and bays	Swanage Bay, Durlston Head	
Wave cut platform	Kimmeridge	
Arch	Durdle Door (concordant)	
Stack	Old Harry	

## GCSE Geography. Paper 1.

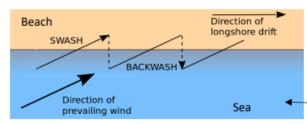
## Physical landscapes. 3. Coasts

1. The UK's diverse		1
landsc	apes	13 and
Term	Definition	155
Relief		20 Th
Upland		Al and the
areas		1991 355
Lowland		the second
areas		A A A A A A A A A A A A A A A A A A A

2. Waves	
Term	Definition
Swash 🗡	
Backwash 🖌	
Constructive waves	
Destructive waves	







## 3. Processes

Sub-aerial processes (above the sea)		
	Weathering	
Mechanical weathering		
Chemical weathering		
	Mass movement	
	FALL SLIDE SLUWP	
Rockfall		
Sliding		
Slumping		

 Marine processes

 Erosion

 Hydraulic power

 Abrasion

 Abrasion

 Attrition

 Solution

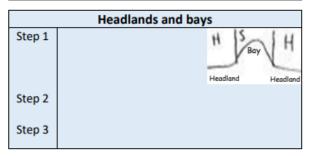
 Deposition

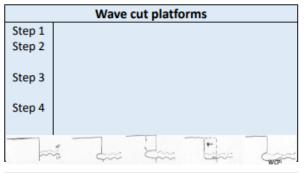
 Dropping of material

 Transportation

 Longshore drift

## 4. Erosional landforms





Cave, arch, stack				
Step 1				
Step 2				
Step 3				
Step 4				
Step 5				
t	I man man manuel			

Example of a UK o	oastline.	Dorset coastline.

## 5. Depositional landforms

Beaches Swanage				
Step 1	Beaches form when deposition occurs.			
Step 2	There needs to be a source of sediment			
	nearby like soft cliffs.			
Step 3	Constructive waves deposit material in			
	Beaches form when <b>deposition</b> occurs. There needs to be a source of sediment nearby like soft cliffs. Constructive waves <b>deposit</b> material in sheltered areas like bays.			

Sand dunes Studland				
Step 1	Wind blows sand up the beach (saltation).			
Step 2	Wind blows sand up the beach (saltation). Obstacles such as seaweed cause the wind			
	speed to decrease resulting in <b>deposition</b> . Over time sand dunes build up and are colonised by marram and lyme grass.			
Step 3	Over time sand dunes build up and are			
	colonised by marram and lyme grass.			
Step 4	This vegetation stabilises the sand dunes.			

Spits Sandbanks					
Step 1	Longshore drift transports sediment along				
	Longshore drift transports sediment along the coast in the direction of the prevailing				
	wind (swash and backwash).				
Step 2	Where the coastline changes direction				
Step 3	Sediment is deposited in calm weather out				
	to sea.				
Step 4	Can form a hooked end and Change in				
	a salt marsh behind the spit				
	where it is sheltered.				
-	· · · · · · · · · · · · · · · · · · ·				

	Bar	( )
Step 1	When a spit joins two headlands.	Lagoon
Step 2	A lagoon forms behind the bar.	- 50.r

## 6. Coastal management

Hard engineering			
	Man made structures built to co	ntrol the sea. Reduces flooding	and erosion.
Strategy	Explanation	Costs	Benefits
Sea walls	A hard wall made out of concrete	Expensive (£2000 per/m).	Prevents erosion / flooding.
Sed Walls	that reflects waves back out to sea	Life span 75 years.	Often protects tourist resorts.
Deal array	Boulders piled up along the coast.	Boulders can be moved by	Gaps allow water through,
Rock armour	These erode rather than the coast.	waves and need replacing.	reducing wave energy. Cheap
Cabiana	Wire cages filled with rocks at the	Ugly to look at. £100 per/m	Cheap and easy to build.
Gabions	base of cliffs. Absorb wave energy.	Metal corrodes over time.	Reduce erosion.
	Wooden fences at right angles to	Starve beaches further along	Stops longshore drift
Groynes	the coast, preventing sand moving	the coast = more erosion	removing beaches.
	by longshore drift = wider beach.	there. Life span only 25 years	Fairly cheap.

	Soft engineering						
_	Schemes set up using a natural approach to managing the coast.						
	Strategy	Explanation	Costs	Benefits			
	Beach	Sand and shingle from elsewhere	Needs redoing every 5 years.	Blends with existing beach.			
		is added to beaches. Wider	Sand has to be brought from	Larger beaches = tourists.			
	nourishment	beaches stop erosion and flooding	elsewhere. Expensive.				
	Reprofiling	Sediment is redistributed from the lower part to the upper part of the beach. Increases gradient.	Only works if wave energy is low. Needs to be redone lots.	Cheap and simple. Reduces energy of the waves.			
	Dune	Creating or restoring sand dunes	Protects only a small area.	Sand dunes create a barrier			
	regeneration	by nourishment or planting	Areas zoned off from public	between the sea and land.			
J	regeneration	marram grass to stabilise the sand	which is unpopular.	Stabilisation is cheap.			
٦							
	Managed	Remove current defences, allow	Land is lost = conflict (farmers)	Cheap and easy.			
-	retreat	sea to flood the land behind. Over	Salt water can negatively	Doesn't need maintenance.			
-	Coastal realignment	time land becomes a marshland.	impact existing ecosystems.	New habitats created.			

## 7. An example of a coastal management scheme

What?	Reasons for management	Management strategy	Effects and conflicts
Bournemouth	Coastline would erode at a metre a year.	3 phases costing £50 million.	✓ Beaches = More tourists = 9000 jobs
Beach Management Scheme.	Beach important for tourism (£413million).	HARD: Replaced or added 53 groynes.	×Barton on Sea at risk from erosion.
Aim: Hold the line and protect tourism.	3114 homes at risk from collapsing cliffs.	SOFT: 3 lots of replenishment, every 5 yrs	★Conflict: locals vs construction.

## GCSE Geography. Paper 1.

## Physical landscapes. 3. Coasts

5. Depositional landforms		6. Coastal	management			
	Beaches Swanage		Hard engineering			
Step 1				ontrol the sea. Reduces flooding		
Step 2		Strategy	Explanation	Costs	Benefits	
Step 3		Sea walls				
		Rock armour				
Stop 1	Sand dunes Studland	Gabions				
Step 1						
Step 2		Groynes				
Step 3						
Step 4				ft engineering		
				atural approach to managing the		
	Spits Sandbanks	Strategy	Explanation	Costs	Benefits	
Step 1		Beach nourishment				
Step 2						
Step 2 Step 3		Reprofiling				
Step 5						
Step 4	change in direction s spit	Dune regeneration				
	Bar	Managed				
Step 1	lagoon	retreat				
Step 2	Bar	Coastal realignment				

## 7. An example of a coastal management scheme

What?	Reasons for management	Management strategy	Effects and conflicts

## Year 10 Term 6 History Knowledge Organiser. Topic = Nazi Dictatorship, 1933-39

What we are learning this term:			В.	W	hat was t	he Night of the Long Knives?
<ul> <li>A. Why was Hitler able to increase his control over Germany from 1933?</li> <li>B. What was the Night of the Long Knives?</li> <li>C. How did Hitler create a Nazi police state?</li> <li>D. How did Hitler control the church and the</li> </ul>			Roh The SA By 1			as the leader of the SA and also a threat to Hitler. The men in the SA were loyal to him and not to Hitler and so disagreed with some of Hitler's policies
						By 1933 there were 3 million members in the SA, which meant that there were more men in this group than in the SS which was not good for Hitler if they challenged him
people of G					-	and Himmler were the leaders of the SS and they did not like Rohm and the power that the SA had so they to get rid of this group
Α.	Why was Hitler able to increase		Night of the Long Knives			hight of the 30 <sup>th</sup> June, Hitler arranged a meeting with Rohm and other officers of the SA. When they arrived arrested, imprisoned and shot
	control over Germany after 193	3?	C. He	C. How did the Nazis create a police state in Germany?		s create a police state in Germany?
Reichstag Fire	bichstag Fire On the 27 <sup>th</sup> February 1933, the Reichstag building was set on fire and was completely destroyed		2. The SS 3. The SI 4. Gestaj they w	<ol> <li>The SS – This group was the Nazi's own private police who were loyal to Hitler. They helped to run the concentration camps</li> <li>The SD – This group kept a record of anyone who was against the Nazis</li> </ol>		
Van der Lubbe Dutch communist was found at the scene of the fire and was arrested. He confessed and executed for the crime		l. He	usually 6. Conce	<ol> <li>Law courts – Hitler controlled the law courts by making sure that people who were tried there did not get a fair trial and were usually sent to prison if they were against the Nazis</li> <li>Concentration camps – This is a place where people were held as prisoners for political reasons. People sent there were ges such as Jews and communists</li> </ol>		f they were against the Nazis – This is a place where people were held as prisoners for political reasons. People sent there were groups
Communists	The Nazis blamed the communist		D.	D. How did the Nazis control the church and the people?		
	the fire and used this as a chance arrest 4,000 communists (the ene		Reich Churo	h Church This was a protestant church in German that was set up by those who worked for and supported the N helped Hitler control the Protestant church		as a protestant church in German that was set up by those who worked for and supported the Nazis which Hitler control the Protestant church
Enabling Act	Hitler used the Reichstag fire as a opportunity to take more control o	f		Hitler signed a concordat (agreement) with the Pope in 1933. He promised that Catholics would have freedor religion if they did not get involved with politics. However, Hitler went against the agreement as he did not tru Catholics		if they did not get involved with politics. However, Hitler went against the agreement as he did not trust
	Germany by passing the Enabling This meant that he could pass law without the Reichstag		Propaganda		This means to create ideas and opinions in people about certain groups. The Nazis used propaganda to make people hate the Jews and support the Nazis	
			Censorship	Censorship This means to hide information from people to create opinions and thoughts about certain group censored the information people heard in the news		eans to hide information from people to create opinions and thoughts about certain groups. The Nazis ed the information people heard in the news
Trade Unions	Hitler saw the trade unions as a threat		Media		The Na	zis controlled the media such as newspapers and radio stations by telling them what to write and say
	as there could be communists among the working men who could challenge the government so he banned them	enge	Rallies	Rallies Rallies were a good form of save Germany		were a good form of propaganda as they were bright and showed that the Nazis were strong enough to ermany
			E.	W	hat oppo	sition was there to the Nazis?
Political Parties	Next Hitler got rid of all other political parties so that the NSDAP were the		Opposition			his means to actively work against something to try and remove it. There was some opposition in Germany gainst the Nazis from certain groups
	only party that people could vote f	for	Opposition from the church			Some members of clergy spoke out against the actions of the Nazis. Martin Niemoller set up the Pastors Emergency League which was a group of protestant pastors who were against the Nazis
Local Government	The last step was to make sure that Hitler had full control of the government which he did by getting rid of local government				re T M	here were a few youth opposition groups, made up of teenagers who did not like the strict control of the lazis. There was the White Rose Group, Edelweiss Pirates and the Swing Youth
			Support for Nazis			Overall the Nazis had a lot of support in Germany due to propaganda, people not wanting to lose their jobs ind people also being scared of the Nazis

## Year 10 Term 6 History Knowledge Organiser. Topic = Nazi Dictatorship, 1933-39

What we are lea	rning this term:		В.	What wa	s the Night of the Long Knives?		
over Germa	itler able to increase his control any from 1933?		Ernst Rohm				
C. How did Hit	he Night of the Long Knives? ler create a Nazi police state? ler control the church and the		The SA				
people of G E. What oppos	ermany? sition was there to the Nazis?		Himmler and Heydrich				
А.	Why was Hitler able to increas		Night of the Long Knives				
	control over Germany after 193	33?	C. How	C. How did the Nazis create a police state in Germany?			
Reichstag Fire			3 4	– This gro – This gro _ – Germ	is is a country where the government controls people's freedom using the police up was the Nazi's own private police who were loyal to Hitler. They helped to run the concentration camps up kept a record of anyone who was against the Nazis any state secret police who were known for their violent actions. People did not know who the Gestapo were as		
Van der Lubbe			6.	– Hitl ent to prisc	<ul> <li>controlled the law courts by making sure that people who were tried there did not get a fair trial and were in if they were against the Nazis</li> <li> – This is a place where people were held as prisoners for political reasons. People sent there were is and communists</li> </ul>		
Communists			D.	How did	the Nazis control the church and the people?		
			Reich Church				
Enabling Act			Concordat				
			Propaganda				
			Censorship				
Trade Unions			Media				
			Rallies				
			E.	What op	position was there to the Nazis?		
Political Parties			Opposition				
			Opposition fror church	n the			
Local Government			Opposition from youth	n the			
			Support for Na	zis			

Keywords		What we are learning in	this unit	C.	Sacraments		
Worship Liturgical worship	Act of religious honour or devotion Service which follows a set pattern	A. Worship B. Prayer C. The Sacraments D. Eucharist E. Baptism F. Pilgrimage	G. Christmas H. Easter I Role of the church J. Mission and evangelism K. Persecution L. Reconciliation	What is it	<ul> <li>A specific rite or practice which is given to Christians as a symbol of God's grace</li> <li>The Catholic Church recognises 7 sacraments: baptism, confession, the Eucharist, confirmation, marriage, holy orders, anointing of the sick</li> <li>More on baptism and eucharist in box D and E</li> </ul>		
Non-liturgical worship	Service which does not follow a fixed or set pattern	A.	Worship	<u> </u>			
Sacrament	Rites and rituals through which the believer receives a special gift of grace	What is it	<ul> <li>A way for Christians to show love a</li> <li>It shows Christians how important</li> <li>They worship in different ways</li> </ul>		iod		
Holy communion	A service of thanks giving where bread and wine are consumed to remember Jesus' death and resurrection	Liturgical worship	<ul> <li>Worship with a set order or pattern</li> <li>E.g. Roman Catholic Mass</li> <li>Often takes place in a Church but c</li> </ul>		2		
Festival	Celebration of Jesus' death and resurrection	Non-liturgical worship	<ul> <li>Tends to be Bible-based</li> <li>Often follows a structure but there</li> <li>May choose a relevant theme for the formation of the structure for the structure for the structure formation of the structu</li></ul>				
Christmas	Celebration of Jesus' birth		Prayer is often in a personal style	-			
Church	The holy people of God, the body of Christ or a building where Christians worship	Informal worship	<ul> <li>Charismatic worship</li> <li>Service has characteristics such as l</li> <li>Can be anywhere, not just the Chure</li> <li>Resembles worship practiced by early</li> </ul>	ch	and prayer but is free-flowing		
Agape	Unconditional, unselfish love	Private worship	Focus on the Holy Spirit     Takes place individually				
Mission	A calling where an		Forms a personal relationship with	God			
	individual or group go out and spread the word of God	В.	Prayer				
Missionary	A person sent on a religious mission to	What is it / Significance of prayer	<ul> <li>A means of communicating wit</li> <li>Purpose is to praise God, confe</li> </ul>				
	promote Christianity in a different country through preaching or charity work	The Lord's Prayer	<ul> <li><i>"Our Father, who art in Heaver</i></li> <li>Gives a model for how to pray</li> <li>Involves adoration of God, conf</li> </ul>				
Alpha course	An example of evangelism – trying to tell others about Christianity		<ul> <li>Asking God for food "give us the</li> </ul>	is day our daily			
Persecution	Hostility or ill-treatment, because of race or	Set prayers	<ul> <li>Written down and said more th</li> <li>Allows collective nature e.g. Log</li> </ul>		ly		
Poverty	religious or political beliefs Restoring of harmony after relationships have broken down	Informal prayer	<ul> <li>Use day-to-day language</li> <li>Often private and focus on refle</li> <li>Pentecostal Church are moved</li> </ul>	ection by the Holy Spirit so speak in tongues			

	Keywords	What we are learning in	this unit	C.	Sacraments
Litu wor Nor	rship Irgical ship n-liturgical	<ul> <li>A. Worship</li> <li>B. Prayer</li> <li>C. The Sacraments</li> <li>D. Eucharist</li> <li>E. Baptism</li> <li>F. Pilgrimage</li> </ul>	G. Christmas H. Easter I Role of the church J. Mission and evangelism K. Persecution L. Reconciliation	What is it	
wor	ship				
Sac	crament	A. What is it	Worship		
Hol con	y nmunion	Liturgical worship			
Fes	stival	Non-liturgical worship			
Chr	ristmas				
Chu	urch	Informal worship			
Aga	аре	Private worship			
Mis	sion				
		В.	Prayer		
Mis	sionary	What is it / Significance of prayer			
		The Lord's Prayer			
Alp	ha course				
	÷	 Set prayers			
Per	secution	Informal prayer			
Pov	verty				

D.	Eucharist/Holy Communion		F.	Pilgrimage				
What is it	<ul> <li>Based on the words and actions of Jesus at the Last Supper</li> <li><i>"Jesus took bread, and when he had given thanks, he broke</i></li> </ul>	What is it		<ul> <li>A visit to a place regard</li> <li>Places of pilgrimage have</li> </ul>		-		
	<ul> <li>it and gave it to his disciples, saying, "Take and eat; this is my body".</li> <li>Commemoration of the sacrifice Jesus made on the cross</li> <li>Deepens faith in Jesus</li> <li>Christians share bread and wine in Church which represents the body and blood of Christ</li> </ul>		ce	<ul> <li>Lets people take time out from their every day lives</li> <li>Offers an opportunity for spiritual growth</li> <li>Encourage them to lead lives that reflect the values</li> <li>Physical or spiritual healing</li> <li>Deepens their faith – meeting people from different</li> </ul>				
Significance	<ul> <li>Some celebrate it weekly</li> <li>Gives them strength to live every day to God's glory</li> </ul>	Lourdes		<ul> <li>Virgin Mary appeared to Bernadette in the 19<sup>th</sup> cent</li> <li>Believed that the spring water can cleanse pilgrims</li> <li>People walk in processions, touch the walls of the g</li> <li>There is a focus on helping and supporting the sick a</li> <li>People feel healed spiritually, if not physically</li> <li>Island off the west coast of Scotland</li> </ul>				
How is it celebrated	<ul><li>Sharing bread and wine during a service at the church</li><li>Some use grape juice instead of wine</li></ul>							
Different interpretations	Different         • Roman Catholics believe in transubstantiation – the bread			<ul> <li>Services and too the west coas</li> <li>Services and toors for p</li> <li>MONASTIC experience</li> <li>Share practical tasks e.g</li> <li>People do not go here f</li> </ul>	oilgr = a g., v	ims simple way of I vashing up, disc	0,	
	<ul> <li>Catholic, Orthodox, Anglican– a way to receive God's grace</li> </ul>		Christmas		1		<b>F</b> actor	
_		G.	Christmas			Н.	Easter	
Ε.	Baptism	What is it	birth of			What is it	• Rei res	
What is it	<ul> <li>Involves the candidate being immersed in water or having water poured on them</li> </ul>			es are decorated with the of the nativity of the second se				

		it
What is it	<ul> <li>Involves the candidate being immersed in water or having water poured on them</li> <li>Symbolises cleansing of sin and initiation into the Church</li> <li>Lots regard it as necessary to being saved</li> <li>Jesus told his disciples to "go and make disciples of all nations, baptising them in the name of the Father, the Son and The Holy Spirit"</li> </ul>	
Significance	<ul> <li>Initiation into the Christian community</li> <li>Cleansed from sin</li> <li>Reborn into eternal life</li> <li>United with Christ as a child of God</li> <li>Receive the gift of the Holy Spirit</li> </ul>	Importa nce In GB
Infant baptism	<ul> <li>When a child/baby is baptised</li> <li>Holy water is poured over their heads x3</li> <li>Washes away original sin, starts life on the right track with God, shows commitment, welcomes to the Church</li> </ul>	today
Believer's baptism	<ul> <li>When an adult is baptised</li> <li>Whole body is immersed in the water</li> <li>Follows Jesus' example, start a new life with God, wash</li> </ul>	

away sin, making their **own** decision to be baptised

<ul> <li>A visit to a place regarded as holy for the believer</li> <li>Places of pilgrimage have a special meaning and can make people feel closer to Go</li> </ul>								
nce	e	y day lives the values of God m different cultures						
;			water can cleans ns, touch the wa ng and supportin	e pilgrims of sin and cure illnesses lls of the grotto, take home Lourdes water g the sick and disabled				
<ul> <li>Island off the west coast of Scotland</li> <li>Services and tours for pilgrims</li> <li>MONASTIC experience = a simple way of living, i.e. like a monk</li> <li>Share practical tasks e.g., washing up, discussions, studying the Bible</li> <li>People do not go here for miracles</li> </ul>								
	Christmas		Н.	Easter				
	birth of	ed to commemorate the Jesus s are decorated with the	What is it	Remembering Jesus' death and resurrection				
scene o • Carols a Jesus' b • Commu		the nativity re sung about the events of	Importanc e	<ul> <li>Remembers the resurrection of Jesus</li> <li>Power of good over evil</li> <li>Reminds Christians of the omnipotence of God</li> <li>Shows Christians there is an afterlife</li> </ul>				
	<ul> <li>Celebrat</li> </ul>	pering the incarnation tes the birth of a saviour – lead to people being saved eir sins	Lent	Time of preparation for Easter – reminds Christians of the temptations of Jesus				
Christians thank God for the			Maundy Thursday	<ul><li>Last Supper</li><li>Observed today by Eucharist</li></ul>				
<ul> <li>incarnation</li> <li>A time of giving and receiving from loved ones</li> <li>Time to remember those in difficult circumstances – should give and support those in need</li> <li>Highlights meaning of Christmas to non-believers</li> </ul>		Good Friday	<ul> <li>Remembering crucifixion of Jesus</li> <li>Observed today by worshiping together</li> </ul>					
		Easter Sunday	<ul> <li>Celebrates Jesus rising from the dead</li> <li>Shows there is an afterlife and death is not the end</li> </ul>					

D.	Eucharist/Holy Communion	I	F.	Pilgrimage			
What is it		What is it					
		Importance	Э				
Significance		Lourdes					
How is it							
celebrated		lona					
Different interpretations							
		G.	Christmas		H.	Easter	
E.	Baptism	What is it			What is it		
What is it					Importanc		
					е		
		Importa					
Significance		nce			Lent		
					Maundy		
Infant baptism		In GB today			Thursday		
mant papusm					Good Friday		
					Easter		
Believer's baptism					Sunday		

I.	Role of the Church: Local community	I.		Role of the	Church: Worldwide	
community	<ul> <li>Churches help in the local community in a number of ways: food banks, day centres for the elderly, helping refugees, food banks, soup kitchens, helping people with taxes</li> <li>Parable of the sheep and the goats: Jesus told his disciples that they should help others</li> </ul>	Working for reconciliation		<ul><li>Christian</li><li>Worldw another</li></ul>	ns need to be reconciled with God but also with one another ns believe that Jesus' death was an act of reconciliation ide church has a role to restore people's relationship with God and with one g for reconciliation is necessary for all Christians	
	<ul> <li><i>"If anyone has material possessions and sees his brother in need but has no pity on him, how can the love of God be in him?"</i></li> <li>Jesus deliberately sought out people in society who needed help</li> </ul>	Persecution		<ul> <li>Jesus to would a</li> <li>Those w</li> </ul>	v and ill-treatment, especially because of race, or political or religious beliefs Id Christians to expect persecution because if they persecuted Jesus, they Ilso persecute his followers vho suffer for their beliefs share in the suffering of Jesus <b>"to know the</b> of his resurrection and participation in his sufferings"	
Food banks	<ul> <li>People volunteer to collect, sort and distribute food</li> <li>People in need are identified and are provided with vouchers to exchange</li> <li>The salvation army - soup kitchens and hostels, give emergency assistance, provide community vegetable gardens</li> </ul>			<ul> <li>Persecu have</li> <li><i>"if one p</i> need to</li> <li>Church b</li> </ul>	tion helps the church grow because people witness the hope that Christians part suffers, every part suffers with it" – all Christians suffer together so be supported supports people by smuggling in Bibles, giving legal and financial support, spiritual support, raise awareness of those being persecuted	
	<ul> <li>Christians who go out on the streets of cities to help care for the needs of young people</li> <li>NOT there to spread Christianity, just to help</li> <li>E.g. St. Vincent de Paul Society – help anybody who needs it – give training to get jobs, run community shops, run hostels, soup kitchens</li> </ul>	CAFOD		<ul> <li>Works t commu</li> <li>Action r</li> <li>Helps to</li> </ul>	agency for Overseas Development (CAFOD) o bring hope and compassion to people of all faiths and in poor nities needs to be taken to remedy the injustice of people suffering o increase access to clean water, education and healthcare, lobbies ers to adopt fait working conditions.	
J.	Mission and evangelism		к	Persecut	ion	
Mission	<ul> <li>Vocation or calling of a religious organisation or individual to g world and spread their faith</li> <li><i>"go and make disciples of all nations teaching them to obey have commanded you"</i></li> <li>Christians have the responsibility, according to the Great Com others of their faith</li> <li>Spreading the word to people in everyday life, organised even becoming missionaries, humanitarian work</li> </ul>	<b>y everything I</b> <mark>mission</mark> , to tell		<ul> <li>Jesus</li> <li>dange</li> <li>Open</li> <li>Support</li> <li>perset</li> <li>govern</li> <li>rooms</li> </ul>	ity and ill-treatment of a group of people told Christians to spread the word of Christianity – may put them in er – "he who endures to the end will be saved" Doors and Christian Freedom Internation help persecuted Christians ort them through trauma, provide advice and support, speak on behalf of cuted Christians to raise awareness, send/smuggle in Bibles, lobby the nments for political power, organise the offer of aid to persecuted, offer s to asylum seekers, ask god to forgive the persecuters he other cheek	
Evangelism	<ul> <li>Spreading the message of Christianity and teachings of Jesus in disciples of all nations</li> <li>Bring reconciliation between people and God</li> <li>Show the love of God through their own actions</li> </ul>		L		Reconciliation	
	Preaching, teaching, performing missions and good works ope foreign lands to spread the word, set up churches and church		works		• Set up initiatives to bring people together, working in prisons to lead people back to God and bring the victim and perpetrator back	
The Alpha Course	<ul> <li>Aims to help church members understand the basics of the Ch</li> <li>Many major Christian organisations use it</li> <li>Take place in church premises but also in homes, universities,</li> </ul>			ciliation	together, leading sermons, asking congregation to forgive each other	
	<ul> <li>prisons and other venues</li> <li>Courses include topics such as relationship and marriage for a programmes for young people</li> </ul>	dults and study		<ul> <li>HY they work</li> <li>Jesus' sacrifice, parable of the forgiving father, "love thy neighbour", he who sees his brother in need and does nothing how can the love of God be in him?</li> </ul>		

I.	Role of the Church: Local community	l.	Role of the Church: Worldwide
Local community		Working for reconciliation	
		Persecution	
Food banks			
Street pastors		CAFOD	

J.	Mission and evangelism	к	Persecu	tion
Mission				
Evangelism		How	L the church	Reconciliation
The Alpha Course		recor WHY	they work conciliation	

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## GCSE Unit 3 SPANISH Knowledge organiser. Topic Free Time Activities

**i** 

What we are learnin	ng this term:	3.1F ¿Qué hao	ces en tu tiempo libre?			Key Ve	rbs_		
	our plans for the weekend	a veces bastante cada	sometimes quite each, every	<u>Salir</u> To go out	<u>Ir</u> To go	<u>Jugar</u> To play		<u>Hacer –</u> to do/make	<u>Tocar</u> <u>To play (ins)</u>
<ul> <li>C. Talking about eating out</li> <li>D. Talking about special occasion meals</li> <li>E. Extending what you can say about sport</li> </ul>		cenar charlar	to have an evening meal to chat	Salgo I go out	Voy I go	Juego I play		Hago I do	Toco I play
F. Talking about sp		el coro descansar	descansar to rest		Vas You go	Juegas You play		Haces You do	Tocas You play
6 Key Words for thi		ei documentai documentary		Sale He/she goes out	Va Juega it s/he goes He/she plays			Hace s/he does	Toca He/she plays
<ol> <li>disfrutar</li> <li>jugar</li> <li>los deportes</li> </ol>	<ul><li>4. campeones</li><li>5. formentar</li><li>6. a selección</li></ul>	el fin de semana genial las noticias	great news	Salimos We go out	Vamos They go	Jugamos We play		Hacemos We do	Tocamos We play
3.1G ¿Que	é 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
	oring o dance	(adj.) poner	to put	3.2G	Comer y Beber		3.		tiempo libre y de los anes
cantartoel cineciide vez en cuandofroentretenido/aerestimulantechjugartoleertolibrefroodiartola películafillpracticartosalirtola tardeaf	o sing inema om time to time,occasionally ntertaining hallenging o play (game, sport) o read ee o hate	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	drink)     la tortilla     omelette     occasionally       la tortilla     toast     desafiante       la tostada     toast     divertido/a       el vaso     glass     emocionante			adable ire libre loors atería anción un paseo vez en cuando asionally afiante irtido/a ocionante 3.3F ¿Qué de	boring pleasant in the open air, drums song to go for a walk	
	o touch, to play(an instrument) o see, watch	el bocadillo la carne la cena	sandwich meat evening meal	el atún el bacalao la barra	tuna cod loaf		can la c	Ipinismo sado/a arrera	rock climbing tired race
3.3G ¿Haces	deporte?	cenar an evening meal	to have supper / to have	el bistec los calamares	steak squid		(co	oncurso ntest)	competition
al aire libreinoutdoorsayudartoel baloncestobael campocofieldla canchacolos debereshola equitaciónhoel estadiosta	ctive the open air, help asketball puntryside, playing purt proceriding adium ride a horse ride a bike	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	onion pork beer mushrooms chopizo chop lamb fillet strawberry prawns chilled toma peas cured ham green beans		dura el e el e el e el e esta gan el ju mai el n	ugador ñana niembro artido	to answer during exercise training to train team skiing this to win player tomorrow member match to try, to test

## GCSE Unit 3 SPANISH Knowledge organiser. Topic Free Time Activities

**iii**i

What we are learning this term:		3.1F ¿Qué hac	es en tu tiempo libre?	Key Verbs					
A. Talking about free B. Talking about your	time r plans for the weekend	a veces bastante		Salir	<u>lr</u>	To play	Hacer – to do/make	Tocar 	
<ul><li>C. Talking about eatin</li><li>D. Talking about specific</li></ul>	ng out cial occasion meals	cada 	to have an evening meal to chat	I go out	Voy	Juego I play	Hago	l play	
E. Extending what yo F. Talking about spor	ou can say about sport rt in the world	descansar	choir	You go out	You go	Juegas 	Haces You do	Tocas You play	
6 Key Words for this t		los dibujos animados el documental		Sale He/she goes out	Va s/he goes	Juega He/she plays	s/he does	He/she plays	
<ol> <li>2. jugar</li> <li>3. los deportes</li> </ol>	<ol> <li>4. campeones</li> <li>5. formentar</li> <li>6. a selección</li> </ol>	las noticias	weekend great	Salimos	They go	Jugamos We play	Hacemos	Tocamos	
3.1G ¿Qué t	e gusta hacer?	nunca ocupado/a policíaco/a		Salen	Van They go	They play	Hacen They do	They play	
aburrido/a bailar			to put in general		Comer y Beber			tiempo libre y de los anes	
to si cine de vez en cuando entretenido/a chal chal leer libre odiar la película salir el teclado	•		always to finish silly, stupid time, occasion omer y Beber eral)	el perrito caliente el pescado el pollo 	dessert, puddi cheese soup to take, to hav vegetables		aburrido/a agradable al aire libre butdoors a batería a canción de vez en cuando boccasionally desafiante divertido/a <b>3.3F ¿Qué de</b> al alpinismo cansado/a a carrera	in the open air, to go for a walk from time to time, exciting exportes harás?	
3.3G ¿Haces de	eporte?	evening meal to have supper / to have an evening meal		los calamares	steak		el concurso contestar	(contest)	
outdoors ayudar el baloncesto field la cancha la equitación el estadio to ric	e open air, htryside, playing ework de a horse de a bike	comer la comida desayunar el huevo el jamón la leche las legumbres la mermelada	breakfast afterwards ice cream butter apple chips, fries	la cebolla 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 el miembro el partido	during exercise training 	

## 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 " <b>Red Tape</b> ".			
Consumer Rights Act 2015	<ul> <li>Goods must be fit for purpose and free from defects.</li> <li>The buyer has the right to get their money back or have their product repaired at the seller's expense.</li> <li>Any issues are to be dealt with by the seller and not the manufacturer.</li> </ul>			
Trade Descriptions Act	<ul> <li>Trader's can not use false or misleading statements.</li> <li>Labels must not be misleading.</li> </ul>			
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.
<b>Equal Pay</b> Organisations must pay workers fairly and can		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.	
<b>Exchange</b> The value of the pound (£) measured by how much foreign currer		
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		

#### Hardware and Software

#### Hardware:

The physical, electrical/mechanical parts of a computer. This consists of internal components such as the CPU and graphics card, and additional hardware which allows the users to communicate with the system through input and output devices, such as a monitor and a keyboard.

Externally attached hardware <u>are</u> known as peripherals.

#### Software:

The programs, data and applications in a computer system. Any parts of a computer system that aren't physical.

Software can be classified as either application or system software.

Application – Programs which perform specific enduser tasks. E.g. web browser, spreadsheet, games. System – Programs which help to run or maintain the computer system.

#### System Software:

#### **Operating Systems -**

Manages processes.

Manages memory.

Manages I/O (input/output) devices.

Manages applications.

Manages security (access levels, user accounts)

Controls hardware components.

Provides a platform for software to run on.

Provides a user interface.

#### Utility Programs -

Programs which help to maintain or manage the computer system. E.g. Disk Defragmenters, Antivirus, Compression, Encryption, Registry Cleaners, Driver Updaters,

#### Translators -

Translate source code from a high-level language or assembly code into machine code (binary). There are three types, Compilers, Interpreters and Assemblers.

Compilers – Does the translation all at once and creates an exe file containing the machine code.

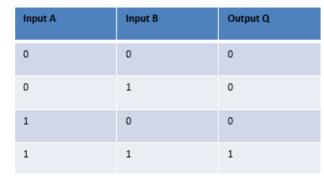
Interpreters – Does the translation line by line. Assembler – Converts assembly code.

#### Boolean Logic Gates

#### AND Gate.

Both inputs need to be true for the output to be true.





#### OR Gate.

Either of the two inputs needs to be true for the output to be true.



Input A	Input B	Output Q
0	0	0
0	1	1
1	0	1
1	1	1





Input A	Output Q
1	0
0	1

## Y10 COMPUTER SCIENCE - TERM 5 & 6 COMPUTER SYSTEMS

#### CPU Components

Control Unit (CU) – fetches, decodes and executes instructions. Sends control signals to the system and peripherals. Moves data around the system.

Arithmetic Logic Unit (ALU) – performs arithmetic and logical operations. Acts as a gateway between primary memory and secondary storage.

Cache – Small amount of high-speed memory to store frequently used data and instructions.

**Clock** – Synchronises all computer's components by sending out regular electrical pulses. The more pulses per second, the more calculations and operations can be performed. This is measured in Hz.

Buses – Collections of parallel wires for high speed internal communication within the CPU.

Address Bus – Carries memory addresses. Data Bus – Carries data between components. Control Bus – Carries control signals.

Registers – Small amounts of high-speed memory within the CPU. Special purpose ones listed below.

Program Counter – Holds the memory address of the next instruction.

Memory Address Register – Holds the address of the current instruction.

Memory Buffer/Data Register – Holds the data that is either being retrieved or stored.

Current Instruction Register – Holds the current instruction which needs to be decoded and executed. Accumulator – Holds the result of calculations from the ALU.

#### Fetch-Decode-Execute Cycle

 The memory address held in the program counter is copied into the MAR.

2. The address in the program counter is then incremented (increased by 1) so it now holds the

address of the next instruction to be fetched. 3. The processor sends a signal along the address bus

to the memory address held in the MAR.

The instruction/data in that memory address is carried by the data bus to the MBR/MDR.

The instruction/data in the MBR/MDR is copied to the CIR.

6. The instruction/data in the CIR is decoded and executed. Results of processing are stored in the ACC.7. The cycle then returns to step one.

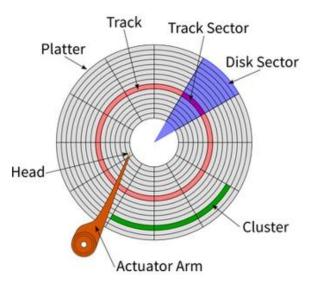
#### Secondary Storage

Secondary Storage is long-term, non-volatile storage. Without secondary storage, all programs and data would be lost when the computer is turned off.

#### Magnetic

Hard disks spin.

Actuator arm moves a read/write head over the disk to access parts of it. The head can detect the magnetisation of the disk and either magnetise (1's) or demagnetise (0's) parts of it.



#### Optical

Optical disk spins and has a spiral track. Laser head is moved over the disk and shines the laser down onto it.

Disk has pits (scatters light 0's) and lands (reflects light 1's).

Writeable disks have photosensitive dye which is burned to represent 1's and 0's.

#### Solid State

A collection of semiconductor chips which can be accessed and written to extremely quickly. No moving parts, so they are more reliable than disks.

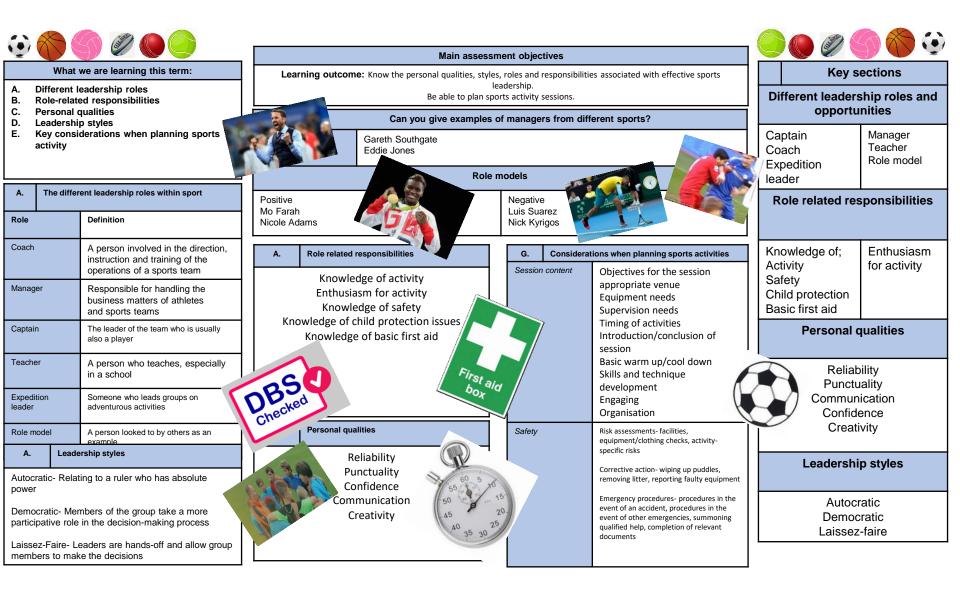
## Macronutrients, fibre and water- Term 6

			Carbohydrate		Key terms
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.		<ul> <li>a called amino acids.</li> <li>b found in protein.</li> <li>b be provided by the o acids).</li> <li>(EAAs) are</li> </ul>		can be divided into three size of the molecule. ose); e).	Dietary reference values: 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 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
Macronutrients Macronutrients provide energy. The macronutrients are: •carbohydrate; •protein; •fat. Macronutrients are measured in grams (g).	isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan and valine. In young children, additional amino acids, e.g. histidine and tyrosine, are sometimes considered to be essential (or 'conditionally essential') because they may be unable to make enough to meet their needs. <b>Recommendations</b> •0.75g/kg bodyweight/day in adults.		dietary energy are starch and sugars. Dietary fibre is also a type of carbohydrate. Starchy carbohydrate is an important source of energy. Starchy foods - we should be choosing wholegrain versions of starchy foods where possible. <b>Recommendations</b> •Total carbohydrate - around 50% of daily food		
<ul> <li>Energy from food</li> <li>Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal).</li> <li>Different macronutrients, and alcohol, provide different amounts of energy.</li> </ul>	Sources: Animal sources: meat; poul dairy food. Plant sources: soya; nuts; s pulses, e.g. beans, lentils; my In young children, additional amino acid tyrosine, are sometimes considered to b essential') because they may be unable to their needs.	eeds; /coprotein. s, e.g. histidine and e essential (or 'conditionally	<ul> <li>energy.</li> <li>Free sugars include all suga sugars naturally present in ho unsweetened fruit juice (&lt;5%</li> <li>Fibre is a term used for plan that are not digested in the su adults).</li> </ul>	oney, syrups and daily food energy). t-based carbohydrates	complementation: Combining different protein types at the same meal to ensure all EAAs are ingested. Reference Intakes: Guidelines for the maximum amount of nutrients consumed.
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. Fibre	mplementation         od contains different amounts and         ns of amino acids.         d vegetarians can get all the         is they need by combining different         es at the same meal. This is known         complementation.         are:         eas;         ooast;         nd pitta bread;         served with rice.         is a type of carbohydrate found in plant foods.         les include wholegrain cereals and cereal products;         ntils; fruit; vegetables; nuts; and, seeds.         helps to:         sk of heart disease, diabetes and some cancers;         control;         s;         tipation;		nergy 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.	luid every day. Igar-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.
<ul> <li>Dietary fibre is a type of carbohydrate found in plant foods</li> <li>Food examples include wholegrain cereals and cereal prod oats; beans; lentils; fruit; vegetables; nuts; and, seeds. Dietary fibre helps to:</li> <li>reduce the risk of heart disease, diabetes and some cancers</li> <li>help weight control;</li> <li>bulk up stools;</li> <li>prevent constipation;</li> <li>improve gut health.</li> </ul>			try; butter; hard cheese; biscuits olive oil; avocados; nuts. ecially sunflower oil; seeds;	FIR	BER

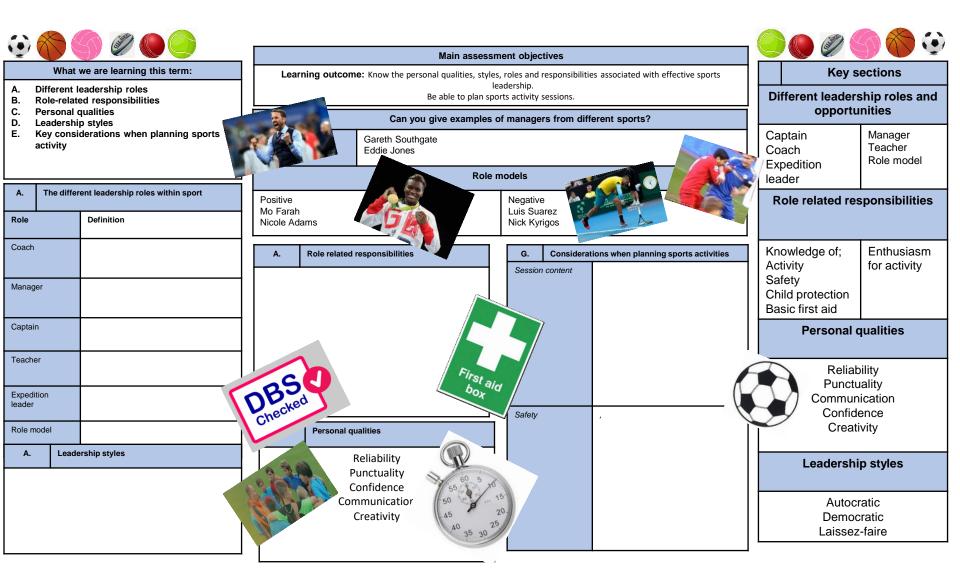
# Macronutrients, fibre and water- Term 6

[]	[		Carbohydrate All types of carbohydrate are		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.	<ul> <li>Protein</li> <li>Made up of building blocks c</li> <li>There are amino aci</li> <li>Eight amino acids have to be diet (called essential amino a The essential amino acids (E isoleucine, leucine, lysine, me</li> </ul>	ids found in protein. e provided by the cids). AAs) are	c, hydrogen and o divided into three main groups the molecule. These three types are: •(e.g. l •	s according to the size of g. glucose); actose); g. sucrose).	Estimated dietary requirements for particular groups of the population. Essential amino acids: 8 of the different amino acids found in proteins from 
Macronutrients         Macronutrients provide energy. The         macronutrients are:         •;         •protein;         •F         Macronutrients are measured in grams (g).	phenylalanine, threonine, tryp In young children, additional a histidine and tyrosine, are sor to be essential (or 'conditional because they may be unable meet their needs. <b>Recommendations</b> •0.75g/kg bodyweight/day in a	otophan and valine. amino acids, e.g. metimes considered Ily essential') to make enough to	The two types main of carboh dietary energy are Dietary fibre is also a type of o Starchy carbohydrate is an im energy. Starchy foods - we should be versions of starchy foods whe <b>Recommendations</b>	and carbohydrate. portant source of choosing wholegrain re possible.	have to be provided by the diet. <b>Macronutrients</b> : Nutrients needed to provide energy and as the building blocks for and maintenance of the body. <b>Protein</b>
<ul> <li>Energy from food</li> <li>Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal).</li> <li>Different macronutrients, and alcohol, provide different amounts of energy.</li> </ul>	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.	eeds; /coprotein. , e.g. histidine and e essential (or 'conditionally	•Total c around 5 •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 sm adults).	s added to foods plus ney, syrups and daily food energy). -based carbohydrates	complementation: Combining different protein types at the same meal to ensure all EAAs are ingested. Reference Intakes: Guidelines for the maximum amount of nutrients consumed.
Protein complementation         Different food contains different amounts and combinations of acids.         Vand vegetarians can get all the amino acids they need by combining different protein types at the same meal. This is known as protein         Examples are:         •rice and peas;         •beans on toast;         •hummus and pitta bread;         •bean chilli served with rice.	when they have one do than one double bond.	of estimates of the e requirements of diffe people in the UK pop recommendations of <b>Reference Intakes</b> maximum amount of saturated fat, sugars day (based on a hea	erent groups of healthy oulation. They are not r goals for individuals. are guidelines for the f energy (calories), fat, and salt consumed in a	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.	luid every day. Igar-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.
<ul> <li>Dietaryis a type of carbohydrate found in plant for</li> <li>Food examples include wcreals and cereal products; oats; beans; lentils; fruit; vegetables; nuts; and, see Dietary fibre helps to:</li> <li>reduce the risk of heart d, diabetes and some cand help weight control;</li> <li>bulk up stools;</li> <li>prevent c;</li> <li>improve gut health.</li> </ul>	•<35% energy, Saturate A high saturated fat inta Sources: Saturated fat: fatty cut biscuits, cakes and pas Monounsaturated fat:	ake is linked with high s of m; skin of tries; ch edible oils especially <b>acids</b> : edible oils esp	blood cholesterol levels. poultry; butter; hard cheese; olive; avocados; nuts. ecially sunflower oil; seeds; able oils and oily fish.	FIR	SER CONTRACTOR

## Year 10 Cambridge National- Leadership- Term 6



## Year 10 Cambridge National- Leadership- Term 6





# Year 10 ENGINEERING Term 6



А.	Physical	& Working Properties	What	we are lear	Forces and	Stressors							
	l properties pre it is used	are the traits a material d.		•	0 1	Metals & Allo Iterative Desi			Stressors Requirements	break	or change sha	to objects, causing them to ape. an withstand different	
Absorb	ency	Ability to soak up moisture, light or heat	В.	Natural & Timbers	Manufactured	C. N	etals & All	oys		force	s.		
Density	,	How solid a material is	Natur		nes from trees.	Metals ar	e extracted	from na	atural ore.	Tens		s a stretching or pulling force.	
				rdwood Softwood		Ferrous Non-		Non-ferrous			E.g. the ropes of a suspension bridge		
Fusibili	ty	Ability of a material to be heated and joined to		Ash Larch		Low-carbo (mild stee		Alun	ninium	Compression		suspension bridge	
		another material when cooled	Beeck	h	Pine		,	Сор	per	Compression		force, e.g. the weight of a building	
Electric		Ability to conduct	Maho	gany	Spruce	High-carbon steel Tin				on its foundation			
Conduc		electricity	Oak			(tool stee	)	Zinc	:	Benc	•	s a combination of tension	
Therma Conduc		Ability to conduct heat	Balsa	alsa faster growing & cheaper to buy.		Contain iron and are magnetic,		Do not contain iron, not magnetic. Do				and compression. It exerts tension on one side and compression on the	
Working	properties	are how a material	Manu	Ifactured Bo	ards	prone to rust. not rust.			0			other, e.g. bending anything	
behaves when it is manipulated.			Manufactured boards are usually made from natural timber waste and				1		Shea		s a cutting force.		
Strengt	h	Ability of a material to	adhes		Alloys are mixtures of two or more metals			Silea		The opposing forces are not directily opposite each other,			
		withstand compression, tension and shear	Mediu	um-density fit	oreboard (MDF)	to improve its properties or aesthetic.							
Hardne	ss	The ability to withstand	Plywo	bod		Brass	Stainles					e.g. cutting paper with scissors.	
		impact with damage	Chipb	oard			Steel	Steel steel			ion	Is a twisting force that	
Toughr	iess	Materials that are hard to break or snap are	D.	Iterative	Design / Identify -> De	esign -> Optimise -> Validate					attempts to rotate two ends		
		tough & can absorb shock	Desig	gn Brief	Statement of how you	are going sol	ve the desi	gn prob	olem			directions, e.g. wringing out a wet cloth.	
Malleak		Being able to bend or	Rese	arch	Research findings and	client feedba	ck help ins	pire ide	eas		1		
wallear	Jiiity	shape easily would	Spec	Specification List of requirements your product has to meet to be successful					uccessful	F.	Product Re	quirements	
		make a material easily malleable	Desig	gn	on of your pro	duct – how	is it go	ing to look?		e are what a pi common require	oduct has to meet / must ements are:		
Ductilit	v	Materials that can be	Proto	otype	Creating a mock-up of	the product t	o check de	sign an	d function		Features	Performance	
		stretched are ductile	Error		Ensuring that the produincorrect way.	uct cannot be	assemble	d or use	ed in an	Та	rget Market	Working Environment	
Elastici	ty	Ability to be stretched and then return to its					e product is successful before it is released			Constraints		Ergonomics	
		original shape	resti		into the competitive ma		000 <del>0</del> 331011		13 10100300		Lifecycle	Aerodynamics	



# Year 10 ENGINEERING Term 6



A. Physical a	& Working Properties	What	we are learn	ing this term:			E.	Forces an	d Str	ressors				
Physical properties has	are the traits a material	A. Physical & Working PropertiesC. Metals & AlloysE. Forces & StressorsB. Natural & Manufactured TimbersD. Iterative DesignF. Product Requirements							Forces apply stress to objects, causing them to break or change shape. Different materials can withstand different			m to		
Absorbency		В.	Natural & M Timbers	Manufactured			etals & Allo	-		forces		can		
Density		Natura	Natural timber comes from trees.			Metals are extracted from natural ore.			Tensi	ion				
		Hardw	vood	Softwood	F	errous	s Non-ferrous							
Fusibility										Com	pression			
Electrical Conductivity				Softwoods are						Bend	ing			
Thermal Conductivity				faster growing & cheaper to buy.		contain iro			contain iron, gnetic. Do					
Working properties	king properties are how a material			ards	р	rone to ru	ıst.	not rust	t.					
			actured board atural timber	ds are usually made waste and	Alloys				Shea	r				
Strength		adhes			Alloys are mixtures of two or more metals to improve its properties or aesthetic.			Chica						
Hardness														
Toughness		D.	It s matheway D		<u> </u>	Question				Torsi	on			
			n Brief	Design / Identify -> Des	sign	-> Optin	nise -> vai	date						
		Resea												
Malleability			fication							F.	Product R	equi	irements	
		Desig	n								e are what a ommon requi		uct has to meet / mu ents are:	st
Ductility		Proto	type											
Elasticity		Error Proofi	ing											
Liastiony		Testin	ıg											



#### 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	als F. Tex	ttiles	Fibre-based			Materials		Co	mmon Uses
A. Modern	Materials			Glass-reinforced plastic (GRP)			Glass fibres and resin		Boa	ats, instrument cases
A modern mater	ial is a material that has been e	ngineered to ha	ve improved properties.	· · · ·						and the second
Туре	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	ternal stimuli and change back	Medium Density Fibreboar			(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 – furniture, furnishings, fir touch screen gloves				hings, firefighter clothing.		
Ferrofluids forme hydraulic susper	ed by magnetic field – nsion pistons	Polymorph –n handles	nodelling and ergonomic	Kevlar – racing tyres and bullet proof vests			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 polythene (HDPE)         Phenol formaldehyde (PF)						,			yi0ii)	
Polypropylene (I	PP)	in (PR)	Silk (an		,		Elastane			
Polyvinyl chlorid	e (PVC)	Urea formalde	ehyde (UF)	Blended – a mixture of fibres that combines and improves propertie			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 lea	arning this term:			D. Composite Materials						
A. Modern Ma B. Smart Mate			hnical Textiles tiles	A composite material is a mixture of two or more materials to enhance properties						
				Fibre-b	based	Materials		Common Uses		
	Materials									
A modern mater	rial is a material that has been er	igineered to hav	ve improved properties.							
Туре	Properties		Common Uses							
Graphene										
				Particl	e-based	Materials		Common Uses		
Metal Foams										
Titanium				Chast	kanad annunasita m					
				Sheet-based composite materials – look back to Term 4 – Manufactured Boards						
B. Smart I	Materials									
Materials that ex	xhibit a physical change in respo	nse to some ext	ternal stimuli and change back							
once that stimul	li has been removed.		Ŭ	E.	Technical Textile	s				
				Modern textiles can be engineered to have numerous properties.						
C. Polyme	ers – 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 be formed synthetically					
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	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 ( 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,		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 language.		
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			
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	98	S = describes how people develop		
Gross motor development ( <b>G)</b>	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 affect memory and mobility.	Deve		friendships and relationships.		
Fine motor development <b>(F)</b>	Refers to the development of small muscles in the body e.g. Fingers	years     Adulthood     affect memory and mobility.       D.     How do humans develop physically (P)?							
Language	Think through and express ideas	0-2		r Development (G) = life head, roll over, sit unaic	had wa	lk bolding o	nto something, walk unaided, climb		
development			stairs, kick a	and throw, walk upstairs, jump.		-	-		
Contentment	An emotional state when people feel happy in their environment, are cared for and well loved		hold betwee	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	<ul> <li>Girls = pube</li> <li>Boys = voic</li> </ul>	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		<ul> <li>fertile.</li> <li>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</li> </ul>						
- Francel	clubs	<ul> <li>46-65</li> <li>People may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down.</li> <li>Women go through the menopause – when menstruation ends and they can no longer become pregnant.</li> </ul>							
Formal relationships	relationships formed with non- family/friends – such as teachers and doctors.	<ul> <li>Men may continue to be fertile throughout life but decrease in sperm production in this life stage.</li> <li>65+ Women's hair becomes thinner, men may lose most of their hair, skin loses elasticity and wrinkles appear, nails</li> </ul>							
Intimate relationships	romantic relationships.		<ul> <li>Women's hair becomes thinner, men may lose most of their hair, skin loses elasticity and wrinkles appear, hails hard and brittle, bones weaken, higher risk of contracting infections disease and illness.</li> <li>Stamina, reaction time, muscle and senses (hearing, sight, taste) all reduce.</li> </ul>						

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

Wha	at we are learn	ing this term:						
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 ( <b>G)</b>		65+ years			Socia Deve (S)		
	motor lopment <b>(F)</b>						$\sim$	
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 <b>9-4</b> 5					
Frien	idships							
			46-65					
Form relati	nal onships							
Intim relati	ate onships		65+					

Wha	nt we are le	earning this term:	F.	How do	o humans develop emotionally (E)?				
		Imans develop intellectually (I)?			Infancy and Early Childhood	Adolescence and adulthood			
	How do hu	umans develop emotionally (E)? umans develop socially (S)? numans develop intellectually (I)?	Bondin	ig and att	ttachment 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			
Infan		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 cared 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.			Infants		ng children are content if they have had enough lean and dry and all other needs are met.	<b><u>Contentment</u></b> When people feel discontented with aspects of their life – for example, relationships or work – their emotions can be negatively affected.			
Early childl		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	Independence Independence is to care for yourself and make your own decisions. Infants are completely dependent on their carer. As children enter early childhood they develop more independence – feed self and get dressed. However, children still need a lot of help from their carer.			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)?				
Adole	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 tend to play alone although they like to be close to their parent carer; they may be aware of other children but 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	ood	<ul> <li>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.</li> <li>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.</li> </ul>				
Early Midd Adult		By these life stages most adults have a good range of general knowledge. They use this knowledge and	Adoles	scence	<ul> <li>People become more independent and build r</li> <li>Social development closely linked to emotions</li> <li>Often strongly influenced by peers – 'peer grown's peers' of the strongly influenced by peers' peer grown's peers' peer grown's peers' pee</li></ul>	).			
,	R.	experience to solve problems that they come across in their personal and work lives.	Early adultho	bod	<ul> <li>Increased independence means greater control of decisions about informal relationships.</li> <li>People may be developing emotional and social ties with partners and their own children.</li> <li>Social life often centred on the family but social skills are required to build and maintain formal relationships.</li> </ul>				
Later adult		During this life stage people continue to learn and develop intellectually, however, their speed of thinking and	Middle adulthc		<ul> <li>Children have often left home, but there are lii</li> <li>Social circles may expand through travel, spe</li> </ul>	kely to still be strong family relationships. nding more time on hobbies or joining new groups.			
however, their speed of thinking and 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				

Wha	What we are learning this term:			F. How do humans develop emotionally (E)? Explain each.						
		Imans develop intellectually (I)? Imans develop emotionally (E)?			Infancy and Early Childhood	Adolescence and adulthood				
G.	How do hu	umans develop socially (S)?	<u>Bondi</u>	ng and At	ttachment	Self-image and Self-esteem				
Ε.	How do h	numans develop intellectually (I)?								
Infar	псу									
			<u>Securi</u>	ty		Security				
F	<b>J-\</b>									
			<u>Conte</u>	ntment		Contentment				
Early child	y Ihood		Indepe	endence		Independence				
1	R									
	<b>T</b>		G. How do humans develop socially (S)?							
	_		Life St	age	Types of relationships and social development					
Ado	escence		Infancy	/						
Į			Early childho	od						
			Crindric	Jou						
	_									
Earl	y and		Adoles	cence						
Midd Adul	lle thood		Early							
	RR		adultho	bod						
Late adul	r thood		Middle adultho							
			Later							
			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.

	I. How do physical factors affect development?							
?		Genetic Disorders		Disease and Illness				
ont?	Physical Development	A person's physical build can affect abilities. Inherited diseases may affe and stamina needed to take part in e	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.				
ent?	Intellectual Development	Some genetically inherited diseases missed schooling, or have a direct ir learning – conditions such as Edwar impact learning.	mpact on	School, college, university, work or training could be missed. Memory and concentration could be affected.				
om their ssed on	Emotional Development	Physical appearance affects how ind themselves (self-image), and how of 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.				
their	Social Development	Physical characteristics or disease n opportunities or confidence in buildir		May cause difficulty in having opportunities to socialize with other and build wider relationships.				
how much Include	and becoming independent.							
cohol or	J. How does lifestyle affect development?							
mething	Lifestyle choices include; diet, exercise, alcohol, smoking, sexual relationships and illegal drugs, appearance.							
ence that			Negative lifestyle choices lead to:         • Being overweight or underweight         • Lack of energy         • Ill health					
nder.	<ul> <li>Good health</li> <li>Emotional set</li> </ul>	ليك	<ul> <li>Negative self-image</li> <li>Sexually transmitted diseases (STDs)</li> <li>Unplanned pregnancy</li> </ul>					
ehaviour.	Our <b>appearance</b> includes: body shape, facial features, hair and nails, personal hygiene and our clothing. Our appearance can affect the way we view ourselves- self-image							
and strives	Positive self-ima			Negative self-image				
ople	<ul> <li>Feel good about yourself.</li> <li>Healthy hair, skin, nails and teeth</li> <li>Big social circle.</li> <li>High self-esteem.</li> <li>High self-confidence.</li> </ul>							
individual								
ind income.		reases.						

What we are learn	ning this term:	I.	How do	physical factors affect developr	nent?			
<ul> <li>H. Key words</li> <li>I. How do physical factors affect development?</li> <li>J. How does lifestyle affect development?</li> <li>K. How do social and cultural factors affect development?</li> <li>L. How do relationships and isolation affect development?</li> <li>M. How do economic factors affect development?</li> </ul>			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		Positive self-image			Γ.			
Social Isolation						•		υ
Material possessions		•   •   •				• •		
Economic						•		

K How do social and cultural factors affect development		What we are learning this term:					
Development can be influenced by the persons <b>culture or</b> religion because it affected their: • Values: how they behave		<ul><li>K. How do social and cultural factors affect development?</li><li>L. How do relationships and isolation affect development?</li><li>M. How do economic factors affect development?</li></ul>					
Lifestyle choices: diet, appearance     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.culture/religion: • Feeing discriminated against by people who do 		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.	
Good self-esteem through being accepted and valued by others	h being isolated because their ted and valued needs like diet, are not catered for.		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	
<b>Community</b> 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 physic development		
<ul> <li>Belonging to a community:</li> <li>Brings sense of belonging essential for emotional development.</li> </ul>	<ul><li>Difficulty in building relationships</li><li>Slow self-image and</li></ul>	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 no enough and have to cut down on travel, shopping, bills therefore it speeds their aging process and lead to health decline.		
<ul> <li>Building and maintaining relationships- social development</li> <li>Feeling of security.</li> <li>Increases self-image and self-confidence</li> </ul>			Low self-esteem, loss of confidence, stress.		ng in good housing 1 open spaces:	Living in a poor housing with cramped and damp	
		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	<ul> <li><u>conditions:</u></li> <li>Have low self-esteem and self-image</li> <li>Be more likely to experience ill health</li> <li>Be lesson likely to</li> </ul>	
Self-confidence Traditionally, men and women had distinctive responsibilities and expectations which for their gender called <b>gender</b> <b>roles</b> . However, nowadays UK equality legislation stops			Isolation can happen because they live alone, are unemployed or retired, are discriminated against or have an illness or a disability.		Warmth	exercise <ul> <li>Anxious and stressed.</li> </ul>	
<ul> <li>people being discriminated against because of their gender.</li> <li>What happens when people face discrimination because of gender: <ul> <li>They might be excluded from a group</li> <li>They may be refused promotion at work</li> <li>They may be expected to carry out a particular role</li> <li>They may be paid less.</li> </ul> </li> </ul>			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

What we are learning this term:		0.	How do people deal with life events?				
<ul><li>N. What are life events?</li><li>O. How do people deal with life events?</li></ul>		Individual	<ul> <li>The effects of life events vary from person to person based on how they deal with their new situation.</li> <li>Some people react to able to react to life events positively, others find it more difficult due to a range of factors.</li> </ul>				
P. How is dealing with life events supported?		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 a	ire me events :	Adapting	Adapt – to adjust to new conditions or circumstances.				
Life Events Life events are expected or unexpected events that car			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	<ul> <li>Resilience – a person's ability to come to terms with, and adapt to, events that happen in life.</li> <li>Resilience is stronger in people who have a positive outlook on life, accept that change happens, has supportive and friends and plans for expected life events.</li> </ul>				
Expected Life Events	Expected life events are life events that are likely to happen. Examples include	Time	<ul> <li>Sometimes people need a long time to adapt to unexpected life events.</li> <li>It can take time for people to move on from and accept difficult changes in their life.</li> </ul>				
	starting primary school aged four and secondary school	Ρ.	How is dealing with life events supported?				
aged 11. Unexpected 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       Physical events are events that make changes to your body, physical health and mobility. Examples include illnesses such as diabetes and injuries and accidents such as car accidents.		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.				
		Practical Help	<ul> <li>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.</li> <li>Childcare – an individual may need support looking after their children i.e. a lone parent after a divorce that needs to go to work.</li> <li>Transport – on individual may need support with transport if they have mability problems i.e. a car could be adapted to</li> </ul>				
Relationship Changes	Relationship changes could be new relationships such as the		<ul> <li>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.</li> </ul>				
enangee	birth of a sibling, a new friendship or romantic relationship. Relationship	Informal Support	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	changes can also be changes to existing relationships such as divorce.	Professional Support	Formal support may be provided by statutory care services (the state), private care services and charitable organization Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and h specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life ch				
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.				

What we are learning this term:			О.	How do people deal with life events?
<ul><li>N. What are life events?</li><li>O. How do people deal with life events?</li><li>P. How is dealing with life events</li></ul>		Individual		
supported?		Factors		
N.	N. What are life events?		Adapting	
Life Ev	vents		Resilience	
Expec	ted Life		Time	
Events	5		P.	How is dealing with life events supported?
			Types of Support	How this helps individuals deal with life events
Unexp Life Ev	ected vents		Emotional Support	
Physic			Information and Advice	
			Practical Help	
Relatio Chang				
e nang	,		Informal Support	
			Professional Support	
Life Circun s	nstance		Voluntary Support	