100% book - Year 10 Mainstream

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



Term 3

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[™]

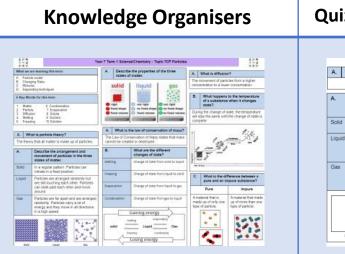








How to use your 100% book of Knowledge Organisers and Quizzable Organisers

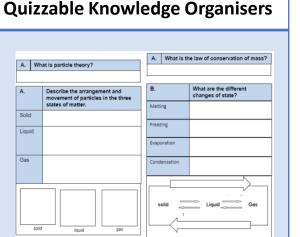


Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

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!



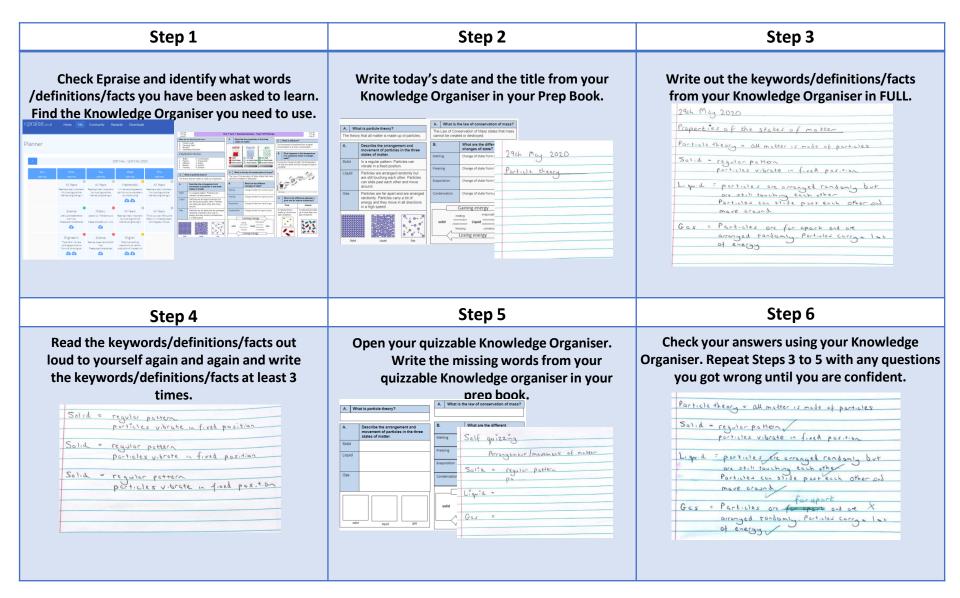
These are designed to help you quiz yourself on the essential Knowledge.

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.

ENGLISH – A Christmas Carol- Traditional

1. Context		2. Key Charac
Writer: Charles Dickens (1812-1870) Dates: First published in 1843 Genre: Allegorical; a ghost story. Era: Victorian Set: Victorian London Structure: The novella is divided into 5 staves (chapters).	 Biography of Dickens Born in Portsmouth in 1812 When Dickens was 12, his father was sent to debtors' prison as he was unable to pay his bills. His mother and youngest siblings were sent with him, whilst Dickens stayed with a family, friend. In order to help his family, Dickens had to leave school and work in a factory sticking labels on bottles. Dickens dedicated his life to writing works that revealed the horrors of life in Victorian London for those living in poverty. 	Ebenezer Scro dismisses the transform, he embodies the the capacity to Bob Cratchit: Victorian pove pity for Scroog Tim, is an emt Fred: Fred jux forgiveness, ro his generosity isolation and s
Christmas: Dickens grew concerned that, due to capitalism, society had	London and inequality: Dickens juxtaposes scenes of middle- class comfort and poverty to emphasise the close proximity and	Marley's Gho chains that dra need. Marley' to deny peopl
lost sight of traditional values (Christian morals, forgiveness, charity). He felt that Christmas was the perfect time to reconnect with these values and used his novella to do this. He also	contrast of the different classes. It highlights the Christian concept of 'love thy neighbour'. The urban setting allows Dickens to exercise his fondness for hyperbole, with the exaggerated extremes of poverty adding to the	The ghosts: Th The Ghost of C The Ghost of C
knew that Christmas would be a popular topic so it would sell well – therefore enabling his message to reach a wider audience.	effect of the 'plight of the poor'.	Belle: The wor crucial in Scroo his life if he ha emotional love a deprivation
		3. Central Theme
The Poor Law, 1834 In order to deter poor people from claiming financial help, the government made claimants live in workhouses: essentially, prisons for the poor. Dickens hated this law. He spent 1843 touring factories and mines in	Malthusian Theory The reformation of The Poor Law was partially informed by the writings of Thomas Malthus. Malthus argued that if living standards increased, population would increase and eventually the number of people would be too great for the food that could be produced. As a result,	Social injustice
England and wished to highlight the situation facing poor people. A Christmas Carol was published soon after – in December 1843.	Malthus argued it was important not to support the poor or improve their standards of living, but to allow them to die if they couldn't support themselves because charity would only prolong their suffering.	Transformation and redemptio
including mediums, ghosts, and supernatural was also heavily in	ciety was fascinated by the supernatural, spiritualism. However, this belief in the nfluenced by the church, with the belief re trapped in purgatory (a place of ners were trapped).	Social responsibility

2. Key Characters	5	4. Key Vocal
	: The protagonist is initially established as an archetypal villain who	Avarice
transform, he fee	dwill and generosity associated with Christmas. After being forced to Is remorse for his avarice and becomes a symbol of Christmas spirit. Scrooge	Salvation
embodies the rele the capacity to re	entless capitalist spirit of the time, but also demonstrates that everyone has form.	Miserly
		Callous
	is Scrooge's downtrodden but loyal employee. His family are a symbol of cheerfulness in adversity, togetherness and Christmas Spirit. Bob shows	Antithesis
pity for Scrooge, a	and provides a contrast to Scrooge's isolation and meannes. His son, Tiny n for noble poverty; he accepts his disability without complaint.	Epiphany
rini, is an emblen	nor noble poverty, ne accepts his disability without companit.	Redemption
	oses the character of Scrooge and epitomises the concept of goodwill and	Benevolence
	ing to be discouraged by his uncle's misery. People speak highly of Fred and contrast to how they speak of Scrooge. Fred shows that Scrooge has chosen	Philanthropi
	vs forgiveness to Scrooge, welcoming him in Stave Five.	Misanthropi
		Penitence
chains that drag h	Marley's ghost is the spiritual representation of Scrooge's potential fate. The im down symbolize the guilt caused by his failure to help people in ost warns Scrooge that he too will experience the same guilt if he continues	Remorse
to deny people he	lp.	Deprivation
-	ihost of Christmas Past is a symbol of childhood, truth and enlightenment.	Despot
	stmas Present represents goodwill, plenty and the festival of Christmas. stmas Yet to Come symbolises a catastrophic future for mankind.	
crucial in Scrooge his life if he had n emotional love di	that Scrooge was engaged to when he was a young man. Belle's role is 's transformation, as the scenes show Scrooge what he might have had in ot been so avaricious. Through the character of Belle, Dickens sets rectly against Scrooge's love of money and suggests that avarice can lead to indness, love and empathy.	Capital 5. Key Termi
3. Central Themes		Stave
iocial injustice	Dickens highlights the unfairness within society through the juxtaposition of the poor and wealthy. Through Scrooge's refusal to give to charity and his exclamation that the poor should be in workhouses or die, Dickens illustrates the selfishness of the higher classes and the injustice of wealth distribution in Victorian society. The children, Ignorance and Want,	Intrusive Narrator
	personify the dangerous consequences of allowing poverty to continue.	Circular str
Fransformation	By establishing Scrooge as an archetypical villain, Dickens is able to emphasise the idea that everyone is capable of transformation and	Allegory
and redemption	redemption. From starting as a greedy, avaricious miser, Scrooge is able to reflect upon his actions and to understand that he must live his life helping others to avoid Marley's fate.	Allegorical figures
	Dickens felt that every individual had a responsibility for those around them. Marley's Ghost conveys the message of the novella when he cries,	Foreshadov
Social	'Mankind was my business' demonstrating that the proper 'business' of life	Didactic

is not about seeking financial reward but having concern for others.

Dickens highlights the importance of trying to make a difference- whether that be large financial contributions (Scrooge), smaller contributions (Fezziwig) or simply showing compassion and kindness to one another.

4. Key Vocabulary	
Avarice	Extreme greed of possessions or money
Salvation	Saving someone from harm or destruction
Miserly	someone who is greedy and does not like spending money
Callous	Mean or cruel
Antithesis	The exact opposite of something
Epiphany	A moment of sudden understanding
Redemption	The act of being saved or freed from sin or error
Benevolence	Kind and helpful towards others
Philanthropic	Showing concern for others by being charitable
Misanthropic	Someone who has a hatred for other people
Penitence	sincere regret for wrong or evil things that you have done
Remorse	a strong feeling of sadness and regret about something wrong that you have done
Deprivation	When someone is unable to have the things they need or want
Despotism	exercising power in a cruel and controlling way
Capitalism	A political system in which property, business, and industry are owned by private individuals and not by the government

5. Key Terminology, Symbols and Devices		
Stave	Chapters in the novella, but we normally associate staves with music, as if the book is a Christmas carol, and each chapter is part of the song. As Christmas carols are repetitive and easy to remember, it links to how Dicken's wishes his message to be remembered.	
Intrusive Narrator	A narrator who interrupts the story to provide a commentary to the reader on some aspect of the story or on a more general topic. In 'A Christmas Carol' the narrator helps to shape our impressions of Scrooge.	
Circular structure	Circular narratives cycle through the story one event at a time to end back where the story originated.	
Allegory	A story that can be interpreted to reveal a hidden meaning, typically a moral or political one.	
Allegorical figures	An allegorical figure is a character that serves two purposes: first, they are an important person in the story in their own right, and, second, they represent abstract meanings or ideas.	
Foreshadowing	Foreshadowing is a literary device in which a writer gives an advance hint of what is to come later in the story.	
Didactic	A type of literature that is written to inform or instruct the reader, especially in moral or political lessons.	
Semantic Field	A set of words that are related in meaning. Dickens frequently uses semantic fields of warmth and coldness that are associated with the characters.	

ENGLISH – A Christmas Carol- Traditional

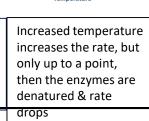
Writer:	Biography of Dickens	2. Key Characters	4. Key Vocabulary
Datas	•	Ebenezer Scrooge:	Avarice
Dates:			Salvation
			Miserly
Genre:	•	Bob Cratchit:	Callous
		Bob Cratchit:	Antithesis
Era:			Epiphany
Set:	•	Fred:	Redemption
Set.		rieu.	Benevolence
Structure:			Philanthropic
			Misanthropic
Christmas:	London and inequality:	Marley's Ghost:	Penitence
			Remorse
		The ghosts:	Deprivation
			Despotism
		Belle:	Capitalism 5. Key Terminology, Symbols and Devices
		3. Central Themes	
The Poor Law, 1834	Malthusian Theory		Stave
		Social injustice	Intrusive Narrator
			Circular structure
		Transformation and redemption	Allegory
			Allegorical figures
The Supernatural:			Foreshado wing
		Social responsibility	Didactic
			Semantic Field

B4 Bioenergetics – Photosynthesis

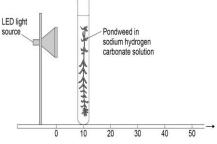
Photosynthesis

Endothermic chemical reaction that takes place in chloroplasts in leaves that produces glucose and oxygen from carbon dioxide and water carbon glucose water oxygen + dioxide light 6CO₂ 6H₂O 6O₂ $C_6H_{12}O_6$ Testing the leaf for starch: What do plants do with the Boil the leaf for 5 minutes to soften glucose? Put into heated ethanol to remove ٠ chlorophyll (turn off Bunsen burner!) Stored as starch ٠ Spread leaf on a white tile ٠ Stored as fats and oils • Add iodine For making cellulose (for cell In the places that contain starch the walls) iodine will turn blue/black For respiration ٠ ٠ In a variegated leaf, only the parts For making amino acids • containing chlorophyll turn blue black (along with nitrates from soil) This shows chlorophyll is essential for ٠ photosynthesis Factors the affect rate of photosynthesis Light Whichever one is in the shortest supply is called Temperature the **limiting factor** – as it is the one limiting the rate of photosynthesis CO₂ concentration Light intensity Carbon dioxide Temperature concentration

Increased light intensity
increases the rate, but
only up to a point, when
CO2 or temperature
become limitingIncreased CO2 conc
increases the rate, but only
up to a point, when light
or temperature become
limiting



RP5 – Effect of light intensity on rate of photosynthesis



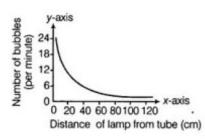
Independent variable: distance between lamp and plant (or light intensity) Dependent variable – number of bubbles per second / rate of photosynthesis Controls – temperature of solution, piece of pondweed

- 1. Measure 10cm length of pondweed and cut with scissors.
- 2. Place into beaker of 250ml NaHCO₃ solution. (this provides CO₂)
- 3. Place lamp 10cm away from pondweed turn on lamp and leave for 2 minutes to adjust to light intensity.
- 4. Count number of bubbles produced in 60 seconds and record in table.
- 5. Repeat steps 3 and 4 for lamp distances of 20cm 50cm at 10cm intervals.
- 6. Keep the temperature of the solution the same (LED light is used to not give off heat)

Inverse Square Law (HT only)

As distance of the lamp doubles the light intensity of the plant quarters l=1

Typical results:



As the <u>distance</u> between the lamp and the pondweed <u>increases</u>, the <u>number of bubbles per</u> <u>minute decreases</u>

B4 Bioenergetics – Photosynthesis

Photosynthesis

- 1. What are the two reactants for photosynthesis?
- 2. What are the two products?
- 3. Where in a cell does this reaction happen?
- 4. Name two uses of glucose produced in photosynthesis.
- 5. What else is needed for plants to produce amino acids?
- 6. What chemical is used to test for starch?
- 7. Which parts of the leaf contain starch in a variegated leaf?



Factors the affect rate of photosynthesis

- 1. What are the three main factors that affect the rate of photosynthesis?
- 2. What is a 'limiting factor'?
- 3. Why does increasing the temperature above a certain point cause the rate to drop?
- 4. Describe the effect of increasing the concentration of $\rm CO_2$ on the rate of photosynthesis

RP5 – Effect of light intensity on rate of photosynthesis

- 1. What is the independent variable in this investigation?
- 2. What needs to be kept the same?
- 3. What is the dependent variable?
- 4. Why is an LED lamp used rather than a regular lamp?
- 5. Why is sodium hydrogen carbonate solution used?
- 6. What is a good range and interval for the distance measurements?
- 7. Why is the plant left for 2 minutes every time the lamp is moved?
- 8. Describe the relationship between distance and the number of bubbles per minute

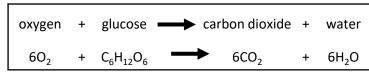
B4 Bioenergetics - Respiration

Respiration

Respiration is a chemical reaction that happens in the mitochondria of cells to release energy from glucose.

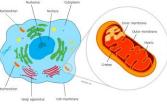
There are two types – Aerobic and Anaerobic.

Aerobic: - with oxygen



Organisms need energy for:

- chemical reactions to build larger molecules
- movement
- keeping warm.



Anaerobic respiration

Respiration without oxygen



In animal cells = glucose → lactic acid

In plant/yeast cells = glucose \rightarrow ethanol + carbon dioxide In yeast, this is fermentation and is used in brewing and baking

	Aerobic	Anaerobic
Oxygen used?	Yes	No
Waste products	CO_2 and H_2O	Lactic acid (animals) Ethanol + CO ₂ (plants/yeast)
Energy released	Lots	Much less

Exercise

During exercise, more energy is needed so that muscles can keep contracting. This means more respiration is needed.

Increased breath depth -Get more oxygen into blood per breath and remove CO₂

Increased breathing rate -Get oxygen into blood quickly.

Increased heart rate -Get more oxygenated blood to muscles.

Heart beats harder - more blood is pumped with every beat.

During intense exercise, there is just not enough oxygen getting into the body. The muscles start to respire anaerobically.

The build up of lactic acid can cause cramp/stitch.

(HT ONLY) When exercise is over, the lactic acid has to be oxidised to CO_2 and H_2O . The amount of oxygen needed to do this is called the oxygen debt

Metabolism

Metabolism is the sum of all the reactions in a cell or the body. The 'metabolic rate' is the rate at which all of these reactions take place. An example of a reaction = making proteins using amino acids from digestion.

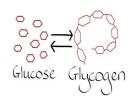


amino acids

protein

More examples:

- glucose → glycogen (in muscles/liver)
- respiration
- protein \rightarrow urea
- glycerol and fatty acids \rightarrow fats



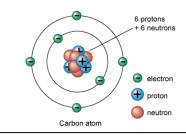


B4 Bioenergetics - Respiration

Respiration 1. What is respiration?	Exercise 1. Describe two changes to breathing during exercise
 Where does respiration take place? What does aerobic mean? 	2. Why does breathing need to change during exercise?
4. Give two uses for the energy released from respiration	3. What happens to heart rate during exercise?
5. What are the two types of respiration?	4. When does anaerobic respiration happen?
6. What are the reactants in respiration?	5. Which chemical builds up in muscles during anaerobic respiration?
7. Write the equation for respiration below	
Anaerobic respiration	Metabolism
1. What is anaerobic respiration?	1. What is the metabolic rate?
2. What is 'fermentation'?	2. Give two examples of metabolic reactions other than respiration
3. What are the waste products of anaerobic respiration in humans?4. What are the waste products of anaerobic respiration in plants and yeast	3. What is glucose stored as in muscles?
cells?	4. What are fats made of?
5. Which type of respiration releases most energy?	

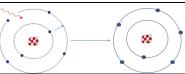
P4 Mainstream Higher - Radioactivity

Atoms



- Atoms are tiny around 10⁻¹⁰m
- There is a positive nucleus made of protons and neutrons
- Electrons orbit in shells or energy levels
- The nucleus is 10,000 x smaller than the atom (4 orders of magnitude) so around 10⁻¹⁴ m

Electrons can move further away or closer to the nucleus



If EM waves (eg UV /light) are **absorbed** electrons can move up energy levels

How the atomic model developed:

The atomic model has developed over time, when new evidence was discovered.



Atoms were first thought to be tiny spheres that could not be divided



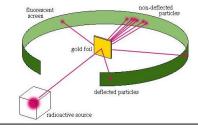
JJ Thomson then discovered the electron Led to the plum pudding model Atoms a cloud of positive charge with electrons randomly scattered



Rutherford discovered the positive charge is very small and in the nucleus This discovery was from the Gold leaf experiment



Chadwick discovered neutrons Bohr discovered the electrons orbit in shells



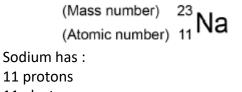
If EM waves are emitted by the atom, then

electrons move closer to the nucleus

Rutherford's experiment:

Alpha particles fired at gold leaf Most went straight through Some deflected to the side Some came straight back This told him that most of the atom was empty space and that the positive charge was in a tiny nucleus

- Atoms of the same element have the same number of protons.
- This is the atomic (proton number)
- In an atom, the number of electrons is equal to the number of protons.
- The total number of protons and neutrons is called the mass number



- 11 electrons
- 12 neutrons (23-11)

Isotopes

Isotopes are atoms with same number of **protons**, but different numbers of **neutrons** (different mass number)

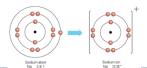


These two isotopes both have 8 protons One has 8 neutrons (16-8) One has 10 neutrons (18 – 8)

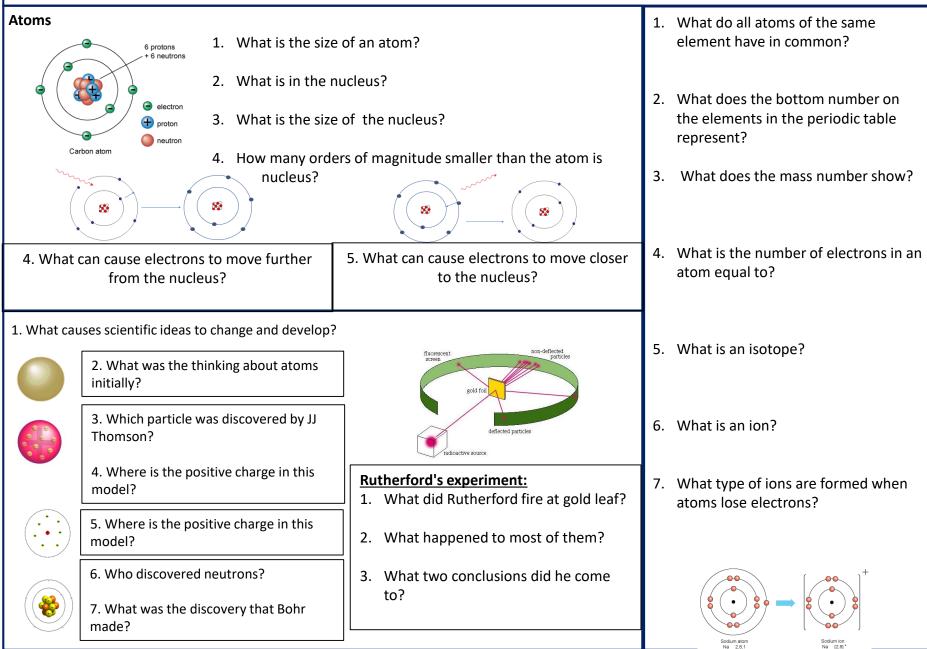
lons

E.g.

If atoms lose one or more outer electrons, they turn into positive ions



P4 Mainstream Higher - Radioactivity



P4 Mainstream Higher - Radioactivity

Nuclear radiation

If an isotope is **unstable**, then **particles** and **energy** are emitted from the nucleus. There are 3 main types :

	i	· · · · · · · · · · · · · · · · · · ·	i	
Radiation	What is it?	How far does it travel?	lonising power	Penetrating power
Alpha α	2 protons and 2 neutrons	A few cm	Strong	Stopped by paper
Beta β	A fast moving electron	Metres	Medium	Stopped by aluminium
Gamma y	An electromagnetic wave	kilometres	Weak	Takes thick concrete or lead to stop it

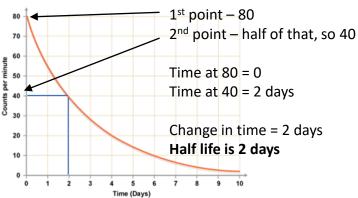
Neutrons can also be emitted from the nucleus.

Half life

Radioactive decay is random.

The half life of an isotope is the time it takes for half of the atoms in the sample to decay OR for the count rate to fall by half

Half life is calculated from a graph by reading two points off the y axis – one value being half the other. Read the corresponding change in time.



Isotopes are selected for use depending on their properties and half life – e.g. a medical tracer needs to have a short half life so it isn't in the body for very long

Alpha decay:

An unstable nucleus gives out 2 protons and 2 neutrons α

An alpha particle is written as :

So when a particle gives out alpha radiation, it loses 2 from the proton number and 4 from the mass number E.g

$$^{226}_{88}$$
 Ra $\rightarrow ^{222}_{86}$ Rn + $^{4}_{2}$ α

Beta decay:

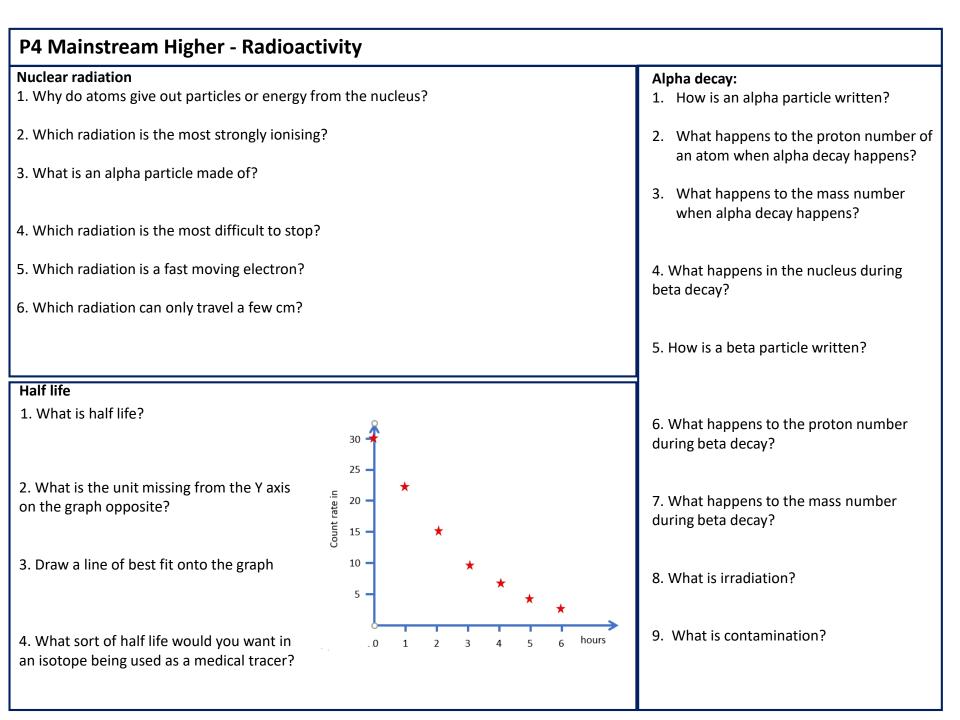
In an unstable nucleus, a neutron changes into a proton and an electron. The electron is fired out as the beta particle Beta particles are written as $\int_{1}^{0} \beta$ or $\hat{}_{e}$

The proton number increases The mass number stays the same E.g. $_{^{14}}_{^{6}}$ carbon $\longrightarrow ^{^{14}}_{^{7}}$ nitrogen + $^{^{0}}_{^{-1}}$ e

The emission of a gamma ray **does not** change the nucleus

Irradiation is the exposure to alpha, beta or gamma radiation

Contamination is the presence of radioactive atoms on materials.







9. Global atmospheric circulation

Factor	Explanation
Global atmospheric circulation	Worldwide system of winds, which transport heat from the equator to the poles.
Key information	Wind is large scale movement of air from HIGH to LOW pressure. This is caused by differences in temperature at the Equator and the poles. The circulation is divided into loops called CELLS. Low pressure = Rising air = Rain. High pressure = Sinking air = Clear skies.
Polar cell Ferrel cell winds Trade winds Hadley cell Hadley cell Ferrel cell Polar cell	At the poles, cool air sinks creating high pressure. (<250mm rainfall). At 60°N air rises between the <u>Ferrel</u> and Polar cell creating an area of low pressure. The UK gets lots of <u>low pressure</u> weather blown in from the Atlantic. At 30°N air sinks between the <u>Ferrel</u> /Hadley cell creating high pressure (deserts <250mm rain). On the equator air rises as the sun's heat is most concentrated. This creates a <u>low</u> <u>pressure</u> area with high rainfall. (Rainforests >2000mm of rain). Surface winds blow towards the equator (trade winds). Direct hurricanes to west. Here winds blow towards the poles and are called Westerlies. (From the west). The winds curve due to the spin of the earth (Coriolis effect).

11. Evidence that weather is becoming more extreme...

Our weather is naturally variable BUT extreme events are becoming more common and severe.

Hazard	Example
	10 warmest yrs all occurred since 1990.
Temperature	2018 joint hottest summer on record.
	Dec 2010 coldest month for 100 years.
	More rainfall records broken between
Rainfall	2010 - 2014 than in any other decade.
	Dec 2015 wettest month on record.

10. Weather hazards in the UK

Hazard	Example
Extreme	A weather event that is significantly
weather	different from the average pattern and
weather	is especially severe or unseasonal.
Strong	Damage property / disrupt transport.
winds	2018 Storm Ali killed 2 people.
Hoover rain	Can cause flooding, costing millions.
Heavy rain	Cockermouth 2009 314 mm in 24 hrs.
Snow	Injury, death, travel disruption.
Show	March 2018 Beast from East. 50 cm.
Drought	Crop failure, rules to conserve water.
	April 10-March 12 only 75% of rain.
Uppturg	Pollution builds up- breathing problems.
Heatwaves	Death. BUT tourism benefits. 2018.

12. An example of a recent extreme weather event in the UK

Name	Somerset Floods, 2014					
Causes	350mm rain fell in Jan and Feb					
Causes	High tides, rivers not dredged for 20 yrs					
	1 🎍 £10 million damage					
	2 🗴 14,000 ha of farmland flooded					
Impacts	3 🕴 600 homes flooded					
	4 🕴 Moorland and Muchelney cut-off					
	5 🚓 Floodwaters contaminated					
	6🛃 Soil damaged for 2 years after					
	Immediate responses					
	 Army helped with rescue boats 					
	 Volunteers and community groups 					
Manage-	 Locals used boats to go 					
ment	shopping/school					
strategies	Long term responses					
ũ	 £20 million flood action plan 					
	 Rivers dredged 					
	 Road levels raised 					
	 Tidal barrage by 2024 					
	 Ital barrage by 2024 					



GCSE Geography AQA. 3. Natural Hazards



OCSE DEOgraphy AQA. 5. Natural hazarus						
9. Global atmospheric	circulation		10. Weathe	er hazards in the UK		
Factor	Explan	ation	Hazard	Example		
Global atmospheric circulation			Extreme			
			weather			
			Strong			
Key information			winds			
Polar cell			Heavy rain			
Ferrel			Snow			
60-N cell			Drought			
30°N Trade H Hadley cell			Heatwaves			
U Trade winds Hadley				mple of a recent extreme vent in the UK		
30+5 H			Name			
Hesteries Ferral						
60°5 Ferrel H			Causes			
Polar cell			Impacts			
<u> </u>						
	11. Eviden	ice that weather is				
	becoming	more extreme				
	Hazard	Example	Manage-			
	Hazaru	Example	ment			
			strategies			
	Temperature					





13. Tropical storms							
Hurricanes, cyclones, typhoons. An area of low							
pressure wit	th winds moving in a spiral around the						
calm centr	ral point called the eye of the storm.						
Winds a	are powerful and rainfall is heavy.						
Factor	Explanation						
	5° – 30° north and south of equator						
Global	(sea temp warm, wind shear low).						
distribution	More in the northern hemisphere.						
	Move towards the west.						
Relationship	Trade winds (from high to low						
with ACM	pressure) send tropical storms to west.						
Structure	Circular, can be 100s of km wide.						
Salaz	Eye- calm in centre (air 🕹, LOW).						
0022 4500	Eyewall- strong winds, torrential rain.						
~	Edges- Wind speed falls, rain reduces.						
How v	vill climate change affect them?						
Distribution	Increase to higher latitudes (warmer						
Distribution sea temperatures).							
Frequency	Number could increase. (Longer season)						
Intensity	Stronger? More evaporation.						

14	4. Forn	nation of tropical storms						
	Include	processes and ensure correct sequence.		Γ				
		5-30° latitude.		F				
Co	onditions	Ocean depth > 60m deep.						
		Sea temperature > 27°C.						
		Form summer and autumn.						
1.	Sun heat	ts the ocean (27°C) > rapid evaporation.						
2.	Condens	sation occurs quickly leading to a large		Γ				
	amount	of cloud forming (tropical depression).						
3.	Due to t	he earth's rotation, this cloud mass starts						
	to spin.	An eye is formed in the centre.						
4.	Due to r	ising air, a low pressure area forms below.						
	Air rushes into this creating high wind speeds.							
	(>74mph = tropical storm)							
5.	The low pressure results in the ocean being							
	uplifted	forming a storm surge.						

15. How can we reduce the impacts?								
Strategy	Explanation							
Prediction / monitoring	Satellites and aircraft to monitor storms. Computer models calculate the predicted track. Allows warnings so people can evacuate or protect their home.							
Planning	New developments avoid high risk areas Emergency services train and prepare. Plan evacuation routes. Reduces the injuries and deaths.							
Protection	Building design- reinforced concrete, stilts to reduce flood risk. Flood defences along rivers and coasts. Reduces the number of buildings destroyed so fewer injuries and deaths.							

16. Tropical storms affect people and environments.

•		
	Generic	Typhoon Haiyan 2013 Philippines
	Direct results of strong winds, high	
Primary effects	rainfall, storm surges.	• 1.1 million houses damaged.
	Flooding, buildings destroyed, death.	90% of Tacloban city destroyed.
Secondary	Homelessness > lead to poor health.	🛉 4.1 million homeless.
effects	Lack of sanitation > diseases (cholera)	Damage cost US\$12 billion.
	Food shortages, price increase.	i 1.1 million tonnes of crops destroyed (rice).
Immediate	Evacuate before the storm. Rescue those affected.	 Over 1200 evacuation shelters set up. Philippines Red Cross delivered basic food aid.
responses	Provide food, water, blankets. Aid workers arrive from abroad. Recover dead bodies (prevent disease).	 > UK sent shelter kits. > 800,000 evacuated (warnings given 2 days early).
Long term responses	Repair homes and infrastructure. Promote economic recovery.	 More cyclone shelters built. No build zones. 'Cash for work' programmes.





13. Tropic	al storms	14. Forma	ition of tropical storms	15. How	can we reduce the impacts?
				Strategy	Explanation
		Conditions		Prediction / monitoring	
Factor	Explanation				
Global distribution				Planning	
Relationship with ACM					
0 AD (200				Protection	
		16 Tropic	al storms affect people and	onvironmo	
How w	ill climate change affect them?	16. Hopic			
Distribution			Generic	<u> </u>	bhoon Haiyan 2013 Philippines
Frequency		Primary effect	s	ő	
Intensity		Secondary effects		ă	
		Immediate responses		* * *	
		Long term		> >	
		responses		>	

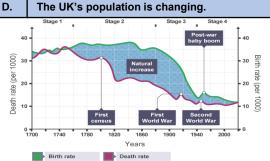


Year 10 OCR - Unit 2 GEOGRAPHY - Knowledge organiser: People of the UK



¥				_		-	
What we	are learnin	C.		There are dif			
	JK is conne	North-south divide					
place B. The L	s. JK is a dive	Deindustrialisation					
geogi	aphical pat	terns.	ses and consequences of	Ge	ogra	phical location	
devel	opment with	nin the	UK.	Ec	onor	nic change	
	JK's popula are causes		changing. nd consequences of urban				
trends	s in the UK		·	Inf	rastr	ucture	
			llenges and ways of life, , culture and geography.	Go	vern	ment policy	
6 Key Wo	rds for this	s term					
1. Trade			4. Suburbanisation	Ho	w ha	as Swindon exp	
2. Deindu	strialisation		5. Counter-urbanisation			at Western Rai ng many jobs ai	
3. Infrastru	ucture		6. Re-urbanisation	Lo	ndor	and Bristol.	
Α.	The UK is and place	2. Honda was built other car companies 3. The old train shee					
1. Trade		novement of goods and services as the world.		D. The UK's p			
2. Imports		Produ	Products brought into a country			The UK's popul	
3. Exports		Produ	Products taken out of a country. When a country imports more than they export. Tax that must be paid on imports or exports.			- First	
4. Trade de	ficit						
6. Tariffs							
	e UK is a div ographical p		nd unequal society which has		0	0 1740 1780 18	
			oyment in the services industry as education or healthcare.		_		
			oyment is research, technology nedia.		1. Demographic transition model (DTM). 2. Ageing population		
once			noney people have to live on their taxes, pensions and rent been paid.				
4. Diversity Diffe			rences within society. For place pla			omically active	
			vealth.	4.1	mmię	gration	

C. There are diff	rent causes and consequences of development within the UK.							
North-south divide	The difference in wealth in the	UK between North and South.						
Deindustrialisation	The closing down of factories	and industry in an area.						
Geographical location	The south of England is close	r to London so there are more job opportunities.						
Economic change	Deindustrialisation in the North led to mines and factories closing down. This led to widespread unemployment.							
Infrastructure	Transport, services and communications are better in the South meaning it is easier to travel to Europe.							
Government policy	The government invest more i to improved infrastructure, edu	in the south because it is closer to London. This can lead lucation and healthcare.						
How has Swindon expe	erienced economic growth?	How has Swindon experienced economic decline?						
providing many jobs and London and Bristol. 2. Honda was built in 1 9 other car companies su	vay was opened in 1843 d connecting Swindon to 085 and has attracted many ch as BMW and Jaguar. ere converted into the Outlet urists.	 GWR yard was closed in 1986 meaning that 40% of Swindon lost their jobs. Honda closed in 2019 because it was cheaper to produce cars abroad. Over 3,000 jobs lost. Low levels of employment mean that people have less disposable income to spend in local businesses. 						
D The UK's nonula		D The HIGh menulation is shown in a						



1. Demographic transition model (DTM).	Shows the changes in population over time by measuring birth rate and death rate.
2. Ageing population	Growing proportion of people above the age of 60.
3. Economically active	Proportion of the population who are employed and pay taxes.
4. Immigration	Inward movement of people to the UK.

	D.	The UK's population is changing								
	Causes of an ageing population (2) Positive effects of an ageing population (2) Negative effects of an ageing population (2)		 Improved healthcare. People living more active lifestyles. 							
			 Skilled workforce More money spent in leisure facilities or resorts. 							
			 Cost of healthcare is high. Elderly people do not work so do not pay taxes. 							
	Government responses to an ageing population (2)		 Pension age raised to encourage people to continue working. Increased investment in care homes and healthcare. 							



Year 10 OCR - Unit 2 GEOGRAPHY - Knowledge organiser: People of the UK



What we are learning this term:				C. There are different causes and consequences of development within the UK.					
		ected to many other countries and	North-s	outh divide					
places. B. The UK is a diverse and unequal society which has			Deindu	strialisation					
ç	eographical pat	tterns.	Geogra	aphical location					
с D. 1	evelopment wit he UK's popula	ition is changing.	Econor	nic change					
t F. C	ends in the UK ities have distri	inct challenges and ways of life,	Infrastr						
	Words for this	people, culture and geography.	Govern	ment policy					
-		4.	How ha	as Swindon expe	rienced economic growth?	How ha	s Swin	don exper	ienced economic decline?
1.		5.	1.			1.			
2.			2.			2.			
3.	The LUK is	6.							
А.	A. The UK is connected to many other countries and places.		3. 3.			3.			
1. Trade									
2. Imp	orts		D. The UK's population is changing.				D.	The UK's	s population is changing
3. Exp			Stage 1 Stage 2 Stage 2 Stage 3 Stage 4 Post-war baby boom 10 20 10 10 10 10 10 10 10 10 10 1				Cause	es of an	1.
4. Tra	de deficit						agein popul	g ation (2)	2.
6. Tar	ffs						Positiv	ve s of an	1.
B. The UK is a diverse and unequal society which has geographical patterns.		First First World War World War 0 1700 1740 1780 1820 1880 1900 1940 2000 0 Years				ageing 2. population (2)			
1. Tertiary sector		Birth rate Death rate			Negative 1. effects of an ageing 2.		1. 2.		
2. Quaternary sector		model (I	ographic transition DTM).				ation (2)	2.	
3. Disposable income			2. Ageir	g population			respo an ag	rnment nses to eing ation (2)	1. 2.
4. Div	ersity		3. Econ	omically active			1- 2-2 20	(=)	
		4. Immię	gration						





D.	The UK'	UK's population is changing							D.		ave distinctive challenges and ways of	
	the 21 st century. quality education and global conflict.					he 21 st century due to increase in job opportunities, high				geograp	enced by its people, culture and hy. (CASE STUDY OF BRISTOL)	
Desitive	2. Immigrants come from all over the work Positive impacts of migration on the UK				d including Poland, India and Pakistan. Negative impacts of migration on the UK			Locat	ion	South-west England. Near the Bristol Channel		
	· ·	•			-		•		4		1.5 hours from London	
Social (2		I.Different cultures in and fashion. 2.They bring skills tha supply in the UK.	5 /		Social	Social (2) 1.People may feel that they are takin local jobs and houses. 2.Can lead to cultural conflict		nd houses.	importance within the UK and wider world		 Two universities UKs 8th largest tourist destination Home of Airbus and Rolls Royce Home of Aardman Animations 	
Economi	. ,	I.Workers pay taxes invested into the cc 2.Immigrants are ofte well educated (e.g.	ommunity. en highly skille	d and	Econor	mic (2)	education. 2.Money may	for healthcare and / be sent home and not e local community,	Migration		 Population has doubled between 1851 and 1891. Countries are represented in Bristol St Paul's carnival brings music from African and Caribbean communities. 	
		causes for and con ids in the UK	sequences o	f	Е.		re causes for rends in the U	and consequences of K	Chall Housi	enges:	1.Average house price is £350,000 2.Highest homeless population in the UK	
Urban		Towns and cities			Causes			vding in cities.	availa	0		
Rural		Countryside and	villages		suburbanisation (3)2.Improved transport links into inner- city areas.		Challenges:					
Urbanisa	tion	The growing prop moving to cities	ortion of peop	le			3.Land may be cheaper outside of the city.		Transport provision		2.Poor public transport links	
Suburbar	nisation	The outward spre surrounding greer		0	counter- urbanisation (3)			rowding in cities. e want a more peaceful le.	Challenges: Waste management		 High amount of food waste. Half a million tonnes of waste per year. 	
Counter- urbanisat	ion	The movement of to rural areas.	people from u	urban			3. Poor air quality in cities.		Susta strate	inable gies:	Brabazon housing estate with provide over 2,500 new affordable homes.	
Re-urbar	isation	Improving inner ci people and busine		ract	Causes of re- urbanisation (3)1. Government investment. 2. Counter-urbanisation. 3. Inner city decline.		Housing		 Successful because it uses brownfield sites. Unsuccessful because the homes are 			
Е.	There ar	e causes for and co	onsequences	of urban	trends ir	n the UK					still expensive	
Consequ	iences of	suburbanisation	Consequer	nces of co	ounter-ur	banisatior	n Consequ	ences of re-urbanisation	Susta strate	inable gies:	Voi electric scooters. Park and ride to connect the suburbs to	
Social (2)	co	creased traffic ongestion. onger commutes.	Social (2)	count	sing prices in tryside increases. /ded public services		Social (2)	1.over-crowding. 2.Housing prices increase	Trans	port	 the inner city. Successful because it reduces CO2 emissions. Unsuccessful because the park and 	
Economi (2)			e prices increase in Econo 1.Housing prices vside.				ride is unreliable.					
(2)	2.Sł	nops in city entres close.	(2)		-city decli	ne	mic (2)	2.Office space is expensive.	Susta strate Waste		 'Slim my waste, feed my face' initiative to cut down on food waste. Successful because it has led to food 	
Environm ntal (2)	2.G	oor air quality. reen areas estroyed	Environm ental (2)		sure on lo	fic congestion. on local water nment al (2)		 1.Increased traffic in cities. 2.Air pollution 			 being recycled Unsuccessful because it is not well monitored. 	





		s population is cha	nging						F.	life, infl	ave distinctive challenges and ways of uenced by its people, culture and
Immigration the 21 st cer	Immigration in the 21st century.1.2.						Locat	1	bhy. (CASE STUDY OF BRISTOL) 1.		
Positive im	npacts of	migration on the UK			Negativ	e impacts	of migration or	the UK			2. 3.
Social (2)	Social (2) 1. 2.		Social (2) 1. 2.				1. 2. 3. 4.				
	Economic (2) 1. 2.			Econom		1. 2.		Migra	ation	1. 2. 3.	
		causes for and con Ids in the UK	sequences o	f	E. Causes	urban t	re causes for rends in the U	and consequences of K	Chall Hous availa	•	1. 2.
Rural				(3) 3.			lenges:	1. 2.			
Suburbani	isation				Causes of 1. counter- 2. urbanisation (3)		Wast	l enges : e agement	1. 2.		
Counter- urbanisatio Re-urbanis	-				3. Causes of re- urbanisation (3) 2. 3.			ainable egies: ing	Successful because Unsuccessful because		
		e causes for and co suburbanisation	onsequences Consequer				n Consequ	ences of re-urbanisation		ainable egies:	
Social (2)						Social 1. (2) 2.		Trans	•	Successful because Unsuccessful because	
Economic (2)	; 1. 2.		Economic (2)	pnomic 1. 2.		Econo mic (2)	1. 2.	Sustainable strategies: Waste		• Successful because	
Environme ntal (2)	e 1. 2.		Environm ental (2)	1. 2.			Enviro nment al (2)	1. 2.			Unsuccessful because

GCSE History : Medicine in 18th and 19th Century Britain

		B Change and continuity in	·	and 40th Construme (2.4.2.2)
What we	e are learning this term:		n ideas about disease and illness in the 18 th a	
3.1 Ideas about the cause of disease and illness3.2 Approaches to treatment and prevention3.3 Key Individuals and fighting cholera in London,1854			Prevention Vaccinations – the work of Edward Jenner in the 18 th century led to the first vaccination being created for smallpox. This led the way to other vaccinations being produced as	Treatments Continuance – despite the new ideas about the cause of disease and illness in the 18 th century, it took a while for medical science to catch up. Not a
A.	Can you define these key words?		Pastuer and Robert Koch isolated microbes which caused certain diseases	great deal of understanding how to remove germs as part of treatment
microbes	Any living organism that is too small to see without a microscope. Microbes include bacteria.	Revolution – people started to look for answers in the world about disease and	Public Health Act 1875 – in the 18 th Century the government had a very <i>laissez-faire</i> attitude to public health. This changed when more men could vote. The government	Hospitals – Florence Nightingale was a pioneer in changing hospitals and hospital care in the 19 th Century. Following her success at the war
vaccinatior	n Treatment with a vaccine to produce immunity against a disease		realised changes were needed and passed the Public Health Act. This Act stated that	hospital in the Crimea, Nightingale changed the way that hospitals were
spontaneo generation	Dus Claimed rotting matter created microbes.		clean water, sewage system, public parks, housing officers and street lighting had to be	designed to having separate wards and more ventilation. Also set up a training
	gy The study of bacteria.		provided	school for nurses to give better care
inoculate	Deliberately infecting yourself with a disease to avoid a more severe case later on.	theory that disease and illness was	Role of the government – Took a more active role in preventing disease, making smallpox vaccinations compulsory	Anaesthetics – one of the big problems in the 18 th and 19 th centuries was pain during surgery. Ether and laughing gas had been used but they were not good
C.	Fighting cholera in London , 1854 (3.3)	was becoming roos popular		enough. John Simpson discovered that chloroform could be used as a
What is Choler a?	Cholera was a terrible water borne disease that spread quickly across England from 1831. There were lots of cases in slum dwellings.	Spontaneous Generation – this theory stated that rotting matter caused bacteria		pain relief – this led to more complex surgeries being performed Antiseptics – another big problem with surgery was infections. Joseph Lister
Attempts to prevent it	Some steps were taken to clean up the filthiest areas of the city. Idea that it was caused by miasma was widespread, so local councils focused on cleaning up the mess in which they were living	to form, causing people to get ill Germ Theory – this correct theory put		built on Pasteur's work and discovered that carbolic acid could be used to prevent infections. Used on wounds and Sterlised equipment, but some surgeons did not like the change
John Snow	John Snow was surgeon who investigated the 1854 epidemic. He created a spot map to show the deaths and noticed they were concentrated around a water pump in	forward by Louis Pastuer was that germs caused matter to rot. He linked this to disease and illness, stating that germs caused people to get ill		
nho	Broad Street, SoHo. Clear the water pump was the source of the outbreak	Edward Jenner	D. Key People (3.3) John Snow	Edwin Chadwick
Impact of Snows vork	In the short-term Snow removed the handle from the Broad Street pump and the deaths in that area went away. Long- term Snow presented his work to the government arguing clean water needed to be supplied. Many rejected his work and clung to the idea of miasma causing cholera	Country doctor who realised that milkmaids who got cowpox did not catch smallpox – decided they must be connected. Tested his theory by infecting a local boy with cowpox and then tried to infect him with smallpox but he did not get ill. Wrote up his findings to make sure doctors could follow. Had successfully developed the first vaccine, which was supported by the government.	Used scientific methods to prove that cholera was a water borne disease in the 1850's. Snow presented his findings to the government, recommending that the sewer systems were improved, which they were eventually.	Published his <i>Report on the Sanitary</i> <i>Conditions of the Labouring Classes</i> in 1842. he spent time researching the urban poor and discovered that people living in cities had a lower life expectancy than people living in the countryside. Campaigned for all cities to set up boards of health, responsible for clean water and disposing sewage.

What we	e are learning this term:	B. Change and conti	nuity in idea	as about disease and illness in th	e 18th and 19th Century. (3.1-3.2)
	s about the cause of disease and	<u>Causes</u>		Prevention	Treatments
illness					
	oaches to treatment and prevention				
London,	ndividuals and fighting cholera in				
Α.	Can you define these key words?				
microbes					
vaccinatic					
spontaneo	DU				
s generatio	n				
bacteriolo	9				
y inoculate					
inoculate					
C.	Fighting cholera in London , 1854 (3.3)				
What					
is Cholor					
Choler a?					
npts even					
Attempts to prevent it			<u> </u>		
it At				D. Key People (3.3)	
		Edward Jenner		John Snow	Edwin Chadwick
⊆ ≷					
John Snow					
Impact of Snows work					
act ws					
mp: Sno					
		1			

GCSE History : Medicine in 18th and 19th Century Britain

M/h at use	are learning this terms	B. Change and continuity in	ideas about disease and illness in the 18th	and 19th Century. (3.1-3.2)
	are learning this term:	Causes	Prevention	<u>Treatments</u>
3.2 Appro	about the cause of disease and illness baches to treatment and prevention ndividuals and fighting cholera in London,	God was responsible for illnesses and world events	Vaccinations – the work of Edward Jenner in the 18 th century led to the first vaccination being created for smallpox. This led the way to other vaccinations being produced	Continuance – despite the new ideas about the cause of disease and illness in the 18 th century, treatments to remove germs took longer to find
Α.	Can you define these key words?		Public Health Act 1875 – in the 18 th Century the government did not care much about	Hospitals – Florence Nightingale helped to change hospitals and
microbes	Any living organism that is too small to	caused by harmful fumes in the air. BUT	public health.	nursing.
	see without a microscope. Microbes include bacteria.	it was becoming less popular	This changed when more men could vote. The government realised changes were	Nightingale changed the way that hospitals were designed to having
vaccinatior	Treatment with a vaccine to produce immunity against a disease		needed and passed the Public Health Act.	separate wards and more ventilation.
generation	us Claimed rotting matter created microbes.		This Act stated that clean water, sewage system, public parks and street lighting had	Also set up a training school for nurses to give better care
bacteriolog	y The study of bacteria. Deliberately infecting yourself with a		to be provided Role of the government – Took a more active	Anaesthetics – one of the big
	disease to avoid a more severe case later on.		role in preventing disease, making smallpox vaccinations compulsory	problems in the 18 th and 19 th centuries was pain during surgery.
C.	Fighting cholera in London , 1854 (3.3)			Ether and laughing gas had been
				used but they were not good enough.
What is Choler	Cholera was a terrible water borne disease that spread quickly across			John Simpson discovered that
a?	England from 1831. There were lots of cases in slum dwellings.			chloroform could be used as a pain relief – this led to more complex surgeries being performed
0	Some steps were taken to clean up the	Germ Theory – this correct theory put		Antiseptics – another big problem with
Attempts to prevent it	filthiest areas of the city. Idea that it was caused by miasma was widespread, so	forward by Louis Pastuer was that germs caused matter to rot. He linked this to		surgery was infections.
emp	local councils focused on cleaning up the	disease and illness, stating that germs		Joseph Lister built on Pasteur's work and discovered that carbolic acid
Atto	mess in which they were living	caused people to get ill		could be used to prevent infections.
	John Snow was surgeon who investigated			Used on wounds and Sterlised
3	the 1854 epidemic. He created a spot map			equipment, but some surgeons did not
Sno	to show the deaths and noticed they were concentrated around a water pump in			like the change
John Snow	Broad Street, SoHo. Clear the water pump		D. Key People (3.3)	
ř	was the source of the outbreak	Edward Jenner Country doctor who realised that milkmaids	John Snow Used scientific methods to prove that	Edwin Chadwick
	In the short-term Snow removed the handle from the Broad Street pump and	who got cowpox did not catch smallpox –	cholera was a water borne disease in	Published his Report on the Sanitary Conditions of the Labouring Classes in
SM	the deaths in that area went away. Long-	decided they must be connected. Tested his	s the 1850's.	1842.
Impact of Snows work	term Snow presented his work to the	theory by infecting a local boy with cowpox and then tried to infect him with smallpox	Snow presented his findings to the	He spent time researching the poor in
tof	government arguing clean water needed to be supplied. Many rejected his work	but he did not get ill.	government, recommending that the	cities and discovered that people living
rk rk	and clung to the idea of miasma causing	Had successfully developed the first	sewer systems were improved, which they were eventually.	in cities had a lower life expectancy than people living in the countryside.
	cholera	vaccine, which was supported by the		Asked for boards of health to be set up
		government.		to make cities cleaner.

GCSE History : Medicine in 18th and 19th Century Britain

What we	are learning this term:	B. Change and continuity in	n ideas about disease and illness in the 18 th a	and 19 th Century. (3.1-3.2)
3.1 Ideas	about the cause of disease and illness	Causes	Prevention	Treatments
	aches to treatment and prevention ndividuals and fighting cholera in London,		Vaccinations – the work of in the 18 th century led to the first vaccination being created for This led the way to other vaccinations being produced	Continuance – despite the new ideas about the cause of disease and illness in the 18 th century, took
Α.	Can you define these key words?		Public Health Act 1975 in the 19th Contury the	longer to find Hospitals – helped
nicrobes	Any living organism that is too small to see Microbes include	Miasma – people still believed in the theory that was caused by harmful fumes in the air. BUT it was	Public Health Act 1875 – in the 18 th Century the government did not care much about This changed when more men could vote. The	to change hospitals and nursing. Nightingale changed the way that hospitals
vaccination	against a	becoming	government realised changes were needed and passed the	were to having separate wards and more Also set up afor
spontaneou generation pacteriolog			This Act stated that clean, , public parks and street lighting had to be provided	nurses to give better care
noculate	Deliberately yourself with a disease to avoid a case later on.	Spontaneous Generation – this theory stated that	Role of the government – Took a more in preventing disease, making smallpox vaccinations	duning surgery.
C.	Fighting cholera in London , 1854 (3.3)	, causing people to get ill		Ether and laughing gas had been used but they were
	Cholera was a terrible disease that spread quickly across England from There were lots of cases in dwellings.			John discovered that chloroform could be used as a – this led to more complex surgeries being performed
event	Some steps were taken to clean up the areas of the city. Idea that it was caused by was widespread, so local councils focused on up the mess in which they were living	Germ Theory – this correct theory put forward by was that germs caused matter to rot. He linked this to and illness, stating that germs		Antiseptics – another big problem with surgery was Joseph built on Pasteur's work and discovered that could be used to prevent infections.
	John Snow was who investigated the 1854 epidemic. He created a to show the deaths and noticed they were concentrated around a			Used on wounds and Sterlised , but some surgeons did not like the change
Sn	water pump in, SoHo.		D. Key People (3.3)	
uho	Clear the water pump was the source of the outbreak	Edward Jenner	John Snow	Edwin Chadwick
	In the short-term Snow removed the from the Broad Street pump and the deaths in that area	Country doctor who realised that who got did not catch smallpox – decided they must be connected. Tested his by infecting a local boy with cowpox	Used to prove that cholera was a disease in the 1850's.	Published his Report on the Sanitary Conditions of the Labouring Classes in
of Snows	Long-term Snow presented his work to the government arguing needed to be supplied. Many his work and	and then tried to infect him with smallpox but he Had successfully developed the first	Snow presented his findings to the, recommending that the sewer systems were, which they were eventually.	He spent time researching the and discovered that people living in cities had a expectancy than people
Impact	clung to the idea of causing cholera	, which was supported by the government.		living in the countryside. Asked for boards of health to be set up to make cities

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Year 10 GCSE Religious Education KO - Islam Practices



Keywords		What we a	re learning in this unit	B.	The 5 Pillars - Salah
Tawalla	Showing love for God and for those who follow Him	B. Salah	B. Salah		
Tabarra	Disassociation with God's enemies	C. Sawm D. Zakah vith God's E. Hajj		What is it?	 "Salah is a prescribed duty that has to be performed at the given time by the Qur'an" Muslims pray 5 times per day and this allows them to communicate with Allah. The prayers are done at dawn (fajr), afternoon (zuhr), late afternoon (asr), dusk (maghrib) and night (isha) Muslims face the holy city of Makkah when
Khums	The obligation to pay one- fifth of acquired wealth	G. Id-ul-A	F. Jihad G. Id-ul-Adha H. Id-ul-Fitr		
Lesser jihad	The physical struggle or holy war in defence of	Α.	5 Pillars of Islam and 10 obligatory acts		paying.
Greater jihad	Islam The daily struggle and	What are the 5 pillars	 5 key practices or duties for Muslims Both Sunni and Shi'a keep these (Shi'a have them as part of the 10 obligations) 	Wuzu	 The washing process to purify the mind and body for prayer Muhammad said the key to Salah is cleanliness Hands, arms, nose, mouth, head, neck and ears are
	inner spiritual striving to liv as a Muslim		 They are seen as pillars "holding up the religion" and are all of equal importance 		cleaned as well as both feet up to the ankle.
Sunni	Muslims who believe in the successorship of Abu Bakr Umar, Uthman and Ali as leaders after the Prophet Muhammad	What are the 10 obligatory acts	 There are 10 obligations for a Muslim according to the Shi'a branch of Islam. These include prayer, fasting, almsgiving, pilgrimage, jihad, khums, directing others towards good, forbidding evil, tawalla and tabarra 	Rak'ahs and recitations	 These are the movements that Muslims make during prayer Takbir – raise hands to ears and say 'Allahu Akbar' Qiyam – Standing, Muslims recite Surah Then bow to the waist saying "Glory be to my Great Lord and praise be to Him"
Shi'a	Muslims who believe in the Imamah, leadership of Ali	Shahadah	Shahadah is the first of the 5 pillars		 Then sink to their knees saying "Glory be to my Lord, The Most Supreme".
Niyyah	and his descendants Intention during prayer - having the right intention to worship God		 It is the Muslim declaration of faith <i>"there is no God but Allah, and Muhammad is</i> <i>His messenger"</i> This is a statement that Muslims reject anything but Allah as their focus of belief 	Salah at home	 Salah is a big part of family life Meals and other activities are usually scheduled to fit around prayer times Families pray all together and might have a room set aside for prayer
Du'a	A personal prayer that is done in addition to Salah e.g. asking Allah for help		 It also recognises that Muhammad has an important role and his life is an example to follow 	Salah in the mosque	 All mosques have a qiblah wall which is to show where to face Makkah Men and women pray in separate rooms at the
	Jihad			Jummah	Mosque
oppressed by • "Fight in the v • Conditions for • sel • pro • leg		by the Meccans an	f-defense portionate itimate authority		 Jummah is congregational prayer held on a Friday at the mosque where the imam leads the prayer Praying together as a community develops the feeling of unity amongst Muslims Men are obliged to attend unless they are sick or too old Women do not have to go – they may pray at home instead
Greater Jihad	e.g. perfor	vithin oneself to fo n the Five Pillars, fo	, llow the teachings of Islam and be a better person ollow Sunnah and avoid temptation forbid what is wrong"	Differences between Sunni and Shi'a	 Shi;a Muslims combine some prayers so they may only pray 3x a day Shi'a use natural elements e.g. clay where their head rests

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Year 10 GCSE Religious Education KO - Islam Practices

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Kauwanda		What we ar	re learning in this unit	В.	The 5 Pillars - Salah
Keywords				Б.	
Tawalla		A. The 5 Pillars and 10 Obligatory Acts B. Salah C. Sawm D. Zakah			
				What is it?	
Tabarra		E. Hajj F. Jihad			
Khums		G. Id-ul-Ad H. Id-ul-Fi			
Lesser jihad		Α.	5 Pillars of Islam and 10 obligatory acts		
		What are the 5		Wuzu	
Greater jihad		pillars			
Sunni		What are the 10 obligatory acts		Rak'ahs and recitations	
Shi'a		Shahadah			
Nimush		Shahadan		Salah at home	
Niyyah					
Du'a				Salah in the mosque	
	Jihad				
Lesser Jihad				Jummah	
Greater Jihad				Differences between Sunni and Shi'a	



Year 10 GCSE Religious Education KO - Islam Practices



	The 5 Pillars - Zakah		The 5 Pillars - Sawm
The role of giving alms	 Muslims believe it is their duty to ensure Allah's wealth has been distributed equally as everyone is the same The Qur'an commands to give to those in need 	The role of fasting	 Fasting during Ramadan (9th month in Muslim calendar) Muslims give up food, drink, smoking and sexual activity in daylight hours Pregnant people, children under 12, travellers and elderly people are exempt from fasting.
The significance of giving alms	 Giving 2.5% of savings/wealth to charity Wealth can cause greed which is evil, so Zakah purifies wealth – wealth is given by God and must be shared The Prophet Muhammad practiced Zakah as a practice in 	The significance of fasting	 Ramadan is believed to be the month that Prophet Muhammad began to receive revelations of the Qur'an Helps Muslims to become spiritually stronger
	 Medina Given to the poor, needy and travellers Sadaqah is giving from the heart out of generosity and compassion 	Reasons for fasting	 Obeying God and exercising self-discipline Develops empathy for the poor Appreciation of God's gifts Giving thanks for the Qur'an
Khums	 Shi'a Islam – one of the 10 obligatory acts 20% of any profit earned by Shi'a Muslims paid as a tax Split between charities that support Islamic education and anyone who is in need <i>"know that whatever of a thing you acquire, a fifth of it is for Allah, for the Messenger, for the near relative, and the orphans, the needy, and the wayfarer"</i> 	Night of power	 Sharing fellowship and community with other Muslims The night when the Angel Jibril first appeared to Muhammad and began revealing the Qur'an. The most important event in history – <i>"better than a thousand months"</i> (Surah 97:3) Laylat Al-Qadr is the holiest night of the year. Muslims try to stay awake for the whole night to pray and study for the Qur'an
	The 5 Pillars - Hajj		Id-ul-Adha, Id-ul-Fitr, Ashura
The role of pilgrimage The significance of	 A pilgrimage to Makkah which is compulsory for Muslims to take at least once as long as they can afford it and are healthy God told Ibrahim to take his wife and son on a journey and 	ld-ul-Adha Not an official holiday in UK	 Festival of sacrifice Marks the end of Hajj and is a chance for whole Ummah to celebrate Origins – Ibrahim's commitment to God in being willing to sacrifice his son, Ishmael. God was testing Ibrahim Key events – new clothes, sacrificing an animal, visiting the Mosque.
pilgrimage	 leave them without food or water Hajira ran up and down two hills in search of water, could not find any and prayed to God. Then water sprung from the ground. This is the Zamzam well When Ibrahim returned he was commanded to build the Ka'ba as a shrine dedicated to Allah Hajj is performed in the month of Dhu'l-Hijja 	Id-ul-Fitr Public holiday in Muslim majority countries, not UK	 People ask a butcher to slaughter a sheep for them and share the meat with the community Festival of fast-breaking Marks the end of Ramadan Key events – Decorate homes with colourful light and banners, dress in new clothes, gather in Mosques, give gifts and money, give to the poor Zakah ul-Fitr – donation to the poor so that everyone can eat a generous
Actions	 Ihram – dressing in two pieces of white cloth Circling the Ka'aba 7 times (tawaf) Drinking water from the Zamzam well like Hajar walking between Al-Safa and Al-Marwa hills seven times Throwing stones at 3 pillars (jamarat) to represent casting out the devil and remembering Ibrahim throwing stones at the devil to drive him away Asking Allah for forgiveness at Mt Arafat Collecting pebbles at Muzdalifah 	Ashura	 Sunni celebration – many fast on this day which was established by Prophet Muhammad Shi'a mourning – Husayn was murdered and beheaded. Muslims remember his death and betrayal <i>Key events</i> – public displays of grief, day of sorrow, wear black, re- enactments of martyrdom, not a public holiday in Britain but Muslims may have day off school



Year 10 GCSE Religious Education KO - Islam Practices

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	The 5 Pillars - Zakah		The 5 Pillars - Sawm
The role of giving		The role of fasting	
alms			
The significance of giving alms		The significance of	
giving aims		fasting	
		Reasons for fasting	
		J	
Khums			
		Night of power	
			··· · · · · · · · · · · · · · · · · ·
	The 5 Pillars - Hajj		ld-ul-Adha, Id-ul-Fitr, Ashura
	The 5 Pillars - Hajj		Id-ul-Adha, Id-ul-Fitr, Ashura
	The 5 Pillars - Hajj		Id-ul-Adha, Id-ul-Fitr, Ashura
The role of	The 5 Pillars - Hajj	Id-ul-Adha	Id-ul-Adha, Id-ul-Fitr, Ashura
The role of pilgrimage	The 5 Pillars - Hajj		Id-ul-Adha, Id-ul-Fitr, Ashura
The role of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage	The 5 Pillars - Hajj		Id-ul-Adha, Id-ul-Fitr, Ashura
The role of pilgrimage The significance of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of	The 5 Pillars - Hajj	Not an official holiday in	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of	The 5 Pillars - Hajj	Not an official holiday in	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of	The 5 Pillars - Hajj	Not an official holiday in UK	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr Public holiday in Muslim majority countries, not UK	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr Public holiday in Muslim majority countries, not UK	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr Public holiday in Muslim majority countries, not UK	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr Public holiday in Muslim majority countries, not UK	Id-ul-Adha, Id-ul-Fitr, Ashura
pilgrimage The significance of pilgrimage	The 5 Pillars - Hajj	Not an official holiday in UK Id-ul-Fitr Public holiday in Muslim majority countries, not UK	Id-ul-Adha, Id-ul-Fitr, Ashura

	GCSE Unit 10 SPAN		Key Verbs				
1002	Topic Life at	School and Coll	ege	J			
What we are lear A. Talking about	ning this term: t your school and daily routine	10.1F Las reglas y el uniforme la agenda diary, planner		Acabar de To have just finished	<u>Mejorar</u> To improve	Maquillarse To put mak on oneself	
 B. Talking about school rules and uniform C. Translating into English D. Revising 'se debe', 'hay que', 'tener que' E. Using questions to help your answer 		el apellido el artículo la ausencia buscar	surname article absence to look for	Acabo de I have just finished	Mejoro I improve	Me maquill I put make	
F. Using quanti	fiers and intensifiers this term	el chicle el daño dejar	chewing gum harm to let, allow	Acabas de You have just finished	Mejoras You improve	Te maquilla You put ma on	
 acabar de actuar la ausencia 	1.acabar de4. demostrar2.actuar5. las instalaciones		to show, demonstrate building school (adj.) to sign individual	Acaba de He/she it has just finished	Mejora He/she/ it improves	Se maquila He/she/it put make up on	S
10.1G acabar de	10.1G El día en el instituto acabar de to have just done something		facilities exchange to take, carry, wear	Acabamos de We have just finished	Mejoramos We improve	Nos maquilla We put make	
actuar el aire libre aislado/a el/la alumno/a	actuar to perform el aire libre the open air aislado/a isolated		make up materials while name	Acaban de They have just finished	Mejoran They improve	Se maquila They put m up on	
la asignatura el bachillerato el bocadillo bonito campo de deportes la clase el/la compañero/a corto/a durar empezar			word corridor earring cto to get in touch prohibited, banned punctuality rule respect to suffer to bring journey uniform	10.1H Lo bueno el acoso aguantar aislado/a alegrar up aprobar el aspecto la calefacción el castigo	y lo malo del bullying to put up with isolated to brighten up to pass an exa appearance heating punishment	, to cheer	10. trav beh el tr ya c el fr golp hac incó la in
empezarto start, to beginel equipoteam, equipmentel estanteshelfla evaluaciónassessmentfuncionarto work, to functionganarto winir al bañoto go to the bathroomel juego de mesaboard gamela hora de comerlunch hourel laboratoriolaboratoryla opciónoptionla opciúnoptionla opcutunidadopportunitypasar la listato take the registerel producto químico chemical		el uniforme		el comportamiento la conducta corregir cumplir con en cuanto a encenderse enfadado/a enseñar el equipo la espalda el estante la explicación	behaviour behaviour to mark, to con to fulfil as regards to be turned o angry to teach, show equipment back shelf explanation	'n	la pi mej mol el oc la pa recc el re suci tard

Mejorar To improve	Maquillarse To put makeup on oneself		<u>Hacer –</u> to do/make	Ofrecer To offer
Mejoro I improve	Me maquillo I put make up on		Hago I do	Ofrezco I offer
Mejoras You improve	Te maquilla You put ma on		Haces You do	Ofreces You offer
Mejora He/she/ it improves	Se maquila He/she/it puts make up on	5	Hace s/he does	Ofrece He/she/it offers
Mejoramos We improve	Nos maquillamos We put make up on		Hacemos We do	Ofrecemos We offer
Mejoran They mprove	Se maquilan They put make up on		Hacen They do	Ofrecen They offer
lo malo del	instituto	10.1	H Lo Bueno y I	o malo del instituto
pullying o put up with solated o brighten up, to cheer o pass an exam appearance heating punishment behaviour o mark, to correct o fulfil as regards o be turned on angry o teach, show equipment back shelf explanation		behaved el trimestre ya que el fracaso golpear hace falta incómodo/a la intimidación la pizarra molestar el ocio la pared recordar el repaso sucio/a		haughty, badly erm since, as ailure o hit t is necessary uncomfortable bullying digital smartboard o improve o disturb, to annoy eisure vall o remember evision dirty o take time, to delay

			6H Knowledge organiser. My Studies	
What we	are learning th	-	9.1F ¿Cómo ser buen estudiante?	A T
 A. Giving your opinion about different subjects B. Talking about your studies C. Talking about your school life and daily routine D. Talking about school rules and uniform E. Translating into English 		studies school life and daily I rules and uniform	abrir to open Afectar to affect el apoyo support aprender to learn los apuntes notes asistir a to attend	A I A Y A
6 Key W	/ords for this te	rm	la biblioteca library el/la compañero/a classmate	Н
1. asig 2. nota 3. apro		4. suspender 5. licienciatura 6. elegir	completar to complete Consultar to consult el debate discussion los deberes homework	A W A
9.	1G El instituto	y las asignaturas	el diccionario dictionary la duda doubt, query	Т
el arte dramático drama la asignatura subject la carrera career, university course las ciencias science la clase class la cocina cooking, food technology continuar to continue, carry on los deberes homework dejar to drop el dibujo art difícil difficult, hard divertido/a fun la educación física PE Escoger to choose el español Spanish estudiar to study fácil easy el francés French la geografía geography la historia history		a rsity course technology carry on	el ejercicio exercise entender to understand la escuela school Esperar to hope, to wait, to expect el examen, exámenes exam, exams la excursión trip faltar a clase to miss lessons la frase sentence Intentar to try interrumpir to interrupt el instituto school levantar la mano to raise your hand la literatura literature llevar to take, to carry, to wear mejorar to improve mirar to look at el mundo world necesitar to need la nota grade ofrecer to offer el ordenador computer organizar to organise	el rer ressant se el la U el pi la se S u el
las matemáticas maths práctico/a practical próximo/a next la selección choice Útil useful			la palabra word la pantalla screen participar to take part pedir to ask for, to request pegado/a a glued to perder to lose, miss la pizarra blackboard la pizarra interactiva smartboard Preguntar to ask el/la profesor(a) teacher el progreso progress la prueba test Repasar to revise	la

Key Verbs					
Aprobar	<u>Elegir</u>	Suspender		<u>Estudiar</u>	Pensar
To pass	To choose	To fail		To study	To think
Apruebo	Eligo	Suspendo		Estudio	Pienso
I pass	I choose	I fail		I study	I think
Apruebas	Eliges	Suspendes		Estudias	Piensas
You pass	You choose	You fail		You study	You think
Aprueba He/she/it passes	Elige He/she/it chooses	Suspende He/she/it fail	S	Estudia He/she/it studies	Piensa He/she/it thinks
Aprobamos	Elegimos	Suspendemo	S	Estudiamos	Pensamos
We pass	We choose	We fail		We study	We think
Aprueban	Eligen	Suspenden		Estudian	Piensan
They pass	They choose	They fail		They study	They think
9.1F ¿Cómo	ser buen estud	iante?		9.1H ¿Qué tal	el instituto?
el repaso revision			el/la alumno/a pupil		
responsable responsible			antiguo/a old		
resultar en to end up with, to lead to			asustado/a frightened		
saber to know			asustar to frighten		
sacar buenas / to get good / bad grades			el atasco traffic jam, blockage		
malas notas			atento/a attentive		
serio/a serious			el aula (fem.) classroom		
las tareas homework			ayudar to help		
el trabajo work, piece of work			buscar to look for		
la tutoría tutorial			cambiar to change		
Usar to use			cansado/a tired		
el vocabulario vocabulary			conocer to meet, to get to know		
9.1H ¿Qı	ié tal el institut	o?	contento/a glad, happy contestar to answer el curso school year, course		
preocupar to worry la sala de informática IT room sencillo/a simple Sentirse to feel usar to use el viaje journey la zona área			los d deter distin la em enco encir enco explit feo/a el gir hamt el idit inme el lat largo mejo nervi el pa	eberes homev iorado/a dilap ito/a different noción exciter cionante exciti na on top ntrar to find car to explain ugly nnasio sports oriento/a hung oma language nso/a immens poratorio labor /a long r better oso/a anxious	work idated, shabby hent ng hall, gym ry se atory s, nervous he school yard,

Translation Practice. G -	blue F – orange H - Green
Irene porque	Irene failed because she
estudió muy poco	studied very little
No practicamos	We don't practise much
atletismo.	athletics.
Cuando de	When we change class
clase hay mucha gente	there are too many people
No bastantes	We don't have enough
ordenadores	computers
El instituto está	The school is too far
lejos	away
Hay posibilidades	There are few possibilities
de estudiarlo	to study it
Hay llevar uniform	You have to wear a uniform
No usar el móvil	We cannot use mobile phones
No fumar	You must not smoke
Me gustaría para ir al colegio	I would like to put makeup on to go to school
Soy educado y	l am polite and considerate
Odio los deberes	I hate doing homework at
en casa	home
Hay muchas entre los dos	There are many differences between the two
Las aulas ser	The classrooms ought to
más grandes	be bigger
Debería más	There ought to be more
ordenadores	computers
Deberían una piscina	They ought to build a swimming pool
He mis	l have finished my
estudios	studies
Han a casa	They have returned home

Key Question:	s: Answer the following in your own words. Use these model answers			
¿Qué crees que es lo peor / lo mejor aspecto del instituto?	El mejor aspecto del colegio es porque El peor aspecto del colegio es porque			
¿Qué cambiarías de tu colegio si tuvieras la oportunidad?	Si tuviera la oportunidad, cambiaría/me gustaría cambiar las reglas. Me gustaría cambiar el uniforme porque me parece que es tan feo, me gustaría cambiar las reglas porque son demasiadas estrictas, me gustaría cambiar unos profesores porque son tan antipáticos			
En tu opinión, ¿cuáles son las características más importantes de un buen profesor?	En mi opinión, un buen profesor es siempre simpático, nunca malhumorado, es de vez en cuando gracioso, es comprensivo y cariñoso, es siempre alegre y no es nunca antipático			
¿Cómo es tu colegio, las reglas, los edificios, las instalaciones?	Mi colegio es un colegio grande que tiene circa ochocientos alumnos. Está en las afueras de Swindon en los barrios de Pinehurst y Penhill. Tenemos una biblioteca nueva, una cantina acogedora, un patio grande En el colegio no debes comer chicle, no debes acosar, no tienes que gritar, no deberías comportarse mal En el colegio tienes que comportarse bien, llevar el uniforme, ir al baño solo durante el recreo, llegar al colegio a hora			
Key Grammar				
tense). Always remove the –AR, -ER, -IR endings first	Remember the preterite (past) tense endings for –AR, -ER, -IR verbs. They are: -AR: -é, -aste,-ó, -amos, -astéis, -aron -ER: -í, -íste, -ió, -imos, -istéis, - ieron -IR: -í, -iste, -ió, -imos, -istéis, - ieron			
('would like to' tense).	Remember the conditional ('would') tense endings for -AR, -ER, -IR verbs. They are: -AR, -ER, -IR: -ía, -ías, -ía, -íamos, -íais, -ían			
	Voy a casarme = I'm going to get married Va a discutir con su padre = He / She is going to argue with his/her father			
Perfect Tense ('have done')Formed with the verb 'haber': he, has, ha, hemos, habéis, han + p participle: -ar: -ado -er/ir: -ido e.g. He estudiado = I have studied'haber':				

Y10 Computer Science – Term 3 & 4 Fundamentals of programming Fundamentals of Data Representation

Functions / Procedures / Subroutines

```
#defining the function
def greeting_function():
    name = input("Please enter your name: ")
    print(name+",","I like it.")
```

#calling the function
greeting_function()

Please enter your name: Mr.Weston
Mr.Weston, I like it.
>>>

<u>String Manipulation</u> Using .upper() .lower() methods.

```
userName = input("Enter lowercase name: ")
userName = userName.upper()
print(userName)
Enter lowercase name: mr.weston
MR.WESTON
```

Concatenation (merging strings together).

firstName = input("Enter first name") lastName = input("Enter last name") fullName = firstName + lastName print(fullName) Enter first nameSamuel Enter last nameWeston SamuelWeston userSentence = input("Enter a sentence") sentenceList = userSentence.split() print(sentenceList) Enter a sentenceSphinx of black quartz, judge my vow ['Sphinx', 'of', 'black', 'quartz,', 'judge', 'my', 'vow']

Using .split() to put each word into a list.

Using .replace("wordToReplace", "wordReplacing") to replace individual words in a string.

```
userSentence = input("Enter a sentence for judgement")
judgedSentence = userSentence.replace("here", "leaving")
print(judgedSentence)
```

Enter a sentence for judgementI am here I am leaving

<u>Text Files</u>

```
#setting the file which needs to be opened
        fileName = "greeting.txt"
        #instructing the program to open the file in "r" reading mode.
        fileOpen = open(fileName, "r")
        #reading and then printing the file
        fileRead = fileOpen.read()
                                      Hello there!
        print(fileRead)
                                      Good morning!
                                     Hi everyone!
        #opening the file in "a" append mode.
        fileOpen = open(fileName, "a")
        #adding a greeting at the end, on a new line "\n"
        fileOpen.write("\nGreetings!")
        #closing the file when we are done with it
        fileOpen.close()
                                   greeting - Notepad
                                  File Edit Format View Help
                                 Hello there!
                                 Good morning!
                                 Hi everyone!
                                 Greetings!
     #If the file doesn't exist, you can make it using open()
     newFile = open("Newfile.txt", "w")
     #writing to the new file and then closing it to save changes
     newFile.write("Life as a file is great!")
     newFile.close()
                                 Newfile - Notepad
                                File Edit Format View Help
                                Life as a file is great!
            Validation
          userPassword = str(input("Enter password: "))
          passwordLength = len(userPassword)
          if passwordLength < 8:
             print("Password too short")
                                          Enter password: pencil
          elif passwordLength >= 8:
                                          Password too short
             print("Password accepted")
                                          >>>
                                          = RESTART: C:/Users/samu
                                          tion.py
                                          Enter password: pencils!
                                          Password accepted
   #put all your program code here (indented) in order to catch any errors when they arise
   prin("Everything is fine")
#the catch to print an error message and end the program gracefully
except:
   print ("An unhandled exception occured.")
                             An unhandled exception occured.
```

>>>

Y10 Computer Science – Term 3 & 4 Fundamentals of programming Fundamentals of Data Representation

Number Bases

Three common bases in computer science.

Decimal / Denary – Base 10, Our normal number system.

Binary – Base 2, used by Computers.

Hexadecimal – Base 16, easier for humans to understand and work with than binary and relates more to binary than denary does.

DECIMAL	HEX	BINARY
Θ	Θ	0000
1	1	0001
2	2	0010
3	3	0011
4	4	0100
5	5	0101
6	6	0110
7	7	0111
8	8	1000
9	9	1001
10	Α	1010
11	В	1011
12	С	1100
13	D	1101
14	E	1110
15	F	1111

Uses for hexadecimal: Memory locations, error codes, colour codes, MAC addresses.

Units of Memory

Bits – Binary digits. Either 1 or 0. Nibble – Four bits. Byte – Eight bits.

1,000 bytes (1,000 B)	1 kilobyte (KB)
1,000 kilobytes (1,000 KB)	1 megabyte (MB)
1,000 megabytes (1,000 MB)	1 gigabyte (GB)
1,000 gigabytes (1,000 GB)	1 terabyte (TB)
1,000 terabytes (1,000 TB)	1 petabyte (PB)

Character Sets

Assigning a binary pattern to characters. There are two primary character sets.

ASCII -American Standard Code for Information Interchange. Uses seven bits for characters, which means it can hold at maximum 128 characters

Unicode - Uses sixteen bits as standard, allowing for just over 65,000 characters. Used for different languages, scientific symbols, emojis etc.

<u>Terms</u>	
Term	Definition
Overflow Error	An overflow error occurs when the result of a
	calculation requires more bits than are in the
	available range.
Bit Depth / Sample	The number of bits we assign or are used for
Resolution	each sample
Colour Depth	The number of bits we assign for each pixel in
	an image. More bits means more colours
	available.
Pixel	Smallest part of a bitmapped image.
Bitmap Image	An image made up of a grid of pixels.
Resolution	The fineness of detail that the image contains,
	the higher the resolution, the more detail it
	contains and the higher the quality.
Compression	Compression reduces the file size by the
	reducing the number of bits inside the file.
	This makes transferring a file quicker and it
	takes up less storage.
Lossy Compression	Reduces digital file size by removing data.
Lossless Compression	Reduces digital file size without losing detail.

Run-Length-Encoding

Lossless compression where the data within the file is checked and when there is a consecutive series of the same data, they are stored as one entry instead of many. E.g. for the data below - 60, 81, 60



Huffman Coding

A form of lossless compression which makes files smaller using the frequency with which characters appear in a message. This works particularly well when characters appear multiple times in a string as these can then be represented using fewer bits.

3. Putting a Business Idea into Practice

17. Business	Aims &	Objectives
--------------	--------	------------

Which Objective?	Explanation of Objective
Specific	Businesses set very specific targets that are very clear and to the point
Measurable	Businesses set measurable targets that can be measured. For example: Business set themselves specific sales targets over a set period.
Achievable	Businesses set realistic targets that are ambitious yet achievable.
Realistic	Businesses set realistic targets that will motivate employees at the same time they will be achievable
Time- Bound	Businesses set their targets over <u>a period of time</u> as this creates a sense of excitement and urgency.

18. Aims and Objectives in Business

Objectives

Businesses have both financial and non-financial aims			
Type of Objectives	Explanation		
Financial Objectives	Profit. Sales. Market Share. Reduce costs.		
Non-Financial Objectives	Social objectives. Independence. Control.		

19. Business Revenue, Costs & Profits	
Term	Definition
Fixed Costs	Costs that don't vary just because output varies for example 'rent'.
Profit	The difference between revenue and total costs; if the
(gross/net)	figure is negative the business is making a loss
Revenue	The total value of the sales made within a set period, such as a month.
Total Costs	All the costs for a set period, such as a month
Variable Costs	Costs that vary as output varies such as raw materials

20. Business Revenue, Costs & Profits		
Term	Formulae	
Sales Revenue	Price x Quantity Sold	
Total Costs	Variable costs + Fixed Costs	
(Gross) Profit	Total Revenue – Total Costs	

21. Breaking Even	
Term	Definition
Break - Even	The level of sales at which total costs are equal to total revenue. At this point the business is making neither a profit nor a loss.
Break-even Chart	A graph showing a company's revenue and total costs at all possible levels of output
Margin of Safety	The amount by which demand can fall before the business starts making losses

GCSE Business. Paper 1.

3. Putting a Business Idea into Practice

17. Business Aims & Objectives

Achievable

Realistic

Financial Objectives

Non-Financial Objectives

Time- Bound

Businesspeople like to use the term SMART objectives	
Which Objective?	
Specific	
Measurable	

19. Business Revenue, Costs & Profits	
Term	Definition
Fixed Costs	
Profit	
(gross/net)	
Revenue	
Total Costs	
Variable Costs	

20. Business Revenue, Costs & Profits		
Term	Formulae	
Sales Revenue		
Total Costs		
(Gross) Profit		

20. Business Revenue, Costs & Profits	
Term	Formulae
Sales Revenue	
Total Costs	
(Gross) Profit	

Businesses have both financial and non-financial		
Type of Objectives	Explanation	

1 •		
ıl aims	21. Bre	aking Even
	Term	Definition
	Break - Even	
	Break-even Chart	t
	Margin of Safety	

18. Aims and Objectives in Business

22. The Importance of Cash		
Question	Answer	
Why does Cash matter to a Business?	Cash matters because, without it, bills go unpaid and a business can fail. If you have no cash, you can't pay suppliers or employees.	
Why is cash important to a business?	Cash is required to pay suppliers, employees or other costs. Typical overheads include: Salaries/ Rent and Rates/ Utilities and Bills	
What is the difference between cash and profit?	Cash flow shows the immediate impact of a transaction on a company's bank account; profit shows the longer-term impact after costs have been taken into account.	

23. The Importance of Cash (definitions)			
Term	Definition		
Cash	The money the firm holds in notes and coins, and in its bank accounts		
Cash Flows	The movement of money into and out of the firm's bank account.		
Insolvency	When a business lacks the ability to pay its debts		
Overdraft	A short-term form of credit. A bank will allow a business to spend more money than it actually has.		
Overdraft Facility	An agreed maximum level of overdraft		

25. Short Term Sources of Finance		
Term	Definition	
Bank	If a company requires some short term finance they can negotiate to	
Overdraft	extend their overdraft facility with the bank	
Trade Credit	When a supplier provides goods without immediate payment – This	
	gives the business time to sell products in order to pay off the debt.	

Cash flow forecasting means predicting the future flows of cash into and out of a Business.

Successful cash flow forecasts require:

- Accurate prediction of monthly sales
- Accurate predictions of when customers will pay for the goods they have bought
- Careful allowance of operating costs and the timing of payments
- Careful allowance for <u>in flows</u> and outflows of cash

Key Term	Definition
Opening Balance	The amount of cash in the bank at the start of the month
Net Cash Flow	Cash inflow minus cash outflow over the course of a month
Negative Cash Flow	When cash outflows are greater than cash inflows
Closing Balance	The amount of cash left in the bank at the end of the month

26. Long Term Sources of Finance		
Term	Definition	
Crowdfunding	Raising Capital online from many small investors (but not through the stock market.	
Share Capital	Raising finance by selling a share of the business, Shareholders have the right to question the directors and take profit out the firm.	
Venture Capital	A combination of share capital and loan capital, provided by an investor.	
Retained Profit	Profit kept within the Business that is used for business growth.	

22. The Importan	ce of Cash	24. Cas	sh Flo	ow Forecasts	
Question	Answer	Cash flow fore	Cash flow forecasting means predicting the future flows of cash into and out		
Why does Cash matter to a		of a Business.	of a Business.		
Business?			Successful cash flow forecasts require:		
Why is cash important to a			Accurate prediction of monthly sales		
business?			 Accurate predictions of when customers will pay for the goods they have 		
			 bought Careful allowance of operating costs and the timing of payments 		
What is the difference			Careful allowance of operating costs and the timing of payments Careful allowance for in flows and outflows of cash		
between cash and profit?		Key Term		Definition	
		Opening Balance	Opening Balance		
		26. Long Terr	26. Long Term Sources of Finance		
23. The Importan	ce of Cash (definitions)	Term	Definition		
Term	Definition	Crowdfunding			
Cash					
		Share Capital			
Cash Flows					
		Venture Capital			
Insolvency					
Overdraft		Retained Profit			
Overdraft Facility					

25. Short Term Sources of Finance		
Term	Definition	
Bank Overdraft		
Trade Credit		

KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T3

Raising agents

be:

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Raising agents include

within foods, and are

usually used in baked

anything that causes rising

goods. Raising agents can

biological, e.g. yeast;

powder:

foldina.

chemical, e.g. baking

mechanical, e.g. adding

air through beating or

Functional ingredients

These are ingredients that

are specifically included in

food for additional health

probiotics - 'good'

bacteria that may have

promote the growth of

microorganisms in the

compounds that can

added vitamins and

the original food).

minerals (more than in

a positive impact on

benefits. They include:

human health:

prebiotics - food

ingredients that

sterols/stanols -

lower cholesterol: healthy fats (e.g.

beneficial

omega-3);

gut;

Food science

Functions of ingredients			
Ingredients provide a variety of			
functions in recipes.			

Carbohydrate, protein and fat Carbohydrate, protein and fat all have a range of properties that make them useful in a variety of food products.

Carbohydrates perform different functions in food. They can:

- help to cause the colour change of bread, toast and bakery products (dextrinisation);
- contribute to the chewiness. colour and sweet flavour of caramel:
- ٠ thicken products such as sauces and custards (gelatinisation).

Maillard reaction

Foods which are baked, grilled or roasted undergo colour, odour and flavour changes. This is primarily due to a group of reactions involving amino acids (from protein) and reducing sugars.

Dextrinisation

When foods containing starch are heated they can also produce brown compounds due to dextrinisation. Dextrinisation occurs when the heat breaks the large starch polysaccharides into smaller molecules known as dextrins which produce a brown colour.

Caramelisation

When sucrose (table sugar) is heated above its melting point it undergoes physical and chemical changes to produce caramel.

Gelatinisation When starch is mixed with water and heated, the starch granules swell and eventually rupture, absorbing liquid, which thickens the mixture. On cooling, if enough starch is used, a gel forms.

Proteins perform different functions in food products. They:

- aerate foods, e.g. whisking egg whites:
- thicken sauces, e.g. egg custard;
- bind ingredients together, e.g. fishcakes:
- form structures, e.g. gluten formation in bread:
- ael, e.a. lime jelly.

Gluten formation

Two proteins, gliadin and glutenin, found in wheat flour, form gluten when mixed with water. Gluten is strong, elastic and forms a 3D network in dough. In the production of bread, kneading helps untangle the gluten strands and align them. Gluten helps give structure to the bread and keeps in the gases that expand during cooking.

Gelation

Gelatine is a protein which is extracted from collagen, present in animal connective tissue. When it is mixed with warm water, the gelatine protein molecules start to unwind. On cooling, a stable, solid network is formed, trapping the liquid.

Denaturation

Denaturation is the change in structure of protein molecules. The process results in the unfolding of the protein's structure. Factors which contribute to denaturation are heat. salts. pH and mechanical action.

Aeration

Products such as creamed cakes need air incorporated into the mixture in order to give a well-risen texture. This is achieved by creaming a fat, such as butter or baking spread, with sugar. Small bubbles of air are incorporated and form a stable foam.

Fats performs different functions in food. They help to:

- add 'shortness' or 'flakiness' to foods, e.g. shortbread, pastry;
- provide a range of textures and cooking mediums:
- glaze foods, e.g. butter on carrots:
- aerate mixtures, e.g. a creamed cake mix: add a range of flavours.

Plasticity

Fats do not melt at fixed temperatures, but over a range. This property is called plasticity.

Colloidal systems

Colloidal systems give structure, texture and mouthfeel to many different products

System	Disperse	Continuous	Food
	phase	phase	
Sol	Solid	Liquid	Unset jelly
Gel	Liquid	Solid	Jelly
Emulsion	Liquid	Liquid	Mayonnaise
Solid emulsion	Liquid	Solid	Butter
Foam	Gas	Liquid	Whipped cream
Solid foam	Gas	Solid	Meringue

Food is prepared and cooked to: make the food more palatable –

- improves flavour, texture and appearance; reduce the bulk of the food;
- provide variety and interest to
- ٠ meals.

Methods of cooking food

The methods of cooking are divided up into groups. These are based on the cooking medium used. They are:

- moist/liquid methods, e.g. boiling;
- dry methods, e.g. grilling;
- fat-based, e.g. frying.

Selecting the most appropriate way of preparing and cooking certain foods is important to maintain or enhance their nutritional value.

- Vitamins can be lost due to oxidation during preparation or leaching into the cooking liquid.
- Fat-based methods of cooking increase the energy (calories) of the food
- The use of different cooking methods affects the sensory qualities of the food.

Kev terms

Conduction: the exchange of heat by direct contact with foods on a surface. Convection: currents of hot air or hot liquid transfer the heat energy to the food.

Functional ingredients: Included in food for additional health benefits. Heat transfer: transference of heat energy between objects. Radiation: energy in the form of rays.

Tenderisation

- Mechanical tenderising a meat cleaver or meat hammer may be used to beat the meat. Cutting into small cubes or mincing can also help.
- Chemical tenderisation (marinating) - the addition of any liquid to flavour or soften meat before cooking.

There are three ways that heat is transferred to food.

- Conduction the exchange of heat by direct contact with foods on a surface.
- Radiation energy in the form of ravs.
- Convection currents of hot air or hot liquid transfer the heat energy to the food.

Tasks

- Choose a recipe that you enjoy or have made recently and explain in detail the functions of the ingredients.
- Explain the function of raising agents, giving examples of recipes.







KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T3

Functions of ingredients Ingredients provide a variety of functions in recipes. Carbohydrate, protein and fat Carbohydrate, protein and fat all have a range of properties that make them useful in a variety of food products.	Gelatinisation When starch is mixed with water and heated, the starch granules swell and eventually rupture, absorbing liquid, which thickens the mixture. On cooling, if enough starch is used, a gel forms. Proteins perform different functions in food products.	Coagulation Coagulation follows denaturation. For example:	Key terms Conduction: Convection: Functional ingredients:
Carbohydrates perform different functions in food. They can: - - - -	They: - - - Gluten formation	Aeration Products such as creamed cakes need air incorporated into the mixture in order to give a texture. This is achieved by creaming a fat, such as butter or baking spread, with sugar. Small bubbles of air are incorporated and form a stable foam.	Heat transfer: Radiation: Food is prepared and cooked to: -
- Maillard reaction Foods which areundergo colour, odour and flavour changes. This is primarily due to a group of reactions involving(from protein) and reducing sugars.	Two proteins, gliadin and glutenin, found in wheat flour, form gluten when mixed with water. Gluten is strong, elastic and forms a 3D network in dough. In the production of bread, kneading helps untangle the gluten strands and align them. Gluten helps give structure to the bread and keeps in the gases that expand during cooking.	Fats performs different functions in food. They help to:	Tenderisation Mechanical tenderising
Dextrinisation When foods containingare heated they can also producecompounds due to dextrinisation. Dextrinisation occurs when the heat breaks the large starch polysaccharides into smaller molecules known aswhich produce a colour.	Gelation Gelatine is a protein which is extracted from collagen, present in animal connective tissue. When it is mixed with warm water, the gelatine protein molecules start to unwind. On cooling, a stable, solid network is formed, trapping the liquid.	Plasticity Fats do not melt at fixed temperatures, but over a range. This property is called	Chemical tenderisation (marinating)
Caramelisation When sucrose (table sugar) is heated above its melting point it undergoes changes to produce caramel.	Denaturation Colloidal systems Denaturation is the change inof Colloidal systems		ansferred to food.
Functional ingredients These are ingredients that are specifically included in for They include: probiotics – prebiotics – sterols/stanols – healthy fats (e.g. omega-3);	od for additional health benefits.	Conduction – the exchange of heat with foods on a surface. Radiation – energy in the form of ra Convection – currents of hot air or h the heat energy to the food.	ys.



Year 10 PRODUCT DESIGN Term 3



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What we are le	arning this terr	n:			E.	Impact on Pe	ople	ŤŤŤ	
A. Scales of Production C. Impact on Enterprise E. Impact on People G. Ergonomics B. Production Methods D. Anthropometric Data F. Impact on Design						nology Push	쪻	When technological discoveries are used to drive the development or creation of a product	
A. Sca	ales of Product	tion The second s	C. Impact or	n Enterprise	Mark	et Pull	• •	When products are developed or created	
Туре	How Many?	Examples	Crowdfunding	A way of raising money from large numbers of]	ζ-≯ \	to meet the needs of society or a gap in the market.	
One-off Production	1	 Towers /bridges Bespoke house Custom made clothes 	<u>لو</u> ع	people to launch a new product through websites.	Unive	Universal Design		When designs are focused on serving the broadest range of users possible, rather than trying to address individual accessibility or inclusion objectives.	
Batch Production	10s-1000s	 Baked Foods Limited Edition Socks Chairs 	Virtual marketing and retail	Promotion of products online and sharing experiences, reviews and recommendations.	Inclu	sive Design		When the designer focuses on exploring ways of serving a full spectrum of people, regardless of age, gender, and disability.	
Mass Production	10,000s – 100,000s	 Cars Bottles Microchips Plain shirts 	Cooperatives	A business that is owned and managed by it's workers, all working towards a common goal.	User	User Centred Design (US		When designers focus on the end-user's wants and needs in each phase of the design process.	
Continuous	100,00s+	Energy	Fair trade An organisation that		F.	Impact on De	esign		
Production		WaterPaperPlastic		helps workers have fair trading and working conditions in		obsolescence that w		ning products that will have a limited life and ill become obsolete and require to placed, such as disposable razors.	
B. Produ	ction Methods			developing countries	Desid	In for	Design	ning products that are more durable and have	
		ing Systems (FMS)	D. Anthropometric Data			tenance	spare	parts available to mend and maintain them, as a push bike.	
can produce dif		if needed.	The study of human measurements to ensure the products and environments are the correct size for the intended user.			Disassembly can be		a product has reached the end of its life it e taken apart and parts reused or recycled, as a school seat.	
This saves mon helping minimis products.	ey and resource e the environm	y is kept to a minimum. es in production, as well as ental impact of producing			Enviro	onmental Design	improv	ning products to be more sustainable and ving the overall environmental impact of a ct, such as paper straws.	
	t-in-Time (JIT)	J.		10	G.	Ergonomics			
This is where manufacturers only order materials, parts, etc, when needed. This can be used in any scale of production but its particularly useful for one-off production.					This is the consideration that leads to a product being designed in a way that makes it easy to use. Such as a person sitting at their computer desk or the type of water bottle they use.				

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Year 10 PRODUCT DESIGN Term 3



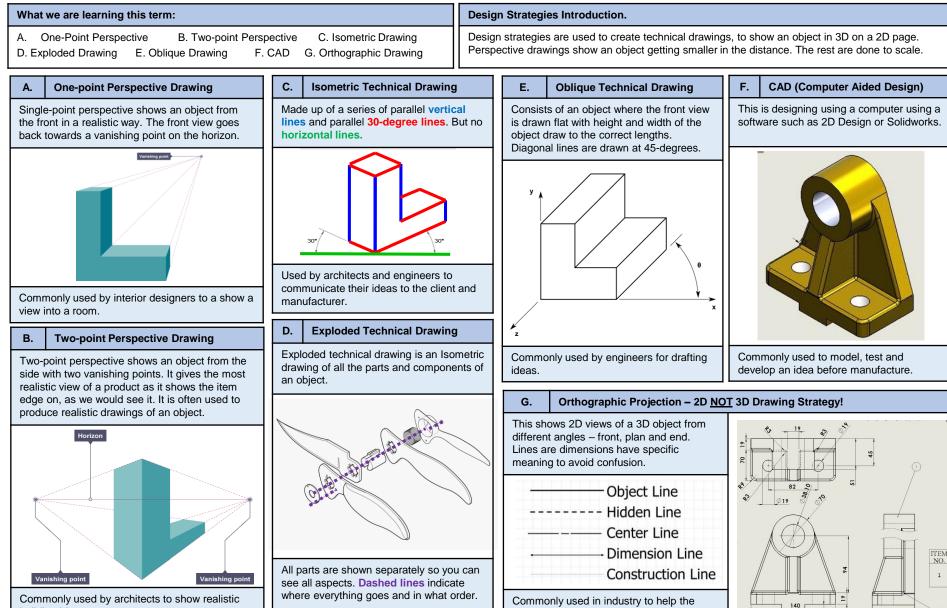
What we are learning this term:						E.	Impact on People		ŤŤŤ	
						Techn	ology Push	\$		
А.	Scales of Produc	tion	C.	Impact or	n Enterprise		Marke	t Pull	•	
Туре	How Many?	Examples	Crowd	funding					2	
One-off Production				ن في ع			Unive	rsal Design		
Batch Production			Virtual and ref	marketing tail						
Mass Production			Сооре	ratives			User (Centred Design (USI © #E	>) 0 @	
Continuous	6						F.	Impact on Design		174
Production			Fair tra	ide			Plann obsol	ed escence		
B. Pro	oduction Methods					0	Desig	n for		
◆ Flei	xible Manufacturii	ng Systems (FMS)	D.	Anthropo	metric Data			enance		
				L or of			Desig Disas	n for sembly		
	Lean Manuf	acturing								
							Enviro	nmental Design		
	Just-in-Time (JIT)	Manufacturing				_	G.	Ergonomics		



building ideas.

Year 10 PRODUCT DESIGN Term 3





manufacturer understand the design.

38.10



Year 10 PRODUCT DESIGN Term 3

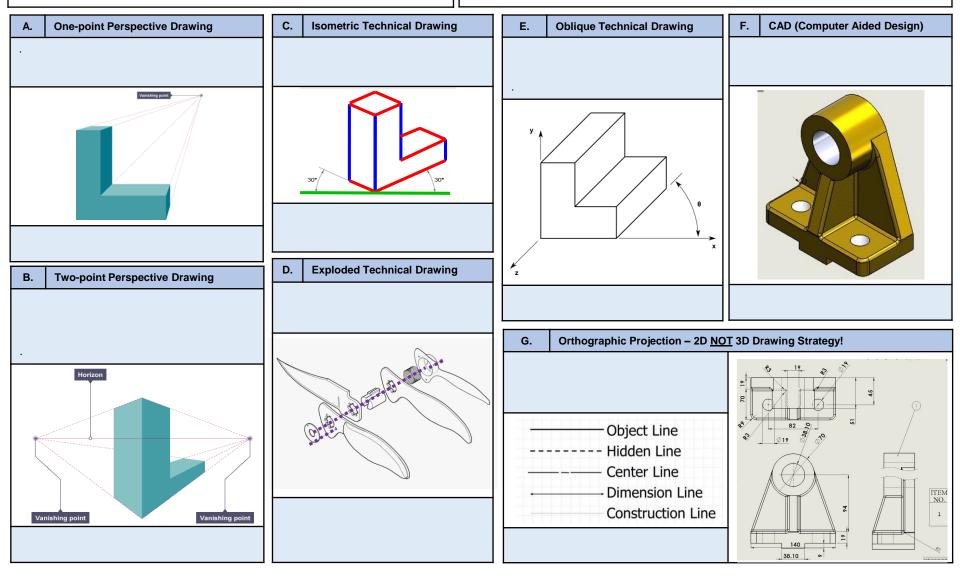


What we are learning this term:

A. One-Point Perspec	tive B.	Two-point Per	spective	C. Isometric Drawing
D. Exploded Drawing	E. Oblique I	Drawing F	F. CAD	G. Orthographic Drawing

Design Strategies Introduction.

Design strategies are used to create technical drawings, to show an object in 3D on a 2D page. Perspective drawings show an object getting smaller in the distance. The rest are done to scale.







What we are learning this term:

- A. Understanding professional works
- B. What is a professional work
- C. What is a practitioner
- D. How do we analyse a performance
- E. What are physical skills
- F. What are interpretive skills
- G. Three different performance styles / genres

6 Key Words for this term

1 Practitioners	4 Performance material
2 Physical skills	5 Analyse
3 Interpretive skill	6 Intentions

A.	Key question – What is the artistic purpose of a performance work?								
When watching a professional performance, the key questions you need to think about are the following How do we Explore artistic purpose?									
	Explore artistic purpose (across all three disciplines/styles)								
to educat	e								
to inform									
to enterta	in								
to provok	to provoke								
to challenge viewpoints									
to raise av	to raise awareness								
to celebra	to celebrate.								

Component 1 – Key focus

Α.

In this component of the qualification students will develop their understanding of drama by examining the work of existing practitioners and the processes used to create performance. Students should experience a range of work across the discipline of drama by viewing recorded and/or live work. While this is primarily a theoretical study of the performing arts practical investigations, students will be working at developing practical skills through workshops and links with Component 2 Developing Skills and Techniques in the Performing Arts, to engage in primary exploration of specific repertoire.

C.	Key question from Assessment objectives									
2. Wha 3. How	at are physical skills at are interpretive skills / do we use these skills practically? / do we IMPROVE on these skills?		 What is a professional work What is a practitioner How do we analyse a performance What are a practitioners creative inte 							
G.	Key learning aims from Component 1	E	Ξ.	Keywords						

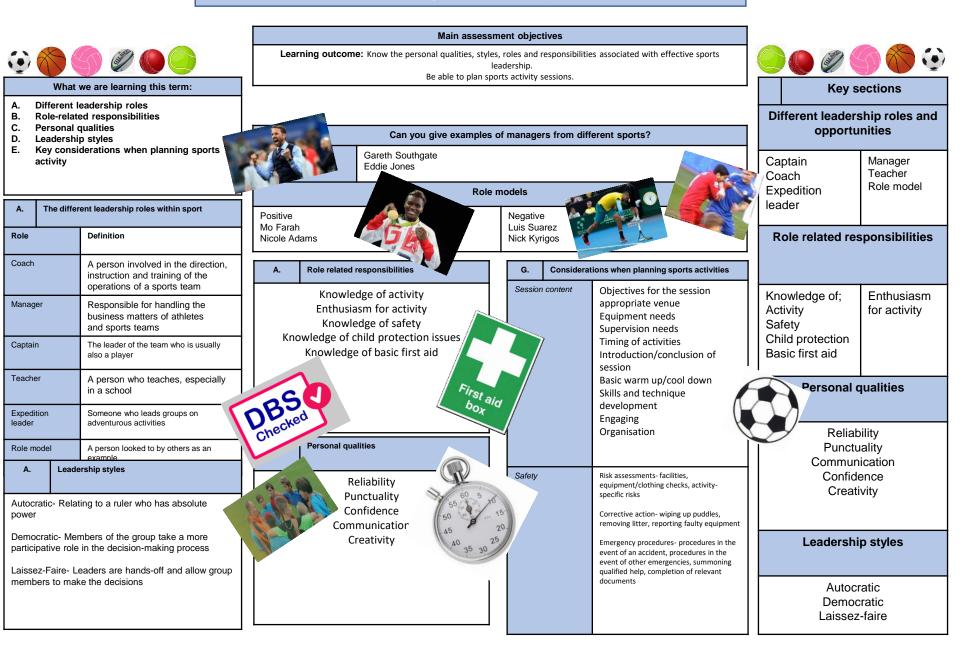
Learning aim A: Examine professional practitioners' performance work	A1: Professional practitioners' performance material, influences, creative outcomes and purpose Examine live and recorded performances in order to develop	Practitioners	A professional theatre maker who creates in a specific style led by a specific theatre ideology.		
	understanding of practitioners' work with reference to influences, outcomes and purpose. Focus on thematic interpretation of particular issues and how artists communicate their ideas to an	Performance material	The practical work that a practitioner creates for performance.		
	audience. Roles and responsibilities in theatre.	Creative Intentions	The ideas behind the choreography, why the choreographer choose to create the work.		
Learning aim B:	Dransana usad in performance	Review	Look over your current work and the work of others and be able to review and comment on your own and others practice		
Explore the interrelationships between constituent features of existing performance material	 Processes used in performance Responding to stimuli to generate ideas for performance material. Exploring and developing ideas to develop material. Discussion with performers. Setting tasks for performers. Sharing ideas and intentions. 	Analyse/ Evaluate	Watch and then analyse your own performance and the work of others and giving comments and judgements on what you see		
	 Providing notes and/or feedback on improvements. 	Influences	How the practitioner has been influenced by others, their experiences, their training and how this has affected the work they create.		
		Physical skills	The physical attributes that an actor uses, stamina, strength, flexibility, control, to dance with technical accuracy.		



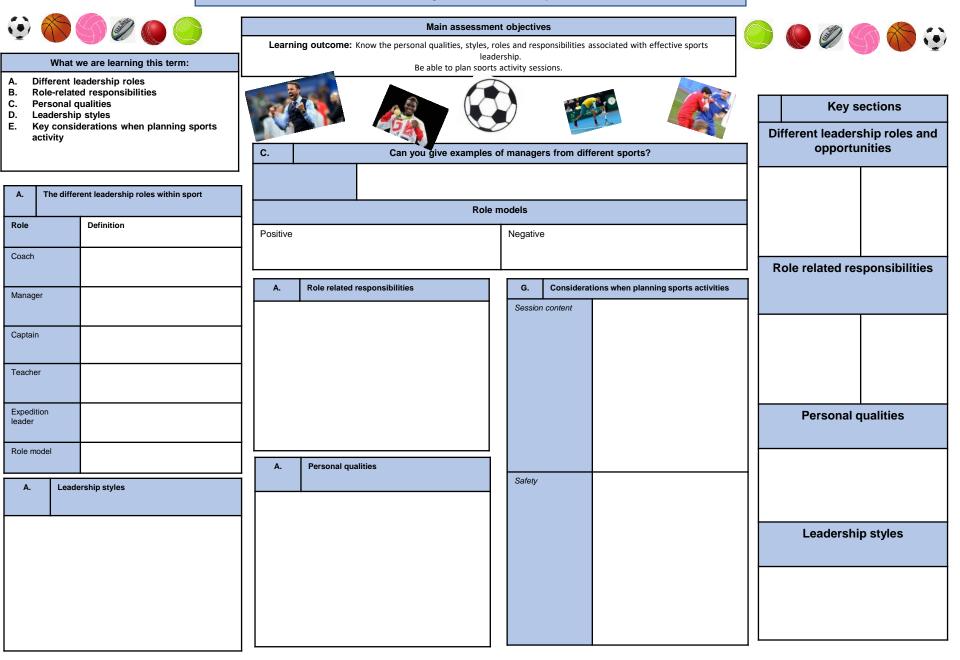
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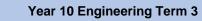


What we are learning this term:	C. Key question from Assessment objectives								
 A. Understanding professional works B. What is a professional work C. What is a practitioner D. How do we analyse a performance E. What are physical skills F. What are interpretive skills G. Three different performance styles / genres 	1. What are phy 2. What are inte 3. How do we u	vsical skills	 1. What is a professional work 2. What is a practitioner 3. How do we analyse a performance 4. What are a practitioners creative intentions 						
6 Key Words for this term	G. Key learning aims from Component 1			Keywords					
1 Practitioners 4 Performance material 2 Physical skills 5 Analyse 3 Interpretive skill 6 Intentions	Learning aim A: Examine	A1: Professional practitioners' performance material, influences,	Practitio	ners					
A. Key question – What is the artistic purpose of a performance work?	professional practitioners' performance work	creative outcomes and purpose Examineand performances in order to develop							
When watching a professional performance, the key questions you need to think about are the following How do? (across all three disciplines/styles) including:		of practitioners' work with reference tos, os and pse. Focus oni of particular i and how artists c te their ideas to an e.	Perform	ance material					
to to to to		Roles and responsibilities in theatre.	Creative	Intentions					
to to			Review						
A. Component 1 – Key focus	Learning aim B:	Processes used in performance							
In this component of the qualification students will develop their understanding of drama by examining the work of	Explore the interrelationships between constituent features of existing performance material	Responding toto generate ids for performance material. Exploring and developing ideas to develop material. Don with performers. Settingfor performers. Sng ideas and intentions.	Analyse	/ Evaluate					
practical investigations, students will be working at developing practical skills throughs and links with Component 2 and Tes in the Performing Arts, to engage in primary exploration of specific repertoire.		Providing and/or feck on impnts.	Influenc	es					
			Physica	l skills					



Year 10 Cambridge National- Leadership- Term 3





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What we are learning this term:					D. Marking and measuring tools			
B. Manufa	acturing processes D. Marking and measuring to					object to be m	er – Used by placing it inside the heasured and expanding the arms. inside of a hollow space.	
A. Risk Assessment	Health & Safety Image: Comparison of the state of	C.	Isometric		R	to the outside	per – Used by closing the arms on of the object to be measured. ow it to reach around protruding oject.	
Signage Signage is the word used for all the signs that you may see in a workshop environment. sowing how to translate and understand the signs in a workshop is vital when dealing with potentially dangerous equipment and processes. Mandatory sign-Specific instruction on behaviour Prohibition sign-Prohibiting or actions Warning sign-Giving warning of Warning sign-Giving warning of		Top From From Right Side 3D Representation 2D Orthographic Projection Isometric Drawing 2D Orthographic Projection			aff 1	Dividers - The ends of these legs are very sharp, so it can scratch into surfaces. Is used for measuring, transferring, or marking off distances onto materials.		
					scratching to allows the us		enny" calliper – One leg has a of while the other has a notch. This er to hook the tool to the edge of a d slide it along to make marks om the edge.	
					Can measure		ber – The most versatile calliper. depth, inside measurements, and urements of objects. May also have ay.	
	hazard or danger	-			. Materials and pro	operties		
B. Ma	nufacturing processes 🕍				Strength		Ability of a material to withstand compression, tension and shear	
	re free standing machine tools that use high otors to rotate drill bits at varying speed				lardness		Ability to withstand impact without damage	
	Milling machine			T	oughness		Materials that are hard to break or snap are tough & can absorb	
A milling machine is a device that rotates a circular cutting tool that has a number of cutting edges. The workpiece is held in a vice or similar device clamped to a table that can move in directions. X, Y & Z axis		The symbol \emptyset on this dimension represents Diameter – so it is telling us how wide the circle is		Malleability			shock Being able to bend or shape easily would make a material easily malleable	
	Centre lathe		overall.		Ductility		Materials that can be stretched	
A centre lathe is used to manufacture cylindrical product /objects and is 'turned' to create different shapes. Different cutting tools can be used such as facing , parting and knurling .		The letter R on this dimension tells us the Radius of the curve or circle – the distance from the centre to the outside		Elasticity			are ductile Ability to be stretched and then return to its original shape	

What we are learning this term:			D.	Tools & Equipment
A.Health & SafetyC. OrthographicE. M.B.Manufacturing processesD. Tools & Equipment	aterials ar	d properties		
A. Health & Safety	C.	Orthographic	(
Risk Assessment	product	dy of human measurements to ensure the s and environments are the correct size ntended user.		
Signage Signage Specific instruction on behaviour Prohibiting or actions information on	23 25	Plan View		A constant of the second secon
Giving warning of hazard or danger First ald exits, first aid etc B. Manufacturing processes Pillar drill	45	Front Elevation Side Elevation	E M Stren	
Milling machine			Tour	hness
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Centre lathe	∥			
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Year 10 BTEC Health and Social Care- <u>Component 1</u>: Human Lifespan Development. LAA

What we are learning this term:								
A. Key words		В	What are the main life stages?		c	What are the 4 areas of growth and development (PIES)?		
B. What are the m C. What are the 4	areas of growth and	Age Group	Life Stage	Developmental Characteristics and Progress	Phys			
development (F D. How do Humar	PIES)? ns develop physically (P)?	0-2 years	Infancy	Sill dependent on parents but growing quickly and developing physical skills.	Development (P)		in the mobility of the large and small muscles in the body that	
A. Key words for	r this Unit	3-8	Early	Becoming increasingly independent,	1	Ш Ш	happen throughout life.	
Characteristics	Something that is typical of people at a particular life stage.	years	Childhood	improving thought processes and learning how to develop friendships.	Intellectual Development		I = how people develop their thinking skills, memory and	
Life stages	Distinct phases of life that each person passes through.	9-18 years	Adolescence	Experiencing puberty, which bring physical and emotional changes.	(I)	E.	language.	
Growth	Increased body size such as height, weight.	19-45 years	Early Adulthood	Leaving home, making own choices about a career and may start a family.	Deve	otional elopment ⓒⓒ	E = how people develop their identity and cope with feelings.	
Development	Involves gaining new skills and abilities such as riding a bike.	46-65 years	Middle Adulthood	Having more time to travel and take up hobbies as children may be leaving home;	(L) Soci	98	S = describes how people develop	
Gross motor development (G)	Refers to the development of large muscles in the body e.g. Legs	65+	Later Adulthood	beginning of the aging process. The aging process continues, which may affect memory and mobility.	Deve		friendships and relationships.	
Fine motor development (F)	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 development	Think through and express ideas	0-2						
Contentment	An emotional state when people feel happy in their environment, are cared for and well loved		 Fine Motor Development (F) = hold a rattle for short time, reach for an item, pass item from one hand to hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn page 					
Self-image	How individuals see themselves or how they think others see them	3-8	 G = ride a tricycle, catch a ball with two hands, walk backwards and step to the side, bounce a ball, run on ride a bike, catch a ball with one hand, balance along a thin line. F = hold a crayon to make circles and lines, thread small beads, copy letters and shapes with a pencil, mai detailed models with construction bricks, joined up writing, use a needle to sew. 					
Self-esteem	How good or bad an individual feels about themselves and how much they values their abilities.	9-18	 Girls = pube Boys = voic 	egins, uterus and vagina grow. roduce sperm.				
Informal relationships	Relationships formed between family members	19-45	 Both = pubic and underarm hair, growth spurts. Physically mature, sexual characteristics are fully formed, peak of physical fitness, full height, women at most 					
Friendships	Relationships formed with people we meet in the home or in situations such as schools, work or		 fertile. Later in the life stage people may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down 					
Formal	clubs relationships formed with non-	46-65	 46-65 People may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down. Women go through the menopause – when menstruation ends and they can no longer become pregnant. Men may continue to be fertile throughout life but decrease in sperm production in this life stage. 					
relationships	family/friends – such as teachers and doctors.	65+	Women's ha	air becomes thinner, men may lose most of their	hair, sk	in loses ela	asticity and wrinkles appear, nails	
Intimate relationships	romantic relationships.		 hard and brittle, bones weaken, higher risk of contracting infections disease and illness. Stamina, reaction time, muscle and senses (hearing, sight, taste) all reduce. 					

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What we are learning this term:								
Α.	A. Key words			What are the main life stages?				e the 4 areas of growth and ment (PIES)? Explain them.
B. What are the main life stagesC. What are the 4 areas of growth and		Age Group	Life Stage	Stage Developmental Characteristics and Progress				
	development (PIES)? D. How do Humans develop physically (P)?		0-2			Physi Deve (P)	lopment	
Α.	Key words fo		years			(F)		
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					
	s motor lopment (G)		65+ years			Socia Deve (S)		
	motor lopment (F)						\sim ·	
Lang	uage		D.	How do huma	ns develop physically (P)?			
	lopment		0-2					
Cont	entment		3-8					
Self-i	image		3-0					
Self-	esteem		9-18					
Inforr relati	mal onships		1 9-4 5					
Frien	idships							
			46-65					
Form relati	nal onships							
Intim relati	ate onships		65+					

Wha	What we are learning this term:			How do humans develop emotionally (E)?					
		umans develop intellectually (I)?			Infancy and Early Childhood	Adolescence and adulthood			
G.	G. How do humans develop socially (S)?		Bonding	g and att	ttachment achment describe the emotional ties an individual	Self-image and Self-esteem Self-image is heightened during adolescence because of the physical changes we experience. Our self-esteem can change			
E.	l	At birth brains are already well	forms with others. It starts in the first year of life between infants and their main carer because that person fulfils the infants needs which makes them 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	Security For infants and young children, security is mainly the feeling of being cared for, being safe and loved – it is closely linked with attachment.			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.	Contentment Infants and young children are content if they have had enough food, love, are clean and dry and all other needs are met.			Contentment When people feel discontented with aspects of their life – for example, relationships or work – their emotions can be negatively affected.			
Early childhood		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)?				
Adol	escence	During this time abstract thought is developed – thinking logically and solving complex problems are	Life Sta	age	Types of relationships and social development				
71001	00001100		Infancy	/	 Solitary Play - From birth to 2 years, infants te carer; they may be aware of other children bu 	tend to play alone although they like to be close to their parent or ut 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.		od	game; they are not socialising or playing with • Cooperative or social play – from 3 years upw	by playing next to other children but are absorbed in their own other children. ards, children start to play with other children; they have developed bgether; they often make up games together, such as being a			
Early and Middle Adulthood		By these life stages most adults have a good range of general knowledge. They use this knowledge and	Adoles	cence	 People become more independent and build more informal and formal relationships. Social development closely linked to emotions. Often strongly influenced by peers – 'peer group pressure'. 				
		experience to solve problems that they come across in their personal and work lives.	Early adultho	bod	 Increased independence means greater control of decisions about informal relationships. People may be developing emotional and social ties with partners and their own children. Social life often centred on the family but social skills are required to build and maintain formal relationships. 				
Late adul	r thood	During this life stage people continue to learn and develop intellectually, however, their speed of thinking and	Middle adultho		 Children have often left home, but there are li Social circles may expand through travel, spe 	kely to still be strong family relationships. nding more time on hobbies or joining new groups.			
	f	memory may decline. This may affect their ability to think through problems and make logical decisions.	Later adultho	bod	 Retired by this stage and so may enjoy more social time with family and friends or join new groups. However, later in the life stage people may begin to feel isolated if they struggle to get out or if partners and friends pass away. 				

What we are learning this term:			F. How do humans develop emotionally (E)? Explain each.					
	E. How do humans develop intellectually (I)?F. How do humans develop emotionally (E)?G. How do humans develop socially (S)?		Infancy and Early Childhood			Adolescence and adulthood		
G.			Bonding and Attachment			Self-image and Self-esteem		
Ε.	How do h	numans develop intellectually (I)?						
Infar	ncy							
			<u>Securi</u>	ty		Security		
F	J- \							
			Conte	ntment		Contentment		
Early child	y Ihood		Independence			Independence		
1	§							
			G. How do humans develop socially (S)?		How do humans develop socially (S)?			
			Life St	age	Types of relationships and social development			
Ado	lescence		Infancy	/				
Į			Early childho	bod				
			ormane	,ou				
Earl	y and		Adoles	cence				
Midd Adul	dle Ithood		Early					
	RR		adultho	bod				
Late adul	r thood		Middle adultho					
f 1		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	nfidence in building friendships socialize with other and build wider relations						
how much Include		and becoming independent.	I						
cohol or	J. How does lifestyle affect development?								
mething	Lifestyle choice	s include; diet, exercise, alcohol, smokin	ng, sexual relatio	nships and illegal drugs, appearance.					
ence that			Negative lifestyle choices lead to: • Being overweight or underweight • Lack of energy • Ill health						
nder.	 Good health Emotional set 	ليك	 Negative self-image Sexually transmitted diseases (STDs) Unplanned pregnancy 						
ehaviour.	Our appearance 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			Negative self-image						
ople	 Positive self-image: Feel good about yourself. Healthy hair, skin, nails and teeth Big social circle. Negative self-image Low self-confidence Can lead to eating disorders e.g. anorexia 								
individual	 High self-este High self-con 	em.	Can Can	lead to self-harm ative impact on building relationships- social circle					
ind income.				reases.					

What we are lear	ning this term:	I.	How do	physical factors affect develop	ment?			
 H. Key words I. How do physical factors affect development? J. How does lifestyle affect development? K. How do social and cultural factors affect development? L. How do relationships and isolation affect development? M. How do economic factors affect development? 			l ment ual ment	<u>Genetic Disorde</u>	ers		Disease and Illness	
H Key words:								
Genetic inheritance		Emotion Develop						
Genetic disorders		Social Develop	ment					
Lifestyle Choices				s lifestyle affect development? include; diet, exercise, alcohol, sm	oking sexi	ual relationshi	ns and illegal drugs, appearance	
Appearance				choices lead to:	<u> </u>		e choices lead to:	L.
Factor		• • • •		Ŀ				ν
Gender role		•			•			
Culture		Our appe	earance in earance ca	ncludes: body shape, facial features an affect the way we view ourselves	s, hair and s- self-imag	nails, persona je	al hygiene and our clothing.	
Role models			self-imag		رحم	Negative se	elf-image	Γ.
Social Isolation		• •				•		U
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 culture or religion because it affected their: • Values : how they behave			K. How do social and cultural factors affect development?L. How do relationships and isolation affect development?M. How do economic factors affect development?				
Lifestyle choices: diet, a Positive affects of a	Negative affects of a persons	L	How do relationships and isolation affect development?	М	How do economic fa	actors affect development	
 persons culture/religion: A sense of security and belonging from sharing the same values and beliefs with others. Good self-esteem 	 Sense of security and belonging from tharing the same ralues and beliefs vith others. Feeing discriminated against by people who do not share their religion/culture which leads to low self-image 		In adolescence, young people often argue with parents because they want more independence- negative affect on family relationships- can lead to isolation from them.	giv far	ving enough money es individuals and their nilies feeling of content d security	Not having enough money causes stress and anxiety.	
through being accepted and valued by others	Feeing excluded and isolated because their needs like diet, are not catered for.	2	In later life, older people might need to rely on their children for support. This then has a positive affect on their development because all their need are catered for.	me	ving enough money ans that the whole hily is eating healthy.	Not having enough money can mean that the family is not about to eat well balanced diet, and this has a negative	
Community refers to: local area where people live, school, religious group or hobby clubs. They have common values and goals.			Relationships are important because they provide emotional security, contentment and positive self- esteem.		effect on their physi development		
Belonging to a community:Not belonging to a community:• Brings sense of belonging essential for emotional development.Not belonging to a community:• Minimal contact with others- isolation		4	The breakdown of personal relationships can have a negative effect on persons PIES development:	en the	Elderly people rely on state pension to live which enough and have to cut down on travel, shoppin therefore it speeds their aging process and lead health decline.		
Building and maintaining relationships- social development	Anxiety leading to depression Making negative lifestyle		Low self-esteem, loss of confidence, stress.		ing in good housing h open spaces:	Living in a poor housing with cramped and damp	
 development Feeling of security. Increases self-image and self-confidence Slow self-image and Slow self-image and 	5	Isolation can happen when individuals do not have the opportunity of regular contact with others. They have no one to share their feelings, thoughts and worries with resulting in feeling insecure and anxious.	•	Feeling good about themselves Be more likely to stay healthy, Space to take exercise Feel safe ad secure	 <u>conditions:</u> Have low self-esteem and self-image Be more likely to experience ill health Be lesson likely to 		
Self-confidence Traditionally, men and women had distinctive responsibilities and expectations which for their gender called gender roles . However, nowadays UK equality legislation stops			Isolation can happen because they live alone, are unemployed or retired, are discriminated against or have an illness or a disability.	•	Warmth	exercise Anxious and stressed. 	
 People being discriminated against because of their gender. What happens when people face discrimination because of gender: They might be excluded from a group They may be refused promotion at work They may be expected to carry out a particular role They may be paid less. 			People have role models- infants learn by copying others, and adolescence base their identity on their role models. Role models can influence how people see themselves compared to others and their lifestyle chices0 can be positive or negative.	ne po pe be mo	terial possession like a w phone or coat has a sitive effect on the rsons development cause 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?				
N. What are O. How do p	e life events? people deal with life events?	Individual	 The effects of life events vary from person to person based on how they deal with their new situation. Some people react to able to react to life events positively, others find it more difficult due to a range of factors. 				
supporte	ealing with life events d? are life events?	Factors	 Factors that may affect how people cope with life events: age, other life events happening at the same time, the support they have, their disposition (their mood, attitude and general nature), their self-esteem, their resilience (how quickly they recover). 				
N. What	are me events?	Adapting	Adapt – to adjust to new conditions or circumstances.				
Life Events	Life events are expected or unexpected events that can		 Expected on unexpected life events can often force people to make changes to their lives. Individuals must find their own way to adapt to the changes that life throws at them. 				
	affect development. Examples include starting nursery, getting married or becoming ill.	Resilience	 Resilience – a person's ability to come to terms with, and adapt to, events that happen in life. Resilience is stronger in people who have a positive outlook on life, accept that change happens, has supportive family and friends and plans for expected life events. 				
Expected Life Events	Expected life events are life events that are likely to happen. Examples include	Time	 Sometimes people need a long time to adapt to unexpected life events. It can take time for people to move on from and accept difficult changes in their life. 				
	starting primary school aged four and secondary school	Ρ.	How is dealing with life events supported?				
Unexpected	aged 11. Unexpected life events are	Types of Support	How this helps individuals deal with life events				
Life Events	events which are not predictable or likely to happen. Examples could include divorce and bereavement (the	Emotional Support					
Physical Events	death of a loved one). Physical events are events that make changes to your body, physical health and mobility.	Information and Advice	Life events, particularly unexpected ones, can cause people to feel like they do not know what to do. Information and advice can help people to have a better understanding of their situation, which allows them to deal with it more successfully. Information and advice help them know where to go for help, the choices than are available to them and how to make healthy choices.				
	Examples include illnesses such as diabetes and injuries and accidents such as car accidents.	Practical Help	 Financial help – an individual may need money to help them adapt to a life change i.e. money to pay for a stair lift if their mobility has been effected. Childcare – an individual may need support looking after their children i.e. a lone parent after a divorce that needs to go to work. 				
Relationship Changes	Relationship changes could be new relationships such as the		 Transport – an individual may need support with transport if they have mobility problems i.e. a car could be adapted to support a person who has had an accident and can no longer walk. 				
Ŭ	birth of a sibling, a new friendship or romantic relationship. Relationship changes can also be changes	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	to existing relationships such as divorce.	Professional Support	Formal support may be provided by statutory care services (the state), private care services and charitable organizations. Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and health specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life changes				
Circumstance s	different situations that arise in our life that we must deal with. Examples include redundancy (losing a job), moving house or retirement (finishing work in later adulthood).	Voluntary Support	and emotions, get advice and information or change their lifestyle. Organizations offering voluntary support are charities, community groups and religious groups. At voluntary support services, many staff are volunteers (they work for free), but they also employ qualified people who are paid by donations. Community groups work at a local level to meet the needs of people living in a specific neighbourhood i.e. foodbanks. Religious groups are formed by people who share the same religious or spiritual beliefs but they help all people in need regardless of their beliefs and background i.e. a church run soup kitchen for the homeless.				

What we are learning this term:			О.	How do people deal with life events?
N. What are life events?O. How do people deal with life events?P. How is dealing with life events		Individual		
r. r s	upported	1?	Factors	
N.	N. What are life events?		Adapting	
Life Events			Resilience	
Expec	ted Life		Time	
Events	6		P.	How is dealing with life events supported?
			Types of Support	How this helps individuals deal with life events
Unexpected Life Events			Emotional Support	
Physical Events			Information and Advice	
			Practical Help	
Relationship Changes				
e nang	,		Informal Support	
			Professional Support	
Life Circun s	nstance		Voluntary Support	

