100% book - Year 10 Booster 10C/3

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



Term 4

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

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

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



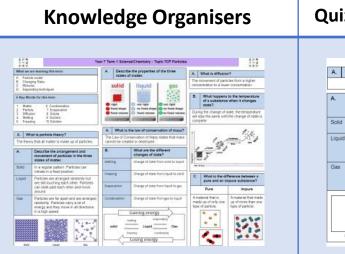








How to use your 100% book of Knowledge Organisers and Quizzable Organisers

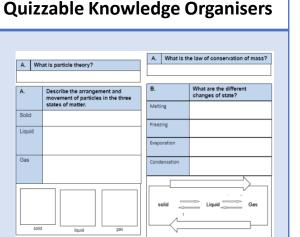


Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

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

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

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



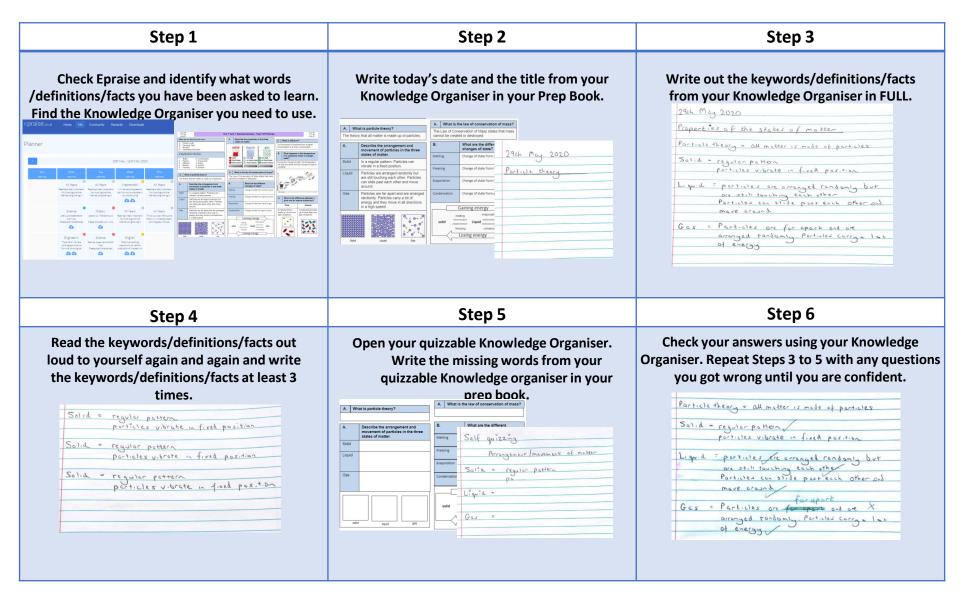
These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get

Expectations for Prep and for using your Knowledge Organisers

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

How do I complete Knowledge Organiser Prep?



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

		ENGLISH –Poetry cluster 3: The Problem with Power- Sets 6-7			
Poem	Context	Events in the poem	Message	Form/ structure	
Kamikaze- Beatrice Garland	 During WW2, the term 'kamikaze' was used for Japanese fighter pilots who were sent on suicide missions. They were expected to crash their planes into enemy warships. The word 'kamikaze' literally translates as 'divine wind'. Flying a kamikaze mission was portrayed as a great honour by the Japanese government. It was claimed that there were many volunteers, although some have argued that not every kamikaze soldier would have been willing. By the end of the war, nearly 4,000 kamikaze pilots had died. 	 The narrator of this poem is a kamikaze pilot's daughter. Unlike many of his comrades, this pilot turns back from his target and returns home. The poem explores the moment that the pilot's decision is made and sketches out the consequences for him over the rest of his life. Not only is he shunned by his neighbours, but his wife refuses to speak to him or look him in the eye. His children gradually learn that he is not to be spoken to and begin to isolate and reject him. 	 The poem explores the conflict between personal and national duty and suggests that individual desire and extreme patriotism cannot be achieved together. Through the pilot, Garland may be expressing how it is not honour that gives life meaning, but rather being with loved ones. The poem explores the impossible situation that the pilots were put in by those in power- dying in glory or being shamed and rejected by your family. It also deals with the lasting effects that war can inflict on people, families, and communities. This poem not only deals with the kamikaze pilot's own story, but the implications for those around him. 	Kamikaze is a narrative poem. It begins as a report, summarising another conversation or story told by someone else. Sections of the poem are presented in italics as first-person narrative, where the storyteller speaks directly for herself. This has the effect of heightening the sense of sadness she feels.	
Checking Out Me History- John Agard	 Since the early 17th century, the country of Guyana has been colonised and controlled by the Dutch, French and British. The indigenous population spoke Arawak, but the British introduced English as the language of the government, courts and education system. For centuries, nations would repress the culture and identity of the countries that they colonised. They did this to control the population and get rid of any rebellion against the colonisers. Born in Guyana in 1949, Agard moved to Britain in 1977 and sosees the culture as both an insider from living there and an outsider from moving to Britain 	 The poem focuses on the omission of indigenous history and discusses how colonized people were forced to learn about <i>British</i> history—which had little to do with their actual lives. Not only does the poem call attention to the oppressive nature of colonial education, but it also praises important figures who were left out—figures such as Touissaint L'Ouverture, the leader of the Haitian revolution. The poem suggests the curriculum deliberately blinded colonized people to their own histories, and argues that in order to understand their own identity they must learn their own history. 	 Knowledge should not be denied to anyone. No one has the right to oppress others by denying them facts about their past. This can lead to feelings of inferiority and there should be more equality in the world. History is important and there is power in knowing your heritage and culture. People should never exclude this from you – especially if it is replaced with less relevant examples. There is a sense of caution in this poem in relation to believing what you are told. We are reminded that we should always seek the truth for ourselves and question what others choose to teach us. The education system has power to mould our thinking and we should be aware of this. There is a warning that, when people are denied knowledge, they can become bitter and angry, and this could lead to rebellion, protests and uprisings. 	The open form highlights Agard's rebellion against the status quo and the restrictions of a colonial curriculum. His use of italics separates and celebrates the important historical figures from the history he was a taught. The sing-song rhyme scheme holds a bitterness and anger that he was taught trivial things whilst his own history was omitted.	
The Émigrée- Carol Rumens	 Carol Rumens was born in South London in 1944 Published her own poems and translations of Russian poems She has a 'fascination with elsewhere' The Émigrée is not autobiographical poem, but is inspired by living in London (a diverse society) The poem sympathises with people who have been exiled Emigrants are people who have left the country of their birth to settle elsewhere in the world. 	 A displaced person pictures the country and the city where they were born. The city and country are never named in order to increase the relevancy to as many people who have left their homelands as possible. The speaker's home country appears to be war-torn, or under the control of a dictatorial government that has banned the language the speaker once knew. Despite this, the émigrée's childhood memories are filled with light and happiness. Though there is a clear sense of fondness for the place, there is also a more threatening tone in the poem, suggesting that not all of her memories are happy and that the country she has emigrated to is not always welcoming. 	 Rumens presents the importance of empathy and sympathy. She reminds us of how traumatic conflict can be and that people are forced to make heart-breaking decisions when they live under cruel leadership. The poem highlights the importance of belonging and is a celebration of diversity – we should make people feel welcome when they move to a new home. Memories are shown to be powerful and to have a strong hold over us with the ability to bring both pain and comfort. The past can be difficult to escape and can restrict us from moving forward in life. There is also a sense of the power of the media – their portrayal of immigrants can lead to a lack of sympathy in society; it is important we do not become insensitive to the pain that can lead to people moving to a new home. 	The use of enjambment reflects the chaos and confusion of her situation. The poem consists of two stanzas with eight lines and a third stanza with nine lines. The added line in the final stanza could suggest she doesn't want to let her memories go, stop writing about her homeland or give up her past.	
Storm on the Island- Seamus Heaney	 Northern Ireland. The majority of Northern Ireland's population were unionists, who wanted to remain within the United Kingdom. Most of these were Protestant Christians. Seamus Heaney was a Catholic born in Northern Ireland in 1939. Catholics were seen as the underclass and were discriminated against by the government 	There are two interpretations of this poem- literal and metaphorical. Literal: The narrator describes how well prepared they are for the storm. The storm attacks the island. As the poem progresses, the narrator's confidence decreases, and they begin to worry. Metaphorical: Heaney uses the storm as a metaphor for the conflict in Northern Ireland. The 'Islanders' suffer under enemy occupation with quiet resignations.	 Heaney portrays nature as a powerful force that humans should fear and not attempt to control. Heaney presents the idea that life under constant enemy occupation can leave people accepting this presence with sadness, but stop trying to do anything about it. He warns that the enemy can appear reasonable, but can quickly turn in to a dangerous threat – this threat may not always be physical; the gradual erosion of human rights and liberties is just as perilous. 	Heaney's use of iambic pentameter may appear strange given its use in traditional British poems. However he subverts the traditional structure by swapping the stressed and unstressed syllables on certain lines, resisting the regularity of British control.	
Tissue- Imtiaz Dharker	 Imtiaz Dharker was born in Pakistan but grew up in Scotland. Her poetry often deals with themes of identity, the role of women in society and the search for meaning. Tissue is from her poetry collection called 'The terrorist at my table'. Most of the poems in that collection relate to religion, terrorism and global politics. 	 Tissue explores the varied uses of paper and how they relate to life. It is written from the point of view of someone looking out at the conflict and troubles of the modern world; destruction, war and politics, money and wealth as well as issues like terrorism and identity. The poem remarks how nothing is meant to last. 	 Human power is ephemeral. No matter how much we try to build structures to display our power, nature will always outlast it. Our relationship with paper is unhealthy. We rely on it too much to make records, document ownership and build debt. Instead, we should realise that the significance of human life will outlast the records we make of it on paper or in buildings. Human life is fragile, and not everything can last. We must understand our fragility and should not try to build our lives through making recordings or building with blocks and bricks, we should focus on living. 	The poem has an irregular structure and no rhyme scheme reflecting the irregularity of life and the lack of and predictability. The fragile structure Is symbolic of the fragile nature of our lives.	

	ENGLISH –Poetry cluster 3: The Problem with Power						
Key Voc	abulary	Poem	Context	Events in the poem	Message	Form/ struct	ure
Key Vocabulary		Kamikaz e- Beatrice Garland	 During, the term 'kamikaze' was used for They were expected to 	The narrator of this poem isThe poem explores the moment	 The poem explores the conflict Through the pilot, Garland may be expressing how 	Kamikaze is a Sections of the	
Patriotism		Checking	The made the Kamikaze missions sound like It was claimed that	 His neighbours His neighbours and his wife His children and grandchildren The poem focuses on how 	 The poem explores It also deals with the Knowledge should not be 	are presenter	
Colonialism		Out Me History- John Agard	 For centuries, nations would They did this to 	 Not only does the poem call attention to the how oppressive colonial education was, but it also The poem suggests the curriculum deliberately 	 There is a sense of There is a warning that, 	The sing-son scheme	
Dominate		The Émigrée- Carol	Born in Carol Rumens was born Published her own She has a 'fascination with	 An emigrant The speaker's home country appears to be 	Rumens presents the importance of	The use of enjambment the	reflects
Defiance		Rumens	 The Émigrée is not autobiographical poem, but The poem sympathises with 	 Despite this, the émigrée's childhood memories are 	 The poem highlights the importance of Memories are shown to be 	The poem co	nsists of
Isolated		Storm on	 Emigrants are For many centuries, 	There are two interpretations of this poem-	Heaney portrays nature as	Heaney's use	of
Dictatorial		the Island- Seamus Heaney	 The majority of Northern Ireland's population were Seamus Heaney was 	and : The narrator describes how well prepared they are for : Heaney uses the storm as a metaphor for	 Heaney presents the idea that life under He warns that the enemy can 	may appe	
Nostalgia		Tissue- Imtiaz Dharker	 Imtiaz Dharker was Tissue is from 	 Tissue explores It is written from the point of view of 	Human power Our relationship with paper is		
Fragility		Dharker		 It is written from the point of view of The poem remarks how 	Human life is		

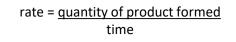
T4 Y10 C3.8 Mainstream Rate and extent of chemical change

Rate of reaction.

Measuring the rate of anything always involves a **measurement of time**

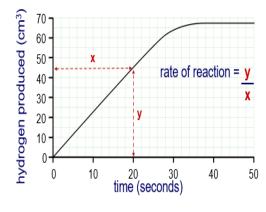
The rate of a chemical reaction can be found using:

rate = <u>quantity of reactant used</u> time



Quantities for reactants or products are measured in **mass in g** or by **volume in cm³**

Rate calculations can be done from tables of data or graphs:



Volume of hydrogen produced = 45cm Time taken = 20 seconds Rate = $\frac{45}{20}$ cm³ 20 s rate = 2.25 cm³/s

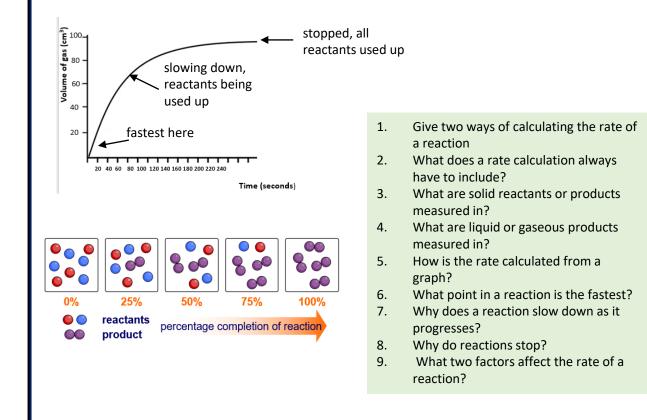
The progression of a chemical reaction

For a reaction to take place, reactant particles have to collide.

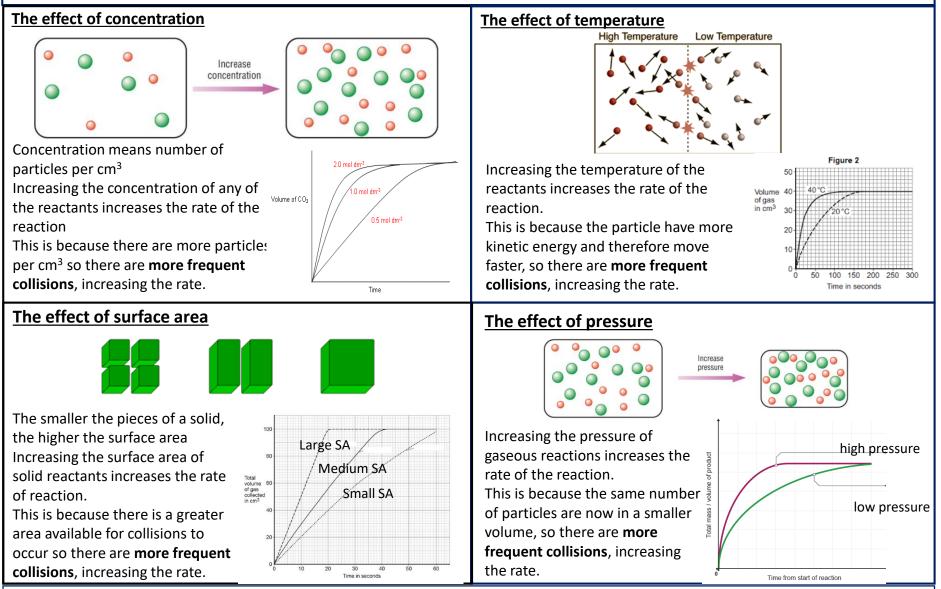
The rate of a reaction depends on the **frequency of collisions** and **the energy with which the particles collide.**

The minimum amount of energy needed to start a reaction is called the **activation energy**.

A reaction is always **fastest at the beginning** and slows down over time as the reactants get used up and the frequency of collisions decreases.



T4 Y10 C3.8 Mainstream Rate and extent of chemical change



In all cases, the overall amount of product is the SAME, the end point of the reaction is just reached faster

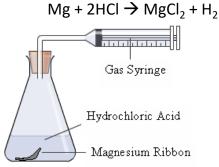
T4 Y10 C3.8 Mainstream Rate and extent of chemical change				
 The effect of concentration 1. In the box below, draw a reaction involving a higher concentration of the green reactant molecules. 2. What happens to the rate of a reaction if you increase the concentration? 	 <u>The effect of temperature</u> 1. Describe how increasing the temperature affects the rate of a reaction. 2. Explain why this happens in terms of particles. 			
 The effect of surface area 1. Reactions involving what sort of reactant are affected by surface area? 2. What type of piece has a large surface area? 	The effect of pressure1. Reactions involving what type of reactants are affected by pressure?2. Label the diagram with 'low pressure' and 'high pressure'			

What happens to the overall amount of product if you change the rate of a reaction?

T4 Y10 C3.8 Mainstream Rate and extent of chemical change

Experiment 1

Using volume of gas collected over time as a measure of the rate

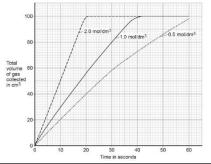


Independent variable: concentration of HCl Dependent variable : Volume of gas produced / min Control variables : volume of HCl, mass of Mg, temperature of acid

Method

- 1. Measure 20cm³ 0.5M HCl into a conical flask.
- 2. Insert 2 x 2cm pieces of Mg and attach a gas syringe
- 3. Start a stopwatch and measure the volume of gas collected every 20 seconds until the reaction is over.
- 4. Repeat using different concentrations of HCl.

An increase in the concentration leads to an increase in the rate of the reaction, but the same volume of product overall



Experiment 2

Investigating the effect of changing the concentration of HCl on the rate of reaction

 $HCI_{(aq)} + Na_2S_2O_3 (aq) \rightarrow NaCI_{(aq)} + SO_{2(g)} + S_{(s)} + H_2O_{(I)}$



The sulphur being made is insoluble and is what makes the liquid go cloudy

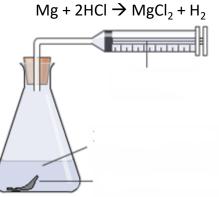
Independent variable: concentration of HCl Dependent variable : Time taken for the cross to disappear Control variables : volume of HCl, volume of sodium thiosulphate, temperature of both solutions, concentration of sodium thiosulphate <u>Method</u>

- Use a measuring cylinder to put 10 cm³ sodium thiosulfate solution into the conical flask.
- 2. Put the conical flask on the black cross.
- 3. Put 10 cm³ of 0.5M hydrochloric acid into the 10 cm³ measuring cylinder.
- 4. Put this acid into the flask. At the same time swirl the flask gently and start the stopwatch.
- 5. Look down through the top of the flask. Stop the stopwatch when you can no longer see the cross. Record the time.
- Repeat steps 1-5 using different concentrations of HCl 1M, 1.5M, 2M and 2.5M

T4 Y10 C3.8 Mainstream Rate and extent of chemical change

Experiment 1

Using volume of gas collected over time as a measure of the rate



- 1. Label the diagram to show the equipment and chemicals used in this investigation
- 2. What is the independent variable?
- 3. Name two control variables.
- 4. What is a sensible volume of HCl to use?
- 5. Which piece of equipment, essential for a rate calculation, is not shown?

Experiment 2

Investigating the effect of changing the concentration of HCl on the rate of reaction

 $HCI_{(aq)} + Na_2S_2O_3 (aq) \rightarrow NaCI_{(aq)} + SO_{2(g)} + S_{(s)} + H_2O_{(l)}$





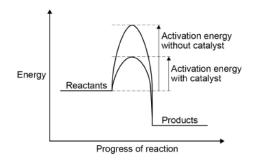
- 1. What is the dependent variable in this reaction?
- 2. Why does the solution go cloudy?
- 3. Name two control variables.

T4 Y10 C3.8 Mainstream Rate and extent of chemical change

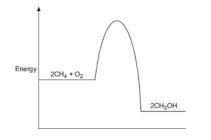
Catalysts

- Catalysts are substances that speed up chemical reactions without themselves being used up.

- They provide a different pathway for the reaction with a lower activation energy.
- Different reactions require different catalysts.



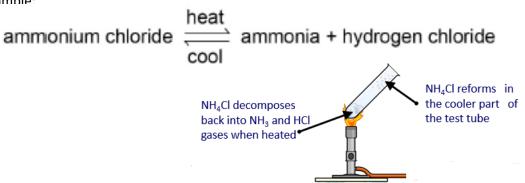
- 1. What is a catalyst?
- 2. How do they speed up reactions?
- Draw on the energy level diagram below to show how it would change in the presence of a catalyst.



Reversible reactions

These are reactions in which the products can react to produce the original reactants They are represented by the symbol

The direction of the reaction can be changed ~, changing the conditions For example:



If a reaction is exothermic in one direction, it is endothermic in the opposite direction. **The same amount of energy** is transferred in each case.

hydrated copper sulfate (blue)	endothermic exothermic	anhydrous copper sulfate (white)	+	water
---	---------------------------	---	---	-------

When a reversible reaction takes place in sealed apparatus, then a point occurs when the forward and backward reactions occur at the same rate. This is **equilibrium**

- 1. What is a reversible reaction?
- 2. What symbol is used in an equation to represent a reversible reaction?
- 3. If a reaction is endothermic in the forward direction, what does this tell us about the backward reaction?
- 4. If 300J of energy is absorbed during an endothermic reaction, how much will be released in the opposite direction?
- 5. What is equilibrium?

T4 Y10 C3.9 Mainstream – Organic Chemistry

Crude oil

- Crude oil = a mixture of **hydrocarbons.**
- It is a non-renewable resource (fossil fuel)
- Made from remains of dead sea creatures compressed over millions of years

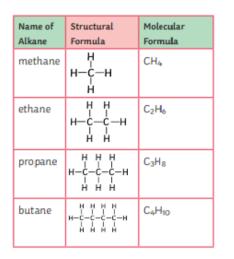
Hydrocarbons - molecules containing hydrogen and carbon only.

Two types of hydrocarbons are **alkanes** and **alkenes**. The hydrocarbons in crude oil are mostly alkanes.

<u>Alkanes</u>

- Alkanes = saturated hydrocarbons.
- Held together by single covalent bonds.
- General formula = C_nH_{2n+2}
- Have different boiling points longer the chain, higher the boiling point

You need to remember the names, and formulas of the first 4 alkanes.

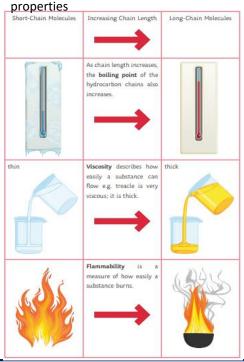


Fractional Distillation

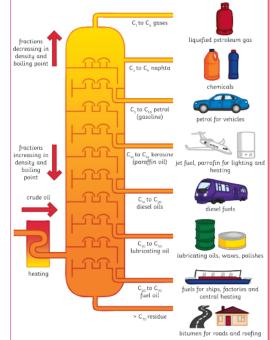
- Used to **separate** the mixtures of hydrocarbons in **crude oil**.

Steps in Fractional Distillation

- 1. Crude oil enters **fractioning column** and is heated to boiling point so the hydrocarbons evaporate.
- 2. It is **cooler** at the **top** of the fractionating column and **hotter** at the **bottom**.
- 3. Vapours rise up the column and, as they rise, they cool
- 4. The different hydrocarbons condense at different **boiling points**
- 5. The different 'fractions' have different



Uses of the different fractions



Supply and demand

Product	Supply in tonnes	Demand in tonnes
petrol	100	300
diesel	200	100
heating oil	250	50

After fractional distillation, we find:

- we have more of the long chain hydrocarbons than we need
- There are not enough short chain hydrocarbons.
- Short chain are more useful as they are more flammable so can be used as fuels.

Science		
T4 Y10 C3.9 Mainstream – Organio	c Chemistry	
1. What is crude oil?	 What is the name for the process that results in the separation of the fractions of crude oil? 	 What is one use for the hydrocarbons that are between 14 and 20 carbons long?
2. What is a hydrocarbon?		
 What type of hydrocarbons are alkanes? 	2. What happens to the boiling point of hydrocarbons as the chain length increases ?	2. What is the range of lengths of hydrocarbons in fuel oil?
dikalles!		3. What are the smallest hydrocarbons
4. State the general formula for alkanes.	3. What happens to the viscosity of hydrocarbons as the chain length increases?	used for?
5. Name the first four alkanes.	4. What does flammable mean?	 What happens to the flammability of hydrocarbons as the chain length increases
6. What sort of bonding is found in hydrocarbons?	5. What are the two changes of state that occur during fractional distillation?	5. What is the range of hydrocarbon lengths found in petrol?
	6. Which physical property is used to separate the fractions?	6. What is the problem with supply and demand of the different hydrocarbon chains?

T4 Y10 C3.9 Mainstream – Organic Chemistry

Cracking

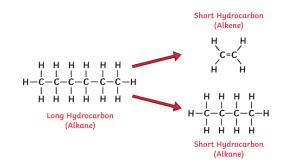
- This is done to solve the problem of having too many long chain hydrocarbons and not enough short ones
- Long hydrocarbons are broken down into smaller, more useful hydrocarbons.
- Short chain hydrocarbons are more useful as they are more flammable

Two types of cracking: catalytic and steam cracking.

<u>Catalytic cracking</u> – needs a high temperature and a catalyst.

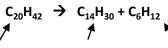
Steam cracking – high temperature and steam

- Cracking produces a **short-chain alkane** and an **alkene**.



Cracking equations

Same number of carbon and hydrogen atoms on both sides of the equation:



long chain hydrocarbon shorter, more alkene

<u>Alkenes</u>

- Alkenes are **unsaturated** hydrocarbons.
- Contain carbon-carbon double bonds.

Test for Alkenes

Use bromine water to test for alkenes. If an alkene is present, the bromine water turns from orange/brown to colourless. Alkanes do not react with bromine water.



Uses for alkenes:

- Can be used as fuels
- Can be used as a starting material for other chemicals
- Can be used to make polymers (e.g. plastic)

Polymers

- Polymers are large molecules made of many repeating units (monomers)
- Alkenes (small molecules) are joined together to make polymers

Poly(ethene) – plastic bags/drinks bottles

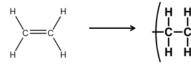
Poly(propene) – strong tough plastics

Drawing and naming polymers

- 1. Redraw the **monomer given**, but without the double bond. Make sure to copy all other elements exactly.
- Put brackets around the monomer and extend joining bonds out through the brackets on both sides
- 3. Add an 'n' at the bottom right of the bracket
- 4. To name the polymer, you put **poly** in front of the monomer name

E.g.:

Draw and name the polymer made from the monomer ethene:



Ethene

Poly ethene

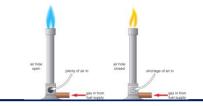
Combustion of Hydrocarbons

Combustion means burning.

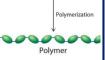
<u>Complete combustion -</u> when there is a good supply of **oxygen** for a fuel to burn.

Fuel + oxygen \rightarrow carbon dioxide + water

Incomplete combustion - not enough oxygen Products are carbon monoxide and water. Carbon monoxide = poisonous gas







T4 Y10 C3.9 Mainstream – Organio	c Chemistry	
1. What is cracking?	1. Why are alkanes called 'unsaturated'?	 What is the name of the polymer formed from the monomer butene?
2. Why is cracking done?	2. Which chemical is used to test for alkenes?	
3. What are the two types of cracking?		Draw the polymer made from the monomer propene given below:
	3. What is the colour change for a positive alkene test?	$H_{H} = C_{H}^{CH_3}$
4. What conditions are needed for catalytic cracking?	4. Give two uses for alkenes	 Name the polymer made in question 2
5. Complete this cracking equation by putting numbers in the boxes:	5. What are polymers?	4. What is combustion?
$C_{30}H_{62} \rightarrow C_{22}H_{1} + C_{1}H_{1}$ 6. What two types of hydrocarbons are	6. What is the name for the small molecules that make up polymers?	5. When does incomplete combustion happen?
formed during cracking?		6. What are the waste products of complete combustion?
		7. Which toxic gas is formed during incomplete combustion?

T4 Y10 B3.10 Mainstream – Homeostasis and Response The nervous system RP 6 - Investigation into the effect of a factor on human reaction time. Job is to detect stimuli (changes in 1. Person A holds out hand with a gap between thumb and finger. The 'factor' could be... environment) and respond if needed. 2. Person B holds ruler with the zero at the top of person A's Caffeine consumption Consists of: Hours of sleep thumb. Receptors 3. Person B drops ruler without telling Person A and Person A Alcohol consumption Amount of practice Specialised cells that must catch it. 4. The distance on the ruler level with the top of person A's detect stimuli, found thumb is recorded in sense organs and internally 5. Repeat this ten times. A computer 6. Repeat steps 1-5 after a factor has been changed reaction test can 7. Use conversion table to convert ruler measurements into Neurones also be used. 3 types – sensory, relay reaction time. and motor Control variables : distance above the hand, distance between finger and thumb, hand used (dominant or Carry impulses joining all non-dominant, all other factors listed in the box above except the one being changed. parts of the nervous system Reflexes **Co-ordination Centres** A reflex is an automatic, rapid response **Relay neurone** Brain, spinal cord, Reflexes do not involve the conscious part of the Stimulus Sensory Receptor brain, so cannot be overridden pancreas. neurone Coordinates the The response might be brought about by: response • muscle - e.g. pupil being constricted with Effectors bright light or knee jerk response Motor Response • gland – e.g. mouth watering or tears being Effector neurone Organs that released when something gets in your eye Spinal cord bring about a (CNS) response gland muscle or **Reflex Arc** stimulus \rightarrow receptor \rightarrow sensory neurone \rightarrow relay neurone \rightarrow motor neurone \rightarrow effector \rightarrow response Example Hot pan \rightarrow pain receptors \rightarrow sensory neurone \rightarrow relay neurone \rightarrow motor neurone \rightarrow hand muscles \rightarrow release pan

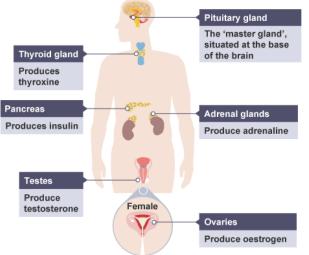
Science			
Julie Contract			

test?
unt of sleep a person has affects their reaction time' what
rted into a reaction time?
ALL
Spinal cord (CNS)

T4 Y10 B3.11 – Mainstream Homeostasis and Response

Hormonal responses

Hormones are chemicals released by glands They are carried in the bloodstream. Hormonal responses are slower than nervous responses but they last longer.



Homeostasis

This means keeping internal conditions (of the body or a cell) constant to ensure optimum functioning. In humans, this includes regulating:

- temperature
- water levels
- blood glucose concentration

Homeostasis can involve nervous or hormonal responses.

Receptors detect changes in the body

Coordination centres (brain, pancreas, spinal cord etc) receive and process information

Effectors carry out responses to return to normal

Blood glucose concentration

Blood glucose is monitored by the **pancreas.**

If glucose levels rise, the pancreas releases **insulin** into the blood.

This is a message to the liver to remove glucose and store it as **glycogen**.

If blood glucose is too low, **glucagon** is released.

The liver responds by breaking down glycogen into glucose and releasing it into the blood.

Diabetes

There are two types – Type 1 and Type 2

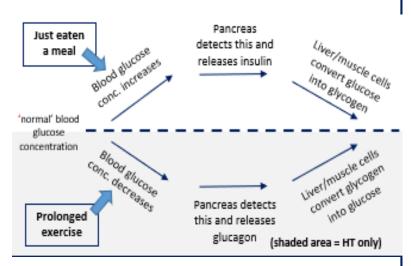
Both result in a lack of control over blood glucose levels

	Туре 1	Туре 2
Cause	No insulin is made by the pancreas	Insulin is made, but the liver and muscle cells do not respond
Treatment	Injections of insulin Pancreatic transplant	Controlling carbohydrate intake Losing weight

HT only

Negative feedback is when the release of something brings the levels back towards acceptable levels, it maintains a steady state.

E.g. if blood glucose increases, insulin is released to bring blood glucose back towards the normal range.



T4 Y10 B3.11 – Mainstream Homeostasis and Response

	s and hesponse			
Adrenaline and thyroxine (HT only) Adrenaline is produced by the adrenal glands.	Name of contraception	Description	+	-
It is produced in times of fear or stress. It increases heart rate to ensure more oxygen and glucose to the cells to prepare for the	Condoms/diaphragm	Barrier	Very effective, condom protects against STIs	Unreliable if not used properly
 'fight or flight' response. Thyroxine is produced by the thyroid gland. It is involved in regulating metabolic rate and growth and development. 	Oral Contraception (pill)	Hormonal (oestrogen or progesterone, stops FSH so no eggs mature)	Very effective	Must remember to take everyday, can have side effected
Puberty Females – Oestrogen is the main female reproductive hormone produced in the ovary. At puberty, eggs begin to mature, and	Injection/implant/skin patch	Slow-releasing hormone	Long lasting	Side effects such as heavy periods
one is released approximately every 28 days. This is called ovulation. Males – Testosterone is the main male reproductive hormone produced by the testes and it stimulates sperm production.	Intrauterine Device (IUD or Coil)	Barrier method. Can also contain hormones	Long lasting (up to 5 years)	Side effects such as heavy periods
р	Surgical Sterilisation	Tying or cutting of	Almost 100%	Difficult or impossible
The menstrual cycle is controlled by several hormones: FSH –from the pituitary. Causes an egg to mature in the ovary	gg released ning of e uterus uilds up Uterus lining Day 14 Day 21	Lining breaks down (menstruation) • • •	stimulates the matu	FSH can be given to of eggs released and f fertilisation Se of FSH and LH - uration of several eggs. and fertilised by sperm elop into embryos.
HT – Oestrogen also feeds back to the pituitary to stop producing FSH.	Progesterone	-	 very emotionally/ p success rates are no can lead to multiple 	ot high

- Many embryos are not used & destroyed

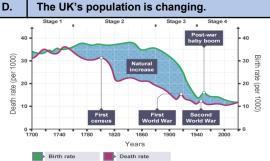


Year 10 OCR - Unit 2 GEOGRAPHY - Knowledge organiser: People of the UK



Y									
What we a	are learnin	g this	term:	С.	There are dif				
		many other countries and	North	-south divide					
B. The U	s. IK is a divei	Deind	ustrialisation						
geogr	aphical pat	terns.		Geog	raphical location				
develo	opment with	nin the		Econo	omic change				
	K's popula		changing. nd consequences of urban						
trends	s in the UK		·	Infras	tructure				
			llenges and ways of life, , culture and geography.	Gove	rnment policy				
6 Key Wo	rds for this	s term							
1. Trade			4. Suburbanisation	How h	nas Swindon exp				
2. Deindus	strialisation		5. Counter-urbanisation		eat Western Rail ling many jobs ar				
3. Infrastru	icture		6. Re-urbanisation	Londo	on and Bristol.				
А.	The UK is and places		cted to many other countries	other	2. Honda was built in 1 other car companies su				
1. Trade			novement of goods and services		e old train sheds e which attracts t				
			s the world.	D.	The UK's popul				
2. Imports		Produ	ucts brought into a country		Stage 1 Stag				
3. Exports		Produ	ucts taken out of a country.	40	~~~				
4. Trade de	ficit		n a country imports more than export.	0000 30 20					
6. Tariffs		Tax t expor	hat must be paid on imports or ts.	Death rate (per 1000)					
	UK is a div graphical p		nd unequal society which has	0	1700 1740 1780 182				
1. Tertiary s	sector		oyment in the services industry as education or healthcare.	1 Den	nographic transitior				
2. Quaterna	. Quaternary sector Employment is research, technology and media.				(DTM).				
3. Disposab	ole income	once	noney people have to live on their taxes, pensions and rent been paid.		ing population				
4. Diversity		exam	rences within society. For ple, race, levels of education vealth.		nomically active				
			-						

C. There are diff	2. There are different causes and consequences of development within the UK.									
North-south divide	The difference in wealth in the	e 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 comm travel to Europe.	nunications are better in the South meaning it is easier to								
Government policy	The government invest more i to improved infrastructure, edu	n the south because it is closer to London. This can lead ucation 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	The UK's population is changing				
Causes of an ageing population (2)		 Improved healthcare. People living more active lifestyles. 				
Positive effects of an ageing population <i>(2)</i>		 Skilled workforce More money spent in leisure facilities or resorts. 				
agein	s of an	 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 learnin	g this term:	C.	There are diffe	rent causes and consequence	es of dev	elopme	ent 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				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.					
1. Tra	de								
2. Imp	orts		D.	D. The UK's population is changing.			D.	The UK's	s population is changing
3. Exp			Stage 1 Stage 2 Stage 3 Stage 4				Cause	es of an	1.
4. Tra	de deficit		er 1000)	40 10 10 10 10 10 10 10 10 10 1			agein popul	g ation (2)	2.
6. Tar	ffs		Jeath rate (pe				Positive 1. effects of an		
В.	The UK is a div geographical p	verse and unequal society which has patterns.	First First World War World War 0 1700 1740 1780 1820 1800 1940 2000 0 Years				ageing 2. population (2)		2.
1. Tertiary sector		Birth rate Death rate				Negative 1. effects of an ageing 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. Diversity		3. Econ	omically active			1- 2-2 20	(=)		
			4. Immię	gration					





D.	The UK'	s population is cha	inging		D.		ave distinctive challenges and ways of						
	 1. International migration has increased in the 21st century due to increase in job opportunities, high quality education and global conflict. 2. Immigrants come from all over the world including Poland, India and Pakistan. 										enced by its people, culture and hy. (CASE STUDY OF BRISTOL)		
Desitive		-		r the world	i i	-			Location		South-west England. Near the Bristol Channel		
	· ·	migration on the UK			-		of migration or				1.5 hours from London		
Social (2		I.Different cultures in and fashion. 2.They bring skills tha supply in the UK.	5 /		Social	(2)	local jobs a	y feel that they are taking nd houses. o cultural conflict	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,	Migra	tion	 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		(3)	anisation	city areas			enges:	1.UK's most congested city.		
Urbanisa	tion	The growing prop moving to cities	ortion of peop	le					3.Land may be cheaper outside of the city.		Trans provis		2.Poor public transport links
Suburbar	nisation	The outward spre surrounding greer		0	Causes counter urbanis			rowding in cities. e want a more peaceful le.	Waste	enges: e gement	 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.			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	ing prices tryside inc ded public		Social 1.over-crowding. (2) 2.Housing prices increase		Trans	port	 the inner city. Successful because it reduces CO2 emissions. Unsuccessful because the park and 		
Economi (2)		ommute is more pensive.	Economic (2)	1.Hous count	e prices increase in Econo 1.Housing prices						ride is unreliable.		
(2)	2.Sł	nops in city entres close.	(2)		-city decli	ne		mic (2) increase. 2.Office space is expensive.		inable gies:	 '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)		traffic cor sure on loo y	0	Enviro 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	on in entury.	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)	1				Social (2)	1. 2.				1. 2. 3. 4.
Economic (2.					nic (2)	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 Urbanisatio	ion					anisation	2. 3.			lenges:	1. 2.
Suburbani	isation				counter	auses of 1. unter- 2. banisation (3)			Wast	l enges : e agement	1. 2.
Counter- urbanisatio Re-urbanis	-				Causes		3. 1. 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)	1. 2.		Social (2)	1. 2.			Social (2)	Trans	•	Successful because Unsuccessful because	
Economic (2)	; 1. 2.		Economic (2)	1. 2.			Econo mic (2)			ainable egies: e	• Successful because
Environme ntal (2)	e 1. 2.		Environm ental (2)	1. 2.			Enviro nment al (2)			Unsuccessful because	





What we ar	e learning this term:	В.		the Munich Putsch fail?			
1920s	d the Nazi Party appeal to people in the early d the Munich Putsch fail	1 – Bavarian Lea	aders	Hitler had captured the 3 Bavarian leaders in a Beer Hall on the 8 th November 1923. He forced them to say that they would support his plan to overthrow the Weimar Republic. However, they were let go by Ludendorff (army general) and so took away their support and warned the army			
	as there little support for the Nazis between	2 – Army		Hitler wrongly believed that the army in Bavaria would stand with him and would support his uprising against the government. This was not the case and instead the army stood against Hitler and his SA which was only 1,000 men.			
	d the Nazis appeal to people between 1929-33 d Hitler come to power in 1933	3 – Bavarian Peo	ople	Again Hitler had wrongly assumed that the people of Bavaria would be angry enough with the Weimar Republic to want to stand with him against the government. He did have 2,000 volunteers but they were most likely paid to support Hitler so were not loyal			
	Is for this term	4 – Hitler		Hitler himself was a factor in why the Putsch failed. Instead of giving up when he had lost the support of the Bavarian leaders he continued with the revolt and as a result he ended being arrested and the NSDAP was banned.			
the nat	alism – A political outlook which aims to make ion stronger and more independent	C.	N	Vhat is the main difference between two interpretations about the Nazi Party during the Lean Years (1923-29)?			
country to the v 3 Lebens living s 4 Putsch 5 Fuhrer 6 Autark	 ism – A political outlook which states that /'s land, industries and wealth should all belong workers of that country sraum – This a German word which means pace a German word for uprising, usually violent b – German word for uprising, usually violent c – A leader who exercises power cruelly y – The act of a country being self-sufficient t relying on other countries 	to do it der 2. Mein Kam extreme ra 3. Party Heau departmen 4. Bamberg of of the Nazi 5. Limited So	nocratically pf – During cist views a dquarters ts for all as Conferenc party. This upport – In	isation – By the time Hitler was released from prison he had come to realise that the best way for the Nazis to get into power would be titically and to be voted into the Reichstag. This led to Hitler reorganizing the Nazi Party to make it more of a focused political party During his time in prison Hitler had the chance to write Mein Kampf which set out his key political beliefs. This book sets out his riews and ideas on Nationalism, Socialism, totalitarianism and traditional German values reters – The Nazi Party was mainly based in Munich and it was organised into a mini state with Hitler as the leader and different all aspects of government. Hitler also managed to get big industrialists to invest in the Nazi party erence – This conference took place in early 1926 and its aim was to address the split between the Nationalist and Socialist sections y. This conference confirmed that the Nazi Party was mainly nationalist, and Hitler's control of the party was now clear rt – In the years 1923-29, the Nazi party struggled to gain strong support due to Stresemann's economic and international recovery for public and the appointment of ex Field-Marshal of the army Paul von Hindenburg as President.			
		D. How did the Nazis appeal to the people between 1929 and 1933?					
				October 1929, the stock market in Wall Street (New York) started to crash which meant that the price of stocks and shares fell matically.			
Α.	What is the main difference between two interpretations about the appeal of the Nazi Party in the early 1920s?	2 Depression	Follo	ollowing the Wall Street Crash, American banks were running out of money and so they ask Germany to pay back the money they ad loaned them in 1923			
Hitler in the Army	During WWI Hitler had fought for Germany and had even received two Iron Crosses for	3. Unemploymer		Inemployment rose once again as Germany was running low on money as so businesses had to close and imports and exports lowed down as other countries had also been hit by the Wall Street Crash			
	bravery. He was disappointed when the war ended and Germany had lost	4. Chancellor Bruning	for h	runing tried to sort the problem of unemployment by increasing taxes to pay for unemployment benefit and reducing the time limit or how long people could claim it for. This pleased no one and he lost support and control of the Reichstag and began to rule using rticle 48 instead.			
Spy	Hitler was employed by the army to spy on political groups. He came across the DAP which was a right-wing group. He liked the	5 Communists		failure of the government meant that people began to turn to extremist parties such as the communists. The working class eved that the communists would support them and would defend their jobs			
25 Doint	party's message and decided to join	6 Nazis		e people began to turn towards the Nazi party as Hitler was seen as the middle and upper classes defence against communism the Hitler also seemed to be a strong leader who would restore law and order and get rid of the Treaty of Versailles.			
25 Point Program	Hitler become second in command of the DAP and along with Anton Drexler wrote the 25	E.	How use	ful are two sources for an enquiry into the way Hitler became chancellor in 1933?			
me	Point Programme which outlined the groups beliefs	1 Hindenburg		President of the Weimar Republic who never really supported the democratic republic. Did not trust Hitler and refused to make him Chancellor even when the Nazis were the majority party. Was persuaded by von Papen that he could control Hitler			
Speeches	Hitler begins to give speeches for the DAP from June 1920 and he was a very passionate speaker and he helped to increase the party's	2 Franz von Papen		Became Chancellor in May 1932 but he was not a strong leader and Hitler tried to persuade Hindenburg to make him Chancellor but he refused and instead Kurt von Schleicher was made Chancellor out of desperation			
	membership to 1,100 members	3 Kurt von Schl	eicher	Originally suggested that Hindenburg made von Papen Chancellor and then turned his back on him. Tried to rule but he lacked support and tried to create a military dictatorship which Hindenburg refused to support			
Leader	In July 1921 Hitler pushed Drexler out and became the head of the DAP. He changed the name to the Nationalist Socialist German Workers Party (NSDAP or NAZIS)	4 Hitler		Hitler had managed to grow the Nazis support between 1929 and 1932 to the point where they were the largest political party in the Reichstag and therefore believed he should be Chancellor and constantly told Hindenburg this. Did not become Chancellor until January 1933, after Hindenburg had been assured by von Papen that he could control him. Both underestimated Hitler.			





What we are learning this term:			В.	B. Why did the Munich Putsch fail?				
	1920s		1 – Bavarian Lea	aders				
В. С.	Why o Why v 1923-2	lid the Munich Putsch fail vas there little support for the Nazis between 29	2 – Army					
D. E.	How o Why o	did the Nazis appeal to people between 1929-33 did Hitler come to power in 1933	3 – Bavarian Pe	ople				
6 K	ey Wor	ds for this term	4 – Hitler					
1	Natio	nalism –	С.	۱	What is the main difference between two interpretations about the Nazi Party during the Lean Years (1923-29)?			
2	Socia	lism –	1. Party Reo 2. Mein Kampf		n –			
3	Leber	nsraum –	3. Party Headqu					
4	Putso		4. Bamberg Co	nference -	-			
5	Fuhre	۲ —	5. Limited Support –					
6	Autar	ky –	D.	How did	the Nazis appeal to the people between 1929 and 1933?			
	Α.	What is the main difference between two	1 Wall Street Cra	ash				
	~.	interpretations about the appeal of the Nazi Party in the early 1920s?	2 Depression					
	er in Army		3. Unemploymer	nt				
uie	Anny		4. Chancellor Bruning					
Spy	,		5 Communists					
			6 Nazis					
	Point gram		E.	How use	eful are two sources for an enquiry into the way Hitler became chancellor in 1933?			
me			1 Hindenburg					
spe s	eche		2 Franz von Pa	pen				
Lea	der		3 Kurt von Schl	eicher				
			4 Hitler					

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Keywords		What we a	re learning in this unit	В.	The 5 Pillars - Salah
Tawalla	Showing love for God and for those who follow Him	B. Salah	Pillars and 10 Obligatory Acts		
Tabarra	Disassociation with God's enemies	C. Sawm D. Zakah E. Hajj F. Jihad		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.
Khums	The obligation to pay one- fifth of acquired wealth	G. Id-ul-A H. Id-ul-Fi			 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
Lesser jihad	The physical struggle or holy war in defence of	Α.	5 Pillars of Islam and 10 obligatory acts		paying.
	Islam	What are the 5	 5 key practices or duties for Muslims Both Sunni and Shi'a keep these (Shi'a have them 	Wuzu	The washing process to purify the mind and body for prayer
Greater jihad	The daily struggle and inner spiritual striving to live as a Muslim	pillars	 as part of the 10 obligations) They are seen as pillars "holding up the religion" and are all of equal importance 		 Muhammad said the key to Salah is cleanliness Hands, arms, nose, mouth, head, neck and ears are 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 taken to service the service of the	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	tabarra 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 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 Menand
	Jihad			lummah	Mosque
 Originated when Prophet Muhammad and early Muslims were being attacked and oppressed by the Meccans and had no choice but to engage <i>"Fight in the way of God those who fight against you but do not transgress"</i> Conditions for declaration self-defense proportionate legitimate authority no harm to civilians 				Jummah	 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	A struggle wi e.g. perform	thin oneself to fol the Five Pillars, fo vhat is right and	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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Keywords	What	t we are	learning in this unit	В.	The 5 Pillars - Salah
Tawalla	B. S C. S	Salah Sawm	lars and 10 Obligatory Acts	What is it?	
Tabarra	E. H F. J	Zakah Hajj Jihad			
Khums	G. 10	d-ul-Adh d-ul-Fitr	na		
Lesser jihad	A		5 Pillars of Islam and 10 obligatory acts	10/	
Greater jihad	What : the 5 pillars			Wuzu	
Sunni	What a the 10 obliga acts)		Rak'ahs and recitations	
Shi'a	Shaha	adah			
Niyyah				Salah at home	
Du'a				Salah in the mosque	
	Jihad				
Lesser Jihad				Jummah	
Greater Jihad				Differences between Sunni and Shi'a	





	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	 A pilgrimage to Makkah which is compulsory for Muslims to take at least once as long as they can afford it and are healthy 	Id-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.
The significance of pilgrimage	 God told Ibrahim to take his wife and son on a journey and leave them without food or water Hajira ran up and down two hills in search of water, could 		 People ask a butcher to slaughter a sheep for them and share the meat with the community
	 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	 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	 meal at the end of Ramadan. 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, reenactments of martyrdom, not a public holiday in Britain but Muslims may have day off school



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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			
Knums			
		Night of power	
	The 5 Pillars - Hajj		Id-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 UK	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-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	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	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
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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 9 SPANISH Knowledge organiser. Topic My Studies					
What we	are learning th	-	9.1F ¿Cómo ser buen estudiante?	A T		
B. Talk C. Talk routi D. Talk	ting about your s ting about your s ine	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		
9.2	1G El instituto	y las asignaturas	el diccionario dictionary la duda doubt, query	Т		
el arte dra la asignatu la carrera las ciencia la clase la cocina continuar los debere dejar to el dibujo difícil d divertido/a la educaci Escoger el español estudiar fácil ea el francés la geografi la historia el inglés	mático dram ura subject career, unive as science class cooking, food to continue, c s homework o drop art ifficult, hard n fun ón física PE to choose Spanish to study sy French ía geography history English	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 rerssa sa m se el la U el pi la ss S S u el		
las matem práctico/a próximo/a la selecció Útil use	practical next on choice		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 To pass	<u>Elegir</u> To choose	<u>Suspender</u> To fail		<u>Estudiar</u> To study	Pensar To think			
Apruebo I pass	Eligo I choose	Suspendo I fail		Estudio I study	Pienso I think			
Apruebas You pass	Eliges You choose	Suspendes You fail		Estudias You study	Piensas 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 We pass	Elegimos We choose	Suspendemo We fail	S	Estudiamos We study	Pensamos We think			
Aprueban They pass	Eligen They choose	Suspenden They fail		Estudian They study	Piensan They think			
9.1F ¿Cómo	ser buen estud	iante?		9.1H ¿Qué tal	el instituto?			
responsable re resultar en to e saber to know sacar buenas / to malas notas serio/a serious las tareas hom el trabajo work la tutoría tutori Usar to use	resultar en to end up with, to lead to saber to know sacar buenas / to get good / bad grades malas notas serio/a serious las tareas homework el trabajo work, piece of work la tutoría tutorial Usar to use				el/la alumno/a pupil antiguo/a old asustado/a frightened asustar to frighten el atasco traffic jam, blockage atento/a attentive el aula (fem.) classroom ayudar to help buscar to look for cambiar to change cansado/a tired 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					
9.1H ¿Qué tal el instituto? preocupar to worry la sala de informática IT room sencillo/a simple Sentirse to feel usar to use el viaje journey la zona área				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,			

GCSE Unit 9 SPANI	Key Verbs						
	To pass	To choose	Suspender		Estudiar	Pensar	
What we are learning this term:	9.1F ¿Cómo ser buen estudiante?	Apruebo	Eligo			Estudio	
 A. Giving your opinion about different subjects B. Talking about your studies C. Talking about your studies 	to affect		l choose	l fail		l study	I think
 C. Talking about your school life and daily routine D. Talking about school rules and uniform 	aprender los apuntes	You pass	Eliges You choose	Suspendes	_	You study	You think
E. Translating into English	asistir a la biblioteca	Aprueba He/she/it passes	Elige	Suspende He/she/it fail:	s	Estudia He/she/it	He/she/it thinks
6 Key Words for this term	el/la compañero/a to complete					studies	
1. asignaturas4. suspender2. notas5. licienciatura3. aprobar6. elegir	el discussion	Aprobamos	Elegimos We choose	Suspendemo	s	We study	We think
	el diccionario	Aprueban They pass	They choose	They fail	-	Estudian They study	They think
	el ejercicio	9.1F ¿Cómo	ser buen estud	liante?		9.1H ¿Qué ta	el instituto?
el arte dramatico subject career, university course las ciencias class class cooking, food technology to continue, carry on los deberes dejar art difficult, hard divertido/a la educación física to choose el español to study fácil el francés el francés la history English las matemáticas English las matemáticas next la selección next la selección	aprobar 6. elegir 9.1G El instituto y las asignaturas arte dramático		to end up with how get good / bad ework piece of work ise cabulary ué tal el institut itica le eel ey ea	grades	antig	to frigh traffic j to/a lar ar to chang tired to mee glad, h to ans	ten jam, blockage ssroom ssroom e t, to get to know appy wer ol year, course lework dated, shabby dated, shabby n all, gym lage ious, nervous hool yard,

	GCSE Unit 10 SPANISH Knowledge organiser.					Key V	/orbs	
1002	Topic Life at	School and Coll						
What we are lear A. Talking about	ning this term: It 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 makeup on oneself	
 B. Talking about C. Translating in D. Revising 'se 	t school rules and uniform	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 	4. demostrar 5. las instalaciones 6. el maquillaje	demostrar el edificio escolar firmar el individuo	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	El día en el instituto to have just done something	las instalaciones el intercambio llevar	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	to perform the open air isolated pupil	el maquillaje los materiales mientras el nombre	make up materials while name	Acaban de They have just finished	Mejoran They improve	Se maquila They put m up on		
aprender la asignatura el bachillerato el bocadillo bonito campo de deportes la clase el/la compañero/a corto/a durar empezar el equipo	to learn subject A-level equivalent sandwich lovely s sports field class classmate short to last to start, to begin team, equipment	la palabra el pasillo el pendiente ponerse en contac prohibido la puntualidad la regla el respeto sufrir traer el trayecto el uniforme	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	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 hacc incó la in	
el estante la evaluación funcionar ganar ir al baño el juego de mesa la hora de comer el laboratorio la obra de teatro la opción la oportunidad pasar la lista el producto químico	shelf assessment to work, to function to win to go to the bathroom board game lunch hour laboratory play option opportunity to take the register			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 co to fulfil as regards to be turned o angry to teach, shov equipment back shelf explanation	'n	la pi mej mol el o la pi recc el re suci tard	

<u>Mejorar</u> To improve	Maquillarse To put make on oneself	eup	<u>Hacer –</u> to do/make	Ofrecer To offer
Mejoro I improve	Me maquillo I put make t		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 maquilla We put make	maquillamos Hacemos out make up on We do		Ofrecemos We offer
Mejoran They improve	Se maquilar They put ma up on		Hacen They do	Ofrecen They offer
lo malo del	instituto	10.1	H Lo Bueno y	lo malo del instituto
put up with olated o brighten up, to cheer o pass an exam oppearance eating unishment ehaviour ehaviour o mark, to correct o fulfil s regards o be turned on ngry teach, show		ya qu el fra golpe hace incón	ved nestre 1 nestre 1 caso 1 cara 1 falta i nodo/a 1 midación 1 arra 1 star 1 o 1 dar 1 o 1 dar 1 yaso 1	haughty, badly term since, as failure to hit t is necessary uncomfortable bullying digital smartboard to improve to disturb, to annoy eisure wall to remember revision dirty to take time, to delay

- -	GCSE Unit 10 SPANISH Knowledge organiser. Topic Life at School and College			Key Verbs				- <u>1</u>	
What we are learn	-		eglas y el uniforme diary, planner	To have just finished	<u>Mejorar</u> To improve	Maquillarse To put make on oneself	<u>up</u>	to do/make	Ofrecer To offer
B. Talking aboutC. Translating inD. Revising 'se of	t school rules and uniform	el apellido el artículo la buscar	absence	I have just finished	l improve	Me maquillo I put make u	p on	l do	Ofrezco
	iers and intensifiers	el El dejar	chewing gum harm to show, demonstrate	Acabas de You have just finished	You improve	Te maquillas	; 	Haces	You offer
 acabar de actuar la ausencia 	4. demostrar 5. las instalaciones 6. el maquillaje	el 	building school (adj.) to	Acaba de He/she it has just finished	Mejora He/she/ it improves	Se maquila He/she/it puts make up on		Hace s/he does	He/she/it offers
10.1G E	El día en el instituto to have just done something	el las instalaciones el intercambio	individual to take, carry, wear	Acabamos de 	We improve	Nos maquillam	10S	Hacemos We do	We offer
el aislado/a el/la alumno/a	to perform the open air	el maquillaje los materiales el nombre	while	Acaban de They have just finished	Mejoran They improve	Se maquilan They put ma up on		Hacen They do	Ofrecen They offer
aprender a	to subject	la el pasillo	word	10.1H Lo bueno	y lo malo del	instituto	10.1	H Lo Bueno y le	o malo del instituto
el el bocadillo conito campo de deportes a el/la compañero/a corto/a el equipo el el equipo el ganar el juego de mesa a hora de comer a obra de teatro a a oportunidad	A-level equivalent	el pendiente ponerse en contact la puntualidad la el sufrir el trayecto el uniforme	o to prohibited, banned rule respect to to bring	el aislado/a up el aspecto la el castigo el comportamiento la cumplir con en cuanto a enfadado/a el equipo la el estante	bullying to put up with to brighten up to pass an exa heating behaviour to mark, to col to to be turned o to teach, show back	am rrect n	el frac	ved nestre	aughty, badly ince, as b hit ncomfortable igital smartboard b improve b disturb, to annoy all o remember irty b take time, to delay
	to take the register			la	explanation				

GCSE Business. Paper 1. Making the Business Effective

27. A private limited company (Limited Liability)	29. Key Words: Making your business effective			
When a business fails, a company that has limited liability restricts the losses suffered by the	Term	Definition		
business owners (shareholders) to the sum of money that they invested in the business.	Bankrupt	When an individual is unable to pay their debts, even after all personal assets have		
Benefits of Limited companies.		been sold for cash		
A company can have share capital, which makes it easier to divide up the ownership between	Private Limited	A small family business in which shareholders enjoyed limited liability		
different investors.	Company			
If the business needs to raise more capital, it is quite easy to issue more shares for sale to other	Sole Trader	A business run by one person; that person has unlimited liability for any business		
investors		debts.		
The business continues to exist even if the founder dies. The company develops a life of its own	30. Franchising			
Due to limited liability, the owners/shareholders can be bold about investing in the future of the	Paying a franch	ise owner for the right to use an established business name, branding and business methods		
business. If a bold move goes wrong, the business may suffer but individual shareholders are not	Why do Busines	sses expand by selling franchises?		
liable for debts		and its sales quickly; this helps fill gaps that other businesses will fill if they don't		
28. Sole Trader (Unlimited Liability)				
Treating the business and the individual owner as the same entity, therefore making the business		ers not only sell a franchise but will receive a share of all future sales. Subway receives 8% of		
owner responsible for all the debts in a business.		ue of all 45,000 stores.		
Why ignore Limited Liability?		owner can concentrate on developing new products and services, and on high quality		
The only logical reason for ignoring limited liability is if there is no realistic possibility of debts	advertising.			
building up. For example, if the business is a market stall, where goods are bought for cash. In this		ne benefits of Franchising for a entrepreneur?		
scenario debts would be hard to build up and firms will be reluctant to pay the related costs and fill	When you franchise you buy the companies images, products and methods. Starting a business requ			
out the required paperwork.	wide range of skills, by franchising you are giving your business a stronger starting point.			
33. Business Locations		utlet/business could never afford image building TV advertising, franchising enables business		
Location is key to the success of any business		major marketing campaigns.		
Factors influencing business location:	32. What are Royalties?			
Proximity to Market: For many businesses this is the most important factor. For a physical service	The percentage	e of sales revenue to be paid to the overall franchise owners		
	36. Marketing N	Mix		
such as a shop, restaurant or hotel, customer convenience will be critical revenue. Shops must be	The four factors	s that make up the marketing mix, usually referred to as the marketing mix. Usually referred		
located in areas of high footfall.	to as the four p	S.		
Proximity to Materials: For manufacturing businesses, nearness to materials may be more important	Product	Targeting customers with a product that has the right blend of functional aesthetic		
than nearness to customers. Being close to materials can cut costs for firms in manufacturing.		benefits without being too expensive to produce		
	Price	Setting the price that retailers must pay which in turn affects the consumers price		
Proximity to Labour: Labour is key to any business; therefore businesses must be located in areas	Promotion	Includes all the methods that a business uses to persuade customers to buy, for example		
where the labour force is equipped with the necessary skills to allow the business to thrive.		branding, packaging, advertising to boost long term image of the product and short-term		
Proximity to Competitors: Many businesses want at location far away from competitors – effectively		offers		
being the only supplier to customers in a local area. However, some businesses will want to be closer	Place	How and where the supplier is going to get the product or service to the consumer; it		
to their competitors as location is key to their business. For example; location is key for restaurants		includes selling products to retailers and getting the products displayed in prominent		
and more important than proximity to competitors.		positions.		
34. How has the internet impacted business location:	37. What is a bu			
Due to the impact of e-commerce, business location matters less. Firms can locate their head office	A detailed docu	ment setting out the marketing and financial thinking behind a proposed new business.		
	38. What shoul	d a good business plan contain?		
anywhere they choose provided the local labour force are equipped with the skills to run the	1. The bu	siness idea; Why, who & how?		
administration effectively. Internet based firms will have a more extensive stock range in all sizes and	2. Busines	ss Aims & Objectives; What is business setting out to do?		
can cater more extensively for consumers needs than retail outlets.	3. Target	Market; Who will you be your target consumer?		
35. Business Location: Key terms:	•	ting Plan; How will you market your product to consumers?		
Fixed Premises:		st revenue, costs and profits; Working out the break-even point		
Real life buildings such as shops, offices and warehouses.		low Forecast; Cash is key to any business		
Proximity:		s of Finance; How will the business fund itself?		
Nearness: Whether or not a business wants to be closer to a factor such as its customers.		or; Where should the business be based?		
		ting Mix: How will the company market their product?		
	J. Market	and max now win the company market then product:		

GCSE Business. Paper 1. Making the Business Effective

27. A private limited company (Limited Liability)	29. Key Words: Making your business effective		
	Term	Definition	
	Bankrupt		
Benefits of Limited companies.	Private Limited		
	Company		
	Sole Trader		
	30. Franchising		
28. Sole Trader (Unlimited Liability)			
Why ignore Limited Liability?			
	31. What are th	ne benefits of Franchising for a entrepreneur?	
33. Business Locations			
	36. Marketing N	Mix	
	The four factors	s that make up the marketing mix, usually referred to as the marketing mix. Usually referred	
	to as the four p		
	Product		
	Price		
	Promotion		
	Place		
34. How has the internet impacted business location:	37. What is a bu		
		ment setting out the marketing and financial thinking behind a proposed new business.	
	38. What shoul	d a good business plan contain?	

Food Spoilage, Contamination and Food Poisoning

Food spoilage As soon as food is harvested, slaughtered or processed it starts to change. This happens for two main reasons: •autolysis – self destruction, caused by enzymes present in the food; •microbial spoilage – caused by the growth of micro-organisms, i.e. bacteria, yeasts and moulds.	 Physical contamination This can occur in a variety of ways at different stages of food processing and production. Some examples are: soil from the ground when harvesting; a loose bolt from a processing plant when packaging; a hair from a chef in the kitchen. 	Food Bacteria need a source of food to grow and multiply, these food are usually high in moisture, fat and protein, and may be ready to eat. Food where bacteria rapidly multiple in is called a high risk food. For example: •meat, meat products and poultry;	E Coli 0157 Sources Raw and undercooked meat and poultry. Unwashed vegetables. Contaminated water. Signs and symptoms Onset usually 3-4 days.	Key terms Bacteria: Small living organisms that can reproduce to form colonies. Some bacteria can be harmful (pathogenic) and others are necessary for food production, e.g. to make cheese and yogurt.
Food spoilage: Autolysis - enzymes Enzymes are chemicals which can cause food to deteriorate in three main ways: •ripening - this will continue until the food	Bacterial contamination Most bacteria are harmless but a small number can cause illness. These are known as pathogenic bacteria. Food which is contaminated with pathogenic bacteria	 milk and dairy products; eggs – uncooked and lightly cooked; shellfish and seafood; prepared salads and vegetables; cooked rice and pasta. 	Diarrhoea, which may contain blood, can lead to kidney failure or death.	Binary fission: The process that bacteria uses to divide and multiply. Cross-contamination: The transfer of bacteria from one source to another. Usually raw food to ready to eat food but can also be the transfer of bacteria from unclean hands, equipment, cloths
 becomes inedible, e.g. banana ripening; browning – enzymes can react with air causing certain foods, e.g. apples, to discolour; oxidation – loss of nutrients, such as vitamin C from food, e.g. over boiling of green vegetables. 	can look, taste and smell normal. Bacteria can be transferred onto food through cross-contamination, via equipment, people or pests, or can be naturally present in the food. Some bacteria can produce toxins which can cause food poisoning.	Time Given the right conditions, one bacterium can divide into two every 10- 20 minutes through a process called binary fission.	Sources Unpasteurised milk and dairy products, cook-chill foods, pate, meat, poultry and salad vegetables. Signs and symptoms Onset 1-70 days. Ranges from	 Food spoilage: The action of enzymes or microorganisms which make the food unacceptable to consume. Food poisoning: Illness resulting from eating food which contains food poisoning micro- organisms or toxins produced by micro-
Food spoilage: Microbial spoilage Spoilage can be caused by the growth of: •bacteria - single celled micro- organisms which are present naturally in the	Micro-organisms Micro-organisms need conditions to survive and reproduce these can include: •temperature;	People at high risk of food poisoning Elderly people, babies and anyone who is ill or pregnant needs to be extra careful about the food they eat.	mild, flu-like illness to meningitis, septicemia, pneumonia. During pregnancy may lead to miscarriage or birth of an infected baby.	organisms. Toxin: A poison produced by some bacteria which can cause food poisoning.
 environment; yeasts - single celled fungi; moulds - fungi which grow as filaments in food. 	•moisture; •food; •time; •oxygen and pH level.	Symptoms of food poisoning Food poisoning can be mild or severe. The most common symptoms are: •feeling sick;	Salmonella Sources Raw meat, poultry and eggs. Flies, people, sewage and contaminated	Allergens Allergenic ingredients can cause adverse reactions in some people. Care must be taken at each stage of food processing to prevent contamination.
Food contamination Food contamination can lead to food	Temperature Bacteria need warm conditions to grown and multiply.	 being sick; diarrhoea; abdominal pain. 	water. Signs and symptoms Onset 6-48 hours. Headache,	
poisoning. There are three ways which food can be contaminated: bacterial , chemical and physica l.	The ideal temperature for bacterial growth is 30°C - 37°C. Some bacteria can still grow at 10°C and 60°C. Most bacteria are destroyed at	Campylobacter Sources Raw and undercooked poultry, unpasteurized milk, contaminated	general aching of limbs, abdominal pain and diarrhoea, vomiting and fever. This usually lasts 1 – 7 days, and rarely is fatal.	Desirable food changes Desirable changes that can be caused by micro-organisms include: •bacteria in yogurt and cheese production; •mould in some cheeses, e.g. Stilton; blue cheese
Chemical contamination temperatures above 63 °C. water. Chemical contamination can occur in a variety of ways at different stages of food processing and production. For example, •Bacterial growth danger zone is 5°C - 63°C. water. At very cold temperatures, bacteria •Chemical contamination can occur in a variety of ways at different stages of food processing and production. For example, •Hemical contamination can occur in a contaminatin contaminatin contamination can occur in a contaminatin			Staphylococcus aureus Sources Humans: nose, mouth and skin. Untreated milk. Signs and symptoms Onset 1 – 6 hours. Severe	•yeast in bread production. KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T4
	Moisture Where there is no moisture bacteria cannot g both produce spores which can survive until v		vomiting, abdominal pain, weakness and lower than normal temperature. This usually lasts 6 – 24 hours.	

Food Spoilage, Contamination and Food Poisoning

Food spoilage As soon as food is harvested, slaughtered or processed it starts to change. This				
happens for two main reasons: •autolysis –	Physical contamination This can occur in a variety of ways at different stages of food processing and	Food Bacteria need a source of food to grow and multiply, these food are usually high	E Coli 0157 Sources	KS4 FOOD AND NUTRITION
•microbial spoilage -	production. Some examples are:	in moisture, fat and protein, and may be ready to eat. Food where bacteria		KNOWLEDGE ORGANISER T3
	-	rapidly multiple in is called a high risk food . For example:	Signs and symptoms	Quiz
Food spoilage: Autolysis – enzymes Enzymes are chemicals which can cause food to deteriorate in three main ways: •ripening	Bacterial contamination Most bacteria are harmless but a small number can cause illness. These are	-		Key terms Bacteria:
•browning	known as pathogenic bacteria. Food which is contaminated with pathogenic bacteria can look, taste and smell normal.	-	Listeria Sources	Binary fission:
•oxidation	Bacteria can be transferred onto food through cross-contamination, via equipment, people or pests, or can be	Time Given the right conditions, one bacterium can divide into two every 10-		Binary fission.
	naturally present in the food. Some bacteria can produce toxins which	20 minutes through a process called	Signs and symptoms	Cross-contamination:
Food spoilage: Microbial spoilage Spoilage can be caused by the growth of: •bacteria •yeasts	can cause food poisoning. Micro-organisms Micro-organisms need conditions to survive and reproduce these can include:	People at high risk of food poisoning		Food spoilage:
•moulds	- - -	Symptoms of food poisoning Food poisoning can be mild or severe. The most common symptoms are:	Salmonella Sources	Food poisoning:
Food contamination Food contamination can lead	Temperature	-	Signs and symptoms	Toxin:
toThere are three ways which food can be contaminated:	Bacteria need warm conditions to grown and multiply. •The ideal temperature for bacterial growth isSome bacteria can still grow at 10°C and 60°C. •Most bacteria are destroyed at	- Campylobacter Sources		Allergens Allergenic ingredients can cause adverse reactions in some people. Care must be taken at each stage of food processing to prevent contamination.
	•Bacterial growth danger zone is	Signs and symptoms	Staphylococcus aureus Sources	Desirable food changes Desirable changes that can be caused by
Chemical contamination Chemical contamination can occur in a variety of ways at different stages of food processing and production. For example:	•At very cold temperatures, bacteria become they do not die, but they cannot grow or multiply.		Signs and symptoms	micro-organisms include: -
	Moisture Where there is no moisture bacteria cannot g both produce spores which can survive until v			-

and and	
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Year 10 PRODUCT DESIGN Term 4



A. Finite Resou	irces	What we	are learning th	is term:	D.	Electronic Suc	toms	E.	Metals & Alloys			
			-									
Finite resources will ev	entually run out.	A. Finite Resources B. CAD C. Renewable D. Electronic Systems E.				Input / Sen	sor	Metals	are extracted from			
C	oal	Metals &	Alloys F. Su	face Treatments	Light-de resister	ependent	DANA	Ferrou	IS	Non-ferrous		
Advantages	Disadvantages	С.	Renewable	Resources 🛞		es with light		Low-ca steel)	arbon steel (mild	Aluminium		
 Produces high amounts of 	 Produces C02 when burned 	Available	e naturally		Thermi	stor ges with	44193 (181	Cast Ir	on	Copper		
energyEnough to last	 Natural land damage from 		W	ind	temperature			High-c	arbon steel (tool	Tin		
100s of years	mining	Advanta	ages	Disadvantages	Piezoe	ectric Sensor		steel)		Zinc		
Natur	al Gas		stantly	 High start up Low wind = no 		ges with sound	\bigcirc	Contai	n iron and are	Do not contain iron,		
Advantages	Disadvantages		available Low vind = no energy		/ electric energy		· ·	etic, prone to	not magnetic. Do not			
Emits less CO2	Highly flammable			Eyesore	F	Process / Contro	ol Device	rust.		rust.		
 UK has shale deposits 	Pollutes water		S	olar	Switch		• 1 •	Alloys				
	Dil	Advanta	Advantages Disadvantages		- turn on and off power			Alloys are mixtures of two or more metals to improve its properties or aesthetic.				
Advantages	Disadvantages	 Reduces energy bills 		High start upNo sun = no	Resisto			Brass	Stainless ste	el High-speed steel		
Produces high amounts of	 Creates air pollution 	• Clea	in resource	energy • Eyesore	- to lim current	it flow of		F.	Surface Treat	ments of Timber		
energyEasy to store	Large impact on nature		Т	idal	Microcontroller - programmable		Used to improve their appearance and to enhance certain properties such as durability					
Nuc	clear	Advanta	Advantages Disadvantages		decisions		Paint Oil or					
Advantages	Disadvantages	Long lasting Long lasting Clean resource High start up Unknown impact		Output			Wax					
No harmful gases are	 Power stations close after 40yrs 		Hydro F	lectricity		Speaker - releases sound			Wood Varnish			
released	Disposal is	Advanta	-	-				Stain				
More efficient	difficult & costly	Advanta	<u> </u>	Disadvantages	Motor							
B. CAD		• Valu	ollution les can be	Affects wildlife through flooding	- releas	ses movement		_	Tanalising / Pro			
Computer Aided Desig	n	oper	ned quickly	Eyesore	Light-e	mitting diode		Preservatives can be added to extend the lifespan of the timber, protecting it from rot,				
Advantages	Disadvantages		Bio	mass	(LED)	ses light	State 10		and insects.	5		
 Can make quick and easy edits Can be easily shared High quality 	 High start up costs Need training Computer issues e.g. freeze 	used • Repl	ages Preleased d by plants lacements be grown	 Disadvantages Creates pollution when burned Takes up land needed 						sure-treated timber will no need to paint, s		

SF.				Year 10 PRODUCT	DESIGN Term 4		SFC		
A. Finite Resour	s term:	D. Electronic Systems E. Metals & Alloys							
Finite resources will		A. Finite Resources B. CAD C. Renewable D. Electronic Systems E.			Input / Sen	sor	Metals a	are extracted from	m
Co	al	C. Renewable D. Electronic Systems E. Metals & Alloys F. Surface Treatments				Inno	Ferrous	5	Non-ferrous
Advantages	Disadvantages	C.	Renewable F	Resources 🛞	=				
•	•	Renewa	able resources	are		ANCO AL			
		Wind			=				
•	•	Advanta	ages	Disadvantages					
Natura		·		•	=	Re	Contain iron and are magnetic, prone to		Do not contain iron, not magnetic. Do not
Advantages	Disadvantages	•		•			rust.		rust.
•	•		Sc	blar	Process / Contro		Alloys		
		Advantages Disadvantages			=				to
O		•	-9	•		$\nabla \Pi \eta$			
Advantages	Disadvantages	. —		•				_	
•	•			•		-0110	F.	Surface Treat	tments of Timber
•	•	Tidal					Used to		and to
Nucl	ear	Advanta	ages	Disadvantages	=				_ such as
Advantages	Disadvantages	:		•	Output				
•	•		Hvdro E	lectricity	=			MIL	Persitive?
•	•	Advanta	-	Disadvantages					and the second sec
		•		•	=			Tanalising / P	ressure-treated
B. CAD		. —				02062	Preserv	atives can be ac	
CAD stands for			Bior	nass				of the timbe	r, protecting it from
Advantages Disadvantages		Advanta		Disadvantages		10000			
•	•	•		•	2	3	1		ssure-treated timber will e no need to,
:	:							,	,, O



Key learning aims from Component 1

G.



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) including: to educate to inform to entertain to provoke to challenge viewpoints to raise awareness 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.

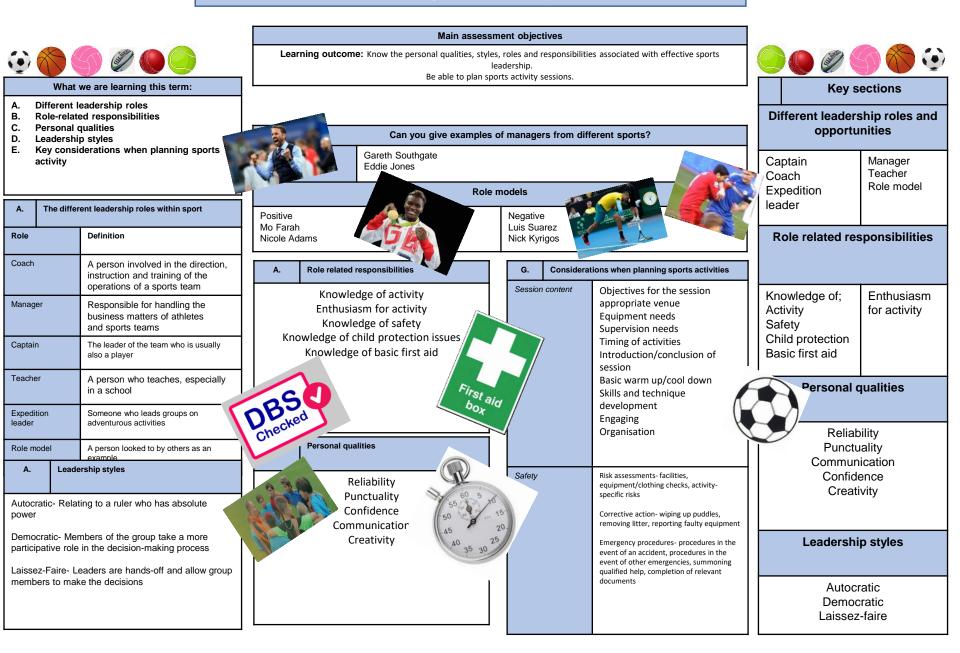
С.	Key question from Assessment objectives								
1. Wha	t are physical skills	1. What is a professional work							
2. Wha	t are interpretive skills	2. What is a practitioner							
3. How	do we use these skills practically?	3. How do we analyse a performance							
4. How	do we IMPROVE on these skills?	4. What are a practitioners creative intentions							

G. Reyleanin		E.	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	Practitio	ners	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	Perform	ance material	The practical work that a practitioner creates for performance.
	audience. Roles and responsibilities in theatre.	Creative	e Intentions	The ideas behind the choreography, why the choreographer choose to create the work.
Learning aim B:	Processes used 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	 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.		es	How the practitioner has been influenced by others, their experiences, their training and how this has affected the work they create.
		Physica	l skills	The physical attributes that an actor uses, stamina, strength, flexibility, control, to dance with technical accuracy.

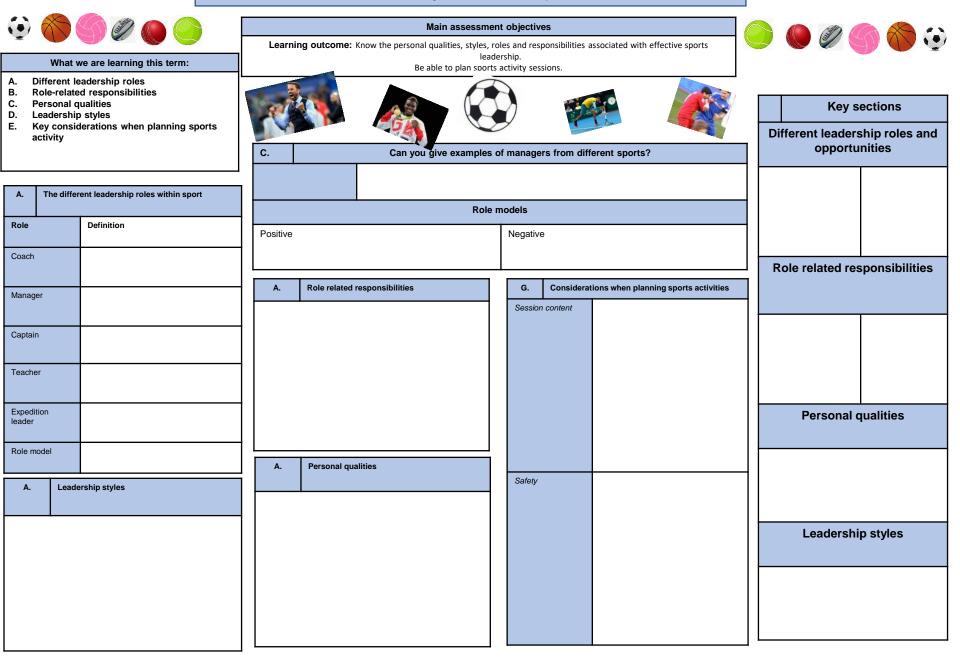




What we are learning this term:	C. Key question from Assessment obje	ctives			
 A. Understanding professional works B. What is a professional work C. What is a practitioner D. How do we analyse a performance E. What are physical skills F. What are interpretive skills G. Three different performance styles / genres 	1. What are physical skills1. What is a professional work2. What are interpretive skills2. What is a practitioner3. How do we use these skills practically?3. How do we analyse a performance4. How do we IMPROVE on these skills?4. What are a practitioners creative intention				
6 Key Words for this term 1 Practitioners 4 Performance material 2 Physical skills 5 Analyse 3 Interpretive skill 6 Intentions	G. Key learning aims from Component 1 Learning aim A: A1: Professional practitioners' performance material, influences, creative outcomes and purpose	E. Keywords Practitioners			
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? (across all three disciplines/styles) including: to to to to	practitioners' Examineand performance work Examineand performances in order to develop of practitioners' work with reference tos, os and pse. Focus oni of particular i and how artists cte their ideas to ane. Roles and responsibilities in theatre.	Performance material Creative Intentions Review			
A. Component 1 – Key focus In this component of the qualification students will develop their understanding of drama by examining the work of	Learning aim B: Processes used in performance Explore the interrelationships between constituent features of existing performance material Processes used in performance Processes used in performance	Analyse/ Evaluate Influences Physical skills			



Year 10 Cambridge National- Leadership- Term 3



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 n	nain life stages?	C	C What are the 4 areas of growth and development (PIES)?		
B. What are the n C. What are the 4	areas of growth and	Age Group	Life Stage	Developmental Characteristics and Progress	Phys		P = growth patterns and changes	
development (D. How do Huma	PIES)? ns develop physically (P)?	0-2 years	Infancy	stancy Sill dependent on parents but growing quickly and developing physical skills.		Development (P) Q in the mobility of the large a small muscles in the body t		
A. Key words fo	r this Unit	3-8	Early	Becoming increasingly independent,		ш Ш	happen throughout life.	
Characteristics	Something that is typical of people at a particular life stage.	years	Childhood	improving thought processes and learning how to develop friendships.	Deve	lectual elopment	I = how people develop their thinking skills, memory and	
Life stages	Distinct phases of life that each person passes through.	9-18 years	Adolescence	Experiencing puberty, which bring physical and emotional changes.	(I)	Ð	language.	
Growth	Increased body size such as height, weight.	19-45 years	Early Adulthood	Leaving home, making own choices about a career and may start a family.	Deve	otional elopment ⓒⓒ	E = how people develop their identity and cope with feelings.	
Development	Involves gaining new skills and abilities such as riding a bike.	46-65 years	Middle Adulthood	Having more time to travel and take up hobbies as children may be leaving home;	(L) Soci	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			do humans develop physically (P)?				
Language	Think through and express ideas	0-2			ded, walk holding onto something, walk unaided, climb			
development			 stairs, kick and throw, walk upstairs, jump. Fine Motor Development (F) = hold a rattle for short time, reach for an item, pass item from one hand to other, 					
Contentment	An emotional state when people feel happy in their environment, are cared for and well loved		hold betwee	en finger and thumb, scribble, build a tower, use	ards and step to the side, bounce a ball, run on tiptoes,			
Self-image	How individuals see themselves or how they think others see them	3-8	ride a bike, • F = hold a c	catch a ball with one hand, balance along a thin crayon to make circles and lines, thread small be dels with construction bricks, joined up writing, u	line. ads, co	py letters ar	nd shapes with a pencil, make	
Self-esteem	How good or bad an individual feels about themselves and how much they values their abilities.	9-18	 Girls = pube Boys = voic 	erty starts at 10-13 years, breasts grow, hips wid e deepens, muscles and strength increase, erec c and underarm hair, growth spurts.	en, mer	nstruation b	egins, uterus and vagina grow.	
Informal relationships	Relationships formed between family members	19-45		nature, sexual characteristics are fully formed, pe	eak of p	hysical fitne	ess, full height, women at most	
Friendships	Relationships formed with people we meet in the home or in situations such as schools, work or		 fertile. Later in the life stage people may put on weight, hair turn gre was slow down 		ey and	men may lo	ose hair, women's menstrual cycle	
- Francel	clubs	46-65	Women go	/ put on weight, hair turn grey and men may lose through the menopause – when menstruation er	nds and	they can n	o longer become pregnant.	
Formal relationships	relationships formed with non- family/friends – such as teachers and doctors.	65+	Women's ha	ontinue to be fertile throughout life but decrease air becomes thinner, men may lose most of their	hair, sk	in loses ela	asticity and wrinkles appear, nails	
Intimate relationships	romantic relationships.			ittle, bones weaken, higher risk of contracting inf action time, muscle and senses (hearing, sight, t			d illness.	

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

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

What we are learning this term:			F. How do humans develop emotionally (E)?						
		Imans develop intellectually (I)?	Infancy and Early Childhood			Adolescence and adulthood			
	G. How do humans develop socially (S)?		Bondin	ig and att	ttachment achment describe the emotional ties an individual s. It starts in the first year of life between infants	Self-image and Self-esteem Self-image is heightened during adolescence because of the physical changes we experience. Our self-esteem can change			
Infan		At birth brains are already well	and 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 months to 2 years infants understand processes and how things work. Language begins to develop during this stage.		ants and y cared for,	young children, security is mainly the feeling of being safe and loved – it is closely linked with	Security Adolescence may feel insecure because of puberty. Adults may feel insecure about relationships, job security of income. Later in life adults may feel insecure about staying in their own home or going into a care home. Feeling secure helps us cope better with everyday situations.			
			Infants		ng children are content if they have had enough lean and dry and all other needs are met.	<u>Contentment</u> When people feel discontented with aspects of their life – for example, relationships or work – their emotions can be negatively affected.			
childhood more objec of qu probl At 5-		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 pecoming well developed. This helps	Independence Independence is to care for yourself and make your own decisions. Infants are completely dependent on their carer. As children enter early childhood they develop more independence – feed self and get dressed. However, children still need a lot of help from their carer.			Independence Adolescence are dependent on their parents but are beginning to enjoy more independence and freedom to make their own choices. Adults enjoy living independently and controlling their own lifestyle and environment. Later in adulthood people become more dependent on others again.			
		them to talk about the past and anticipate the future.	G.		How do humans develop socially (S)?				
Adole	escence	During this time abstract thought is	Life St	age	Types of relationships and social development				
71001		developed – thinking logically and solving complex problems are	Infancy	/	 Solitary Play - From birth to 2 years, infants te carer; they may be aware of other children bu 	nd to play alone although they like to be close to their parent or t not play with them.			
4		possible by the end of this life stage. Adolescents may find it difficult to understand the consequences of their actions but they are developing empathy – seeing things from another's point of view.	Early childho						
Early Midd Adult		By these life stages most adults have a good range of general knowledge. They use this knowledge and	Adoles	scence	 People become more independent and build r Social development closely linked to emotions Often strongly influenced by peers – 'peer grown's peers' of the strongly influenced by peers' peer grown's peers' peer grown's peers' pee).			
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. 					
Later adult		During this life stage people continue to learn and develop intellectually, however, their speed of thinking and	Middle adulthc		 Children have often left home, but there are lii Social circles may expand through travel, spe 				
ຕໍ ່າ		however, their speed of thinking and memory may decline. This may affect their ability to think through problems and make logical decisions.	Later adultho	bod	 Social circles may expand through travel, spending more time on hobbies or joining new groups. 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.					
		umans develop intellectually (I)? umans develop emotionally (E)?	Infancy and Early Childhood			Adolescence and adulthood		
G.	G. How do humans develop socially (S)?			ng and At	ttachment	Self-image and Self-esteem		
Ε.	How do h	numans develop intellectually (I)?						
Infar	псу							
			<u>Securi</u>	ty		Security		
F	J-\							
			<u>Conte</u>	ntment		Contentment		
Early childhood		Indepe	endence		Independence			
1	R							
	T		G. How do humans develop socially (S)?		How do humans develop socially (S)?			
	_		Life St	age	Types of relationships and social development			
Ado	escence		Infancy	/				
Į			Early childho	od				
			Crindric	Jou				
	_							
Earl	y and		Adoles	cence				
Midd Adul	lle thood		Early					
			adultho	bod				
	Later adulthood		Middle adultho					
			Later					
\mathbf{f}		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.	how others respond develop negative self-esteem. Could lead						
their	Social Development Physical characteristics or disease may affect opportunities or confidence in building friendships May cause difficulty in having opportunitie socialize with other and build wider related								
how much Include	and becoming independent.								
cohol or	J. How do	es lifestyle affect development?							
mething	Lifestyle choices include; diet, exercise, alcohol, smoking, sexual relationships and illegal drugs, appearance.								
ence that	 Positive lifestyle Healthy hair, Positive self-i Energy and s 	estyle choices lead to: erweight or underweight nergy							
nder.	 Energy and stamina Good health Emotional security III health 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.								
and strives	Positive self-ima	can affect the way we view ourselves- se	Negative self-image						
ople	 Feel good about yourself. Healthy hair, skin, nails and teeth Big social circle. 								
individual	 High self-esteem. High self-confidence. Can lead to anxiety or depression Can lead to self-harm Negative impact on building relationships- social circle 								
ind income.									

What we are lear	ning this term:	I.	How do	physical factors affect develop	ment?			
J. How does life K. How do socia development? L. How do relatio development?	onships and isolation affect	Physical Develop Intellecto Develop	ment ual	<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?	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			at we are learning this term:			R
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.culture/religion: • Feeing discriminated against by people who do not share their religion/culture which leads to low self-image		1	In adolescence, young people often argue with parents because they want more independence- negative affect on family relationships- can lead to isolation from them.	give fam	ring enough money es individuals and their ilies feeling of content security	Not having enough money causes stress and anxiety.
Good self-esteem 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	ring enough money ans that the whole ily is eating healthy.	Not having enough money can mean that the family is not about to eat well balanced diet, and this has a negative
Community refers to: local area where people live, school, religious group or hobby clubs. They have common values and goals.		3	3 Relationships are important because they effe		effect on their physical development	
Belonging to a community:Not belonging to a community:• Brings sense of belonging essential for emotional development.• Minimal contact with others- isolation• Building and maintaining relationships- social development• Anxiety leading to depression• Feeling of security.• Making negative lifestyle choices• Increases self-image and self-confidence• Slow self-image and self-confidence		4	The breakdown of personal relationships can have a negative effect on persons PIES development:	enc the	Elderly people rely on state pension to live which is no enough and have to cut down on travel, shopping, bills therefore it speeds their aging process and lead to health decline.	
		Low self-esteem, loss of confidence, stress.			ng in good housing open spaces:	Living in a poor housing with cramped and damp
		5	Isolation can happen when individuals do not have the opportunity of regular contact with others. They have no one to share their feelings, thoughts and worries with resulting in feeling insecure and anxious.	·	Feeling good about themselves Be more likely to stay healthy, Space to take exercise Feel safe ad secure	 <u>conditions:</u> Have low self-esteem and self-image Be more likely to experience ill health Be lesson likely to
Traditionally, men and women had distinctive responsibilities and expectations which for their gender called gender roles . However, nowadays UK equality legislation stops		6	Isolation can happen because they live alone, are unemployed or retired, are discriminated against or have an illness or a disability.		Warmth	exercise Anxious and stressed.
 people being discriminated against because of their gender. What happens when people face discrimination because of gender: They might be excluded from a group They may be refused promotion at work They may be expected to carry out a particular role They may be paid less. 		7	People have role models- infants learn by copying others, and adolescence base their identity on their role models. Role models can influence how people see themselves compared to others and their lifestyle chices0 can be positive or negative.	nev pos per bec mol	erial possession like a phone or coat has a itive effect on the sons development ause they might have re friends as they look er, high self-image.	Not having a phone or the newest trainers can have a negative affect in the persons self-image and self-esteem. They might feel isolated from others.

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

What we are learning this term:		0.	How do people deal with life events?			
 N. What are life events? O. How do people deal with life events? P. How is dealing with life events supported? N. What are 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. 			
		Factors	 Factors that may affect how people cope with life events: age, other life events happening at the same time, the support they have, their disposition (their mood, attitude and general nature), their self-esteem, their resilience (how quickly they recover). 			
N. What a	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 to existing relationships such as divorce.	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		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		
supported?		Factors		
N. What are life events?		Adapting		
Life Ev	vents		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	
Physic			Information and Advice	
			Practical Help	
Relatio Chang				
e nang	,		Informal Support	
			Professional Support	
Life Circun s	nstance		Voluntary Support	

Creative Imedia – Term 3 Hardware, Software, File Types, File Properties, Legislation

ltem	Meaning	Examples	Visual
Hardware	Physical devices and equipment that are used to create hard copies or digitise content for pre-production documents or products.	Desktops, Laptops, Notebooks, Tablets. Mouse, Keyboard, Graphics Tablet, Microphone, Monitor, Speakers, Printer, Camera, Scanner, Pens, pencils, rulers, paper.	
Software	Types of applications or programs installed on a device which can be used to create, modify or digitise pre- production documents or parts of a product.	Word Processing, Presentation, Publisher, Spreadsheets, Dreamweaver, GIMP, Audacity, Web Browsers	
Bitmap Images	Bitmap images are also known as 'raster graphics'. They consist of pixels which are small blocks of colour. These pixels are arranged to create the entire image. When you scan or take a photo of something, it is a bitmap image where each pixel is mapped out.	File Types: .bmp .jpeg .jpg .gif .png .tiff .psd	sS
Vector Images	Vector images are created digitally and use basic geometric shapes such as lines, dots, curves and polygons. Using mathematical expressions and formulas, these can be built, edited and scaled without degrading image quality.	File Types: .svg .ps .eps .svf .ai	SS
DPI and PPI	Dots Per Inch relates more to printed graphics, the amount of ink dots on a printed image. Pixels Per Inch refers to a screen display, the resolution in pixels of a digital image. Increasing the PPI also increases the file size but also increases the quality when printed out.	Resolution 1600*900 4k 600*800	Pixel count PPI

Creative Imedia – Term 3 Hardware, Software, File Types, File Properties, Legislation

Legislation	Summary	Content
Copyright & Trademarks	Protection creations from being used or modified without permission.	If its published it has copyright protection. 'Published' includes books, magazines, music, movies, all content on the internet. To use a published resources you must: Contact the owner Ask for permission to use it Often you will need to pay a fee
Copyright – Open Licenses	Some people are happy for their products to be used by others but still want to have some protection.	Creative Commons: A license agreement the creator chooses that lets you use that person's resources. However, you will still need to cite the source.
Certification	Different countries have laws on what is allowed to be seen and shown.	Certification is the process of informing the audience broadly on the suitability of content. Certification is a major aspect when thinking about your target audience
Data Protection	A series of UK laws designed to protect individuals and their personal data	Organisations can not collect and keep your personal information without following this law. Everyone has right to view and correct data. Data has to be accurate, for a specific purpose and secure. The company could be fined if they fail to protect your data.
Defamation	Can't say negative things about someone/an organisation without proof	Written defamation is known as libel. Spoken defamation is known as slander.

Risk of Working with Computers	Safe Practice / Solutions
Eye Strain - Eyes can become strained after staring at a computer screen for a long time especially when working in bad light or with a poor screen.	Use a screen filter Make sure you work in suitable light Don't sit too close to the screen Take regular breaks (5 mins per hour) Have regular eye tests Have blinds available to avoid glare on the screen
Back Pain - This can be due to poor posture or sitting in an awkward position.	Use a fully adjustable chair Use footrests so that legs are at a natural angle Take regular breaks to walk around Don't slouch Have the monitor at eye level
RSI - Repetitive Strain Injury is damage to the fingers and wrists due to repeated movements over a long period of time.	Use wrist rests Take Regular breaks Ensure workstations are the correct height

