# 100% book - Year 10 GS

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



# Term 1

Swindon Academy 2024-25					
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."





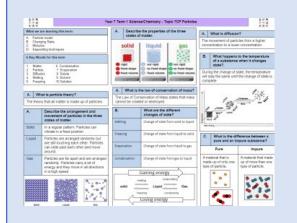






# How to use your 100% book of Knowledge Organisers and Quizzable Organisers

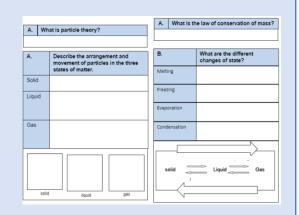
## **Knowledge Organisers**



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.

#### **Quizzable Knowledge Organisers**



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

Use them to test yourself or get 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 quiz yourself again and again!

# **Expectations for Prep and for using your Knowledge Organisers**

- 1. Complete all prep work set in your subject prep book.
- 2. Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
- 3. Take pride in your prep book keep it neat and tidy.
- 4. Present work in your prep book to the same standard you are expected to do in class.
- 5. Ensure that your use of SPAG is accurate.
- 6. Write in blue or black pen and sketch in pencil.
- 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.
- 10. Review your prep work in green pen using the mark scheme.

## Year 10 - ENGLISH - Poetry cluster 1: The Romantics- Grammar

Key Vocabula	ry	Poem	Context	Events in the poem	Message	Form/ structure	
Tyrant	A cruel and unfair ruler	The Prelude- William Wordsworh	Born in in 1770, Wordsworth was orphaned at 13 and sent to a grammar school.      Whilst he was there, he was	<ul> <li>An autobiographical account of Wordsworth as a boy.</li> <li>The poem focusses on a boy stealing a boat and rowing it into the middle of a lake.</li> <li>Whilst there he feels as though nature is judging him</li> </ul>	Nature has the power to inspire and destroy and so should be respected.     Nature can be overwhelming and render us feeling small and insignificant. It can	The poem is written in blank verse and uses iambic pentameter to mimic the conversational flow of speech. It is not split into separate stanzas but flows continuously- much like the power of nature over us.  It is an epic poem (poems that	
Transient	Lasting for only a short time		influenced by the countryside surrounding him.  The poem you study is just a section	and feels guilt for his theft.  • He returns the boat, but the memory stays with him	remind us of our flaws and inspire us to do better.  • Imagination and memories are powerful.		
Hubris	Having extreme pride or self- confidence		of an epic poem and was originally going to be called 'The Recluse'.  The poem is mostly		They can cause us to permanently change our outlook.		
Oppression	When leaders treat people in a cruel or unfair way over a long period of time.	Mulant Bushara B.	autobiographical.	The section of the country (the Duby) show it?			
Patriarchy	A society where men have the most power and control	My Last Duchess- Robert Browning	Browning was inspired by the writing of radical poets such as Shelley     Written in 1834, it is inspired by the	The speaker of the poem (the Duke) shows a visitor through his palace. He stops before a portrait of the late Duchess who has died. The Duke reminisces about the portrait sessions and	Browning makes us question whether the expectations of society are too oppressive, especially for women; strict rules should not be imposed on others and there	Dramatic monologue- reflective of the Duke's egocentricity     The regular meter and rhyme scheme (rhyming couplets) demonstrate the	
Egocentric	Thinking only of oneself		actions of an Italian duke who married a young girl, who died in suspicious circumstances.	about the Duchess. His musings give way to a rant about her disgraceful behaviour: he claims she flirted with everyone and did not appreciate his "gift of a nine-	should be equality of power in society.  • The power of humans is exposed as having	Duke's control over the narrative and how he has carefully constructed his argument.	
Awe	A feeling of deep respect mixed with fear or wonder		Browning moved to Italy to marry his wife because of her overprotective father. As a result, he	<ul> <li>hundred-years- old name."</li> <li>As his monologue continues, the reader realises that the Duke caused the Duchess's early death: when her</li> </ul>	potential dangers and Browning warns us that evil can take many forms – we should not be deceived by the outward appearance of someone; anyone can be cruel.  Furthermore, Browning shows how unattractive arrogance is; it can lead to the abuse of power. He warns us of the consuming nature of pride and jealousy: they can take over	However, some of the rhyming couplets are subdued by enjambment so are hidden when listening to the poem. This is reflective of the Duke's true nature. Beneath his wealth and status, he is no more than a murderous villain.	
Radical	Wanting to see extreme changes in politics and society		was familiar with over-controlling patriarchs.	behaviour escalated, "[he] gave commands; / Then all smiles stopped together."  Having made this admission, the Duke returns to the business at hand: arranging another marriage, with another young girl.			
Ephemeral	Lasting a very short time						
Autocratic	A ruler who has complete power and makes decisions without asking anyone else's advice						
Sinister	Something that seems evil or harmful	Ozymandias- Percy Shelley	Shelley was considered to be a radical due to his atheism and his opposition of the church and monarchy	The poem imagines a traveler describing the broken statue of Ozymandias in the vast expanse of the empty desert. In the poem, the tyrannical Ramesses II believed himself	Shelley wanted to communicate how all power is transient – even powerful individuals are no match against nature and time.     Shelley warns tyrants that they are vulnerable; they should not be arrogant, but instead be humble and accept their own limitations and the ephemeral nature of their power.     The poem offers hope to ordinary people as they are reminded that no one's power	Sonnet- Sonnets are typically love poems written in iambic pentameter. They are 14 lines long and have a strict rhyme scheme. The use of the sonnet form is reflective of Ramesses' love of power whilst the rigid structure is symbolic of both Ozymandias' oppressive rulership. It could also reflect the poet's lasting power and control over the way we remember Ozymandias – far outlasting the power of Ramesses II.     Shelley also breaks the conventional sonnet form which could symbolise how the power of tyrants is ephemeral.	
Revolution	A large group of people using force to change the political system of their country	STATE OF THE PARTY	The poem is inspired by an Egyptian pharaoh, Ramesses II. Rameses II was remembered for	to be 'king of kings' and that his power would be eternal.  Rameses II was remembered for leading armies into many battles and building a huge empire.  However, to do this he used slave  to be 'king of kings' and that his power would be eternal.  However, where a great empire once stood, now only sand and ruins remain.  Shelley uses the poem to demonstrate the transient nature of political power and as a metaphor for his			
Exploit	Treating someone unfairly in order to benefit from them.		and building a huge empire.				
Anti- establish- ment	Disagreeing with the people who have power and make decisions		struggle whilst he invested huge sums of money into expanding his kingdom.		can last forever. Shelley reminds us that the power of art and artists endures over the power of kings – particularly tyrants.		
Romanticism	:	London- William Blake	Born in London in 1757, Blake was anti-establishment and opposed	Walking through through London's streets, the speaker notices how the course of the Thames seems to be	Blake wanted to highlight the desperate suffering of the poor in 19th century	Blake uses regular stanzas and a regular rhyme scheme which reflects the	
Fron     Duri     place     intel     Esta     mon     The     imag     They     instit     mon     expl	ovement in literature and the arts in around 1800-1890 mg this time, major transitions took in society, as dissatisfied lectuals and artists challenged the blishment (the church and the archy). Romantics valued freedom, gination, emotion and nature were critical of power that tutions (such as the church and archy) had as they believed that they oited the poor and restricted people's doms		many of the things he saw in London. He believed that the government, the church and the monarchy were to blame for the widespread suffering he saw on London's streets.  During this era, life was difficult for the poor. There was much sickness, disease and the children of poor parents would have had to work hard and dangerous jobs, such as chimney sweeping.	dictated as it flows through the city.  The speaker sees sadness in the faces of every person he passes and hears pain in every voice in the city. Every law and restriction oppresses the people of London.  He hears the cry of young chimney-sweeps, whose misery brings shame on the Church authorities. Thinking of British soldiers dying in vain, the speaker imagines their blood running down the walls of a palace.  He also hears the cries of young prostitutes, who curse at their situation. This miserable sound brings misery to their tearful new-born children. The speaker also imagines this sound plaguing what the speaker calls "the Marriage hearse"—a surreal imagined vehicle that carries love and death together.	Britain.     Blake believed people should be supported and cared for by institutions of power such as the church, the government and the education system.	monotony of the pain and suffering that the people of London face. The controlled structure is also symbolic of the control that the Establishment has over society.	
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#### Year 10 - ENGLISH - Poetry cluster 1: The Romantics- Grammar



	Year 10 - ENGLISH – Poetry cluster 1: The Romantics- Grammar								
Poem	Context	Events in the poem	Message	Form/ structure					
The Prelude- William Wordsworh	Born in in 1770, Wordsworth was orphaned at 13 and sent to a grammar school. Whilst he was there, he was influenced by the countryside surrounding him. The poem you study is just a section of an epic poem and was originally going to be called 'The Recluse'. The poem is mostly autobiographical.	An autobiographical account of Wordsworth as a boy. The poem focusses on a boy stealing a boat and rowing it into the middle of a lake. Whilst there he feels as though nature is judging him and feels guilt for his theft. He returns the boat, but the memory stays with him	Nature has the power to inspire and destroy and so should be respected. Nature can be overwhelming and render us feeling small and insignificant. It can remind us of our flaws and inspire us to do better. Imagination and memories are powerful. They can cause us to permanently change our outlook.	The poem is written in blank verse and uses iambic pentameter to mimic the conversational flow of speech. It is not split into separate stanzas but flows continuously- much like the power of nature over us. It is an epic poem (poems that					
My Last Duchess- Robert Browning	Browning was inspired by the writing of radical poets such as Shelley Written in 1834, it is inspired by the actions of an Italian duke who married a young girl, who died in suspicious circumstances. Browning moved to Italy to marry his wife because of her overprotective father. As a result, he was familiar with overcontrolling patriarchs.	The speaker of the poem (the Duke) shows a visitor through his palace. He stops before a portrait of the late Duchess who has died. The Duke reminisces about the portrait sessions and about the Duchess. His musings give way to a rant about her disgraceful behaviour: he claims she flirted with everyone and did not appreciate his "gift of a nine-hundred-years- old name." As his monologue continues, the reader realises that the Duke caused the Duchess's early death: when her behaviour escalated, "[he] gave commands; / Then all smiles stopped together." Having made this admission, the Duke returns to the business at hand: arranging another marriage, with another young girl.	Browning makes us question whether the expectations of society are too oppressive, especially for women; strict rules should not be imposed on others and there should be equality of power in society.  The power of humans is exposed as having potential dangers and Browning warns us that evil can take many forms — we should not be deceived by the outward appearance of someone; anyone can be cruel.  Furthermore, Browning shows how unattractive arrogance is; it can lead to the abuse of power. He warns us of the consuming nature of pride and jealousy: they can take over	Dramatic monologue- reflective of the Duke's egocentricity The regular meter and rhyme scheme (rhyming couplets) demonstrate the Duke's control over the narrative and how he has carefully constructed his argument. However, some of the rhyming couplets are subdued by enjambment so are hidden when listening to the poem. This is reflective of the Duke's true nature. Beneath his wealth and status, he is no more than a murderous villain. There are no breaks in the poem to split it into stanzas. This could symbolize the lack of gaps in his fortress. In a patriarchal society, a man of such a high status is protected from the repercussions of his actions.					
Ozymandias- Percy Shelley	Shelley was considered to be a radical due to his atheism and his opposition of the church and monarchy The poem is inspired by an Egyptian pharaoh, Ramesses II. Rameses II was remembered for leading armies into many battles and building a huge empire. However, to do this he used slave labour and allowed his people to struggle whilst he invested huge sums of money into expanding his kingdom.	The poem imagines a traveler describing the broken statue of Ozymandias in the vast expanse of the empty desert. In the poem, the tyrannical Ramesses II believed himself to be 'king of kings' and that his power would be eternal. However, where a great empire once stood, now only sand and ruins remain. Shelley uses the poem to demonstrate the transient nature of political power and as a metaphor for his opposition of the Establishment's power.	Shelley wanted to communicate how all power is transient – even powerful individuals are no match against nature and time. Shelley warns tyrants that they are vulnerable; they should not be arrogant, but instead be humble and accept their own limitations and the ephemeral nature of their power. The poem offers hope to ordinary people as they are reminded that no one's power can last forever. Shelley reminds us that the power of art and artists endures over the power of kings – particularly tyrants.	Sonnet- Sonnets are typically love poems written in iambic pentameter. They are 14 lines long and have a strict rhyme scheme. The use of the sonnet form is reflective of Ramesses' love of power whilst the rigid structure is symbolic of both Ozymandias' oppressive rulership. It could also reflect the poet's lasting power and control over the way we remember Ozymandias – far outlasting the power of Ramesses II. Shelley also breaks the conventional sonnet form which could symbolise how the power of tyrants is ephemeral.					
London- William Blake	Born in London in 1757, Blake was antiestablishment and opposed many of the things he saw in London. He believed that the government, the church and the monarchy were to blame for the widespread suffering he saw on London's streets.  During this era, life was difficult for the poor. There was much sickness, disease and the children of poor parents would have had to work hard and dangerous jobs, such as chimney sweeping.	Walking through through London's streets, the speaker notices how the course of the Thames seems to be dictated as it flows through the city.     The speaker sees sadness in the faces of every person he passes and hears pain in every voice in the city. Every law and restriction oppresses the people of London.     He hears the cry of young chimney-sweeps, whose misery brings shame on the Church authorities. Thinking of British soldiers dying in vain, the speaker imagines their blood running down the walls of a palace.     He also hears the cries of young prostitutes, who curse at their situation. This miserable sound brings misery to their tearful new-born children. The speaker also imagines this sound plaguing what the speaker calls "the Marriage hearse"—a surreal imagined vehicle that carriage love and	Blake wanted to highlight the desperate suffering of the poor in 19th century Britain. Blake believed people should be supported and cared for by institutions of power such as the church, the government and the education system. Blake was appalled that people endured such difficulties and wanted them to break free from the oppressive control. It could be said to be his call to revolution as he subtly hints at the French revolution in which people stood up against oppressive rulership.	Blake uses regular stanzas and a regular rhyme scheme which reflects the monotony of the pain and suffering that the people of London face. The controlled structure is also symbolic of the control that the Establishment has over society.					

surreal imagined vehicle that carries love and death together.

# ENGLISH –Poetry cluster 1: The Romantics- Grammar

Romanticism:		
•		
•		
•		
•		

Key Vocabulary	
Tyrant	
Transient	
Hubris	
Oppression	
Patriarchy	
Egocentric	
Awe	
Radical	
Ephemeral	
Autocratic	
Sinister	
Revolution	
Exploit	
Anti-establishment	

#### **ENGLISH** –Poetry cluster 1: The Romantics- Grammar

The Big Ideas	Notes
With elements of epic poetry running through it, <i>The Prelude</i> demonstrates the immensity of nature's power and its ability to transform our views.	
Browning illustrates the power and protection that wealth and gender can provide and warns of how that power can be used to oppress.	
Shelley establishes that, although power can be used to exploit and oppress, the power of tyrants is transient and can be reclaimed through art.	
Blake highlights the social injustices of London and calls upon society to revolt against the Establishment.	

# Year 10 Grammar Term 1 Science/Biology: B3 – Infection and Response

Nose

lungs.

Stomach

Contains

eaten.

Hairs and mucus

trap pathogens

before entering

to kill pathogens

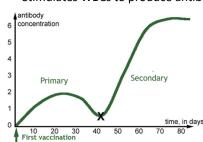
that have been

#### Communicable Diseases – diseases caused by a pathogen

Disease	Pathogen	Symptoms	Spread by	Prevent spread	Treatment
Salmonella	Bacteria	Fever, cramps, vomiting, diarrhoea	Contaminated food	Vaccinating poultry, cooking food thoroughly	Antibiotics or management of symptoms
Gonorrhoea	Bacteria	Yellow/green discharge, pain when urinating	Sexual Contact	Using barrier protection, e.g. condoms	Antibiotics
Measles	Virus	Red rash and fever	Breathing in droplets from coughs/sneezes	Vaccination	No cure – only management of symptoms
HIV	Virus	Flu-like symptoms, develops into AIDS	Sexual contact	Using barrier protection, e.g. condoms	Antiretroviral drugs
Tobacco Mosaic Virus (plants)	Virus	'Mosaic' pattern of discolouration on the leaves	Soil	Destroy infected plants	No treatment
Rose Black Spot (plants)	Fungus	Black spots on leaves	Wind or water	Remove and destroy infected leaves	Fungicides
Malaria	Protist	Recurrent episodes of fever	Insect bites (mosquitoes)	Mosquito nets, insect repellent	Antimalarial drugs

#### Vaccination • Introducing small quantities of dead or inactive forms of pathogen into the body.

Stimulates WBCs to produce antibodies.



- If same pathogen returns (X), WBCs remember how to make the right antibodies.
- They make MORE antibodies, MORE QUICKLY, and they stay in body for LONGER.

#### **Antibiotics & Painkillers**

Antibiotics = kill bacteria (specific antibiotic for specific bacteria) THEY **DO NOT KILL VIRUSES** e.g. penicillin

Antibiotics cannot kill viruses because viruses live inside cells

Painkillers = stop pain (don't kill microbes, just help with symptoms) e.g. paracetamol

#### **Development of Drugs**

Testing for:

- Safety
- Efficacy (does it work)
- Dosage (how much is needed)

Sta	age	Description
pre- clinical		Tested on cells and tissues. Side effects? Efficacy?
2		Tested on animals. Side effects?
clinical		Clinical trials = tested on humans. 1 <sup>st</sup> health volunteers, 2 <sup>nd</sup> patients with the illness. Dosage gradually increased to
		ontimum

### **Non-specific Defence Systems**

Trachea & Bronchi

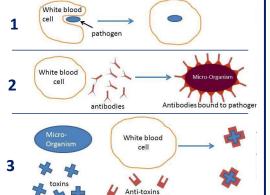
Cilia cells (small hair-like projections from cells) and mucus (produced by goblet cells) rap pathogens.

hydrochloric acid Skin

If damaged, repairs itself (scabs)

#### optimum. White Blood Cells (WBCs)

- 1. Phagocytosis engulfing the pathogen
  - Producing antibodies specific to the antigen
- 3. Producing antitoxins to neutralise toxins



Ye	ar 10 Grammar Term 1 Science/	Bio	logy: B3 – Infection an	d Re	esponse
1. 2. 3. 4. 5. 6. 7.	What is a communicable disease?  What are the symptoms of gonorrhoea?  Which type of pathogen causes rose black spot?  How is measles spread?  How can we prevent the spread of malaria?  What is the <b>treatment</b> for salmonella?  How is salmonella spread?  How can HIV be treated?	1. 2. 3.	What is the only type of pathogen antibiotics can kill?  What do painkillers do?  Why can antibiotics NOT kill viruses?	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	What are clinical trials?  What are the three things we test for before a drug can be used by the public?  What is the first stage of drug testing?  What are drugs tested on in preclinical trials?
1. 2. 3.	What is in a vaccination?  Why do the white blood cells respond more quickly the second time they come into contact with a pathogen?  How does vaccination prevent us from becoming infected with the same pathogen in the future?	1.	How are the trachea and bronchi help prevent infection?  What does the stomach contain to prevent infections?	1. 2. 3.	What is phagocytosis?  What do antibodies attach to?  How to antitoxins make us feel better?

# Year 10 Grammar Term 1 C3 – Quantitative Chemistry

#### **Conservation of Mass**

- Atoms cannot be created or destroyed during reactions.
- Mass of reactants = mass of products.

To show mass is conserved in a reaction:

M<sub>r</sub> on the left-side must be same as the right side.

$$2Mg + O_2 \rightarrow 2MgO$$
  
 $(2 \times 24) + (2 \times 16) \rightarrow 2(24 + 16)$   
 $48 + 32 \rightarrow 2 \times 40$   
 $80 \rightarrow 80$ 

#### **Reacting masses**

atom

Use conservation of mass to predict masses:

magnesium + oxygen 
$$\rightarrow$$
 magnesium oxide  
8g 10g  
Both sides need to be equal:  
 $10g - 8g = 4g$  of oxygen

#### **Percentage Mass**

- Percentage mass of an element in a compound

Mass of the element in compound x 100 Total mass of compound

#### **Example Question:**

Find the percentage mass of oxygen in magnesium oxide (MgO).

 $A_r$  of magnesium = 24

 $A_r$  of oxygen = **16** 

$$M_{r}$$
 of MgO = 24 + 16 = **40**  
% mass =  $\frac{A_{r}}{M_{r}}$  =  $\frac{16}{40}$  = 0.4 x 100 = 40%  
 $\frac{A_{r}}{M_{r}}$  =  $\frac{40}{40\%}$  of the mass of MgO is oxygen

#### The Mole (HT only)

- Avogadro constant 6.02 x 10<sup>23</sup> - One mole contains 6.02 x 10<sup>23</sup> atoms or molecules
- The mass, in g, of one mole is the Ar (if an element) or Mr if a compound or molecular element

Iron has a A<sub>r</sub> of 56, so 1 mole of iron is 56 g and contains 6.02 x 10<sup>23</sup> atoms of iron

Ammonia (NH<sub>2</sub>) has an Mr of 17, so 1 mole of ammonia has a mass of 17g. and contains 6.02 x 10<sup>23</sup> molecules of ammonia

#### **Mass Changes**

- Mass is always conserved in a reaction.
- Sometimes it may seem like the mass has increased/decreased.
- If a **reactant** is a gas mass may **increase**.

magnesium + oxygen → magnesium oxide

Oxygen is in the air before it combines with magnesium – you cannot find the mass of oxygen on the balance.

It will look like the mass has increased when it is re-weighed at the end.

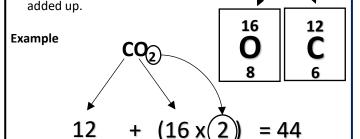


If a **product** is a gas and the gas is able to escape the system – mass will **decrease**.

sodium carbonate → sodium oxide + carbon **∢**dioxide



It will look like the mass has decreased as some of the atoms have been given off as gas and have escaped – so cannot be re-weighed.



Atomic mass (A,) and Relative Formula Mass (M,

Atomic mass (A<sub>r</sub>) is the mass number – ie the mass of one

Relative formula mass  $(M_r)$  = all the **relative** atomic

masses (A<sub>r</sub>) of the atoms in a compound or molecule

Ye	Year 10 Grammar Term 1 C3 – Quantitative Chemistry							
<ol> <li>2.</li> </ol>	What is meant by conservation of mass?  Mass of reactants = ?	1.	How do you calculate the percentage mass of an element in a compound?	Should mass change in a reaction?				
3.	The $M_{\rm r}$ of the left side of an equation must be the same as	2.	What do you do to convert a decimal into a percentage?	If a reactant is a gas, what will happen to the mass?				
				3. Why will it appear this has happened?				
1.	What does M <sub>r</sub> stand for?	1.	How many atoms are in one mole?					
2.	What is the relative formula mass?			4. If a product is a gas, what will happen to the mas?				
3.	Where can you find the relative atomic mass $(A_r)$ of an element?	2.	How do we know what the mass of one mole of an element is?					
		3.	How do we know the mass of one mole of a compound?	5. Why will it appear this has happened?				

# Year 10 Grammar Term 1 C3 – Quantitative Chemistry

#### **Concentrations of Solutions**

- Concentration = mass of dissolved substance in specific volume (eg dm³)
- More substance dissolved = more concentrated solution

 $(g/dm^3)$ 

(g)

(dm<sup>3</sup>)

Can be rearranged to find mass dissolved:

mass = concentration x volume  
(g) 
$$(g/dm^3)$$
  $(dm^3)$ 

(g)  $(g/dm^3)$   $1000 \text{cm}^3 = 1 \text{dm}^3$  $cm^3 \rightarrow dm^3 =$ divide by 1000.

#### Calculating mass in a given volume

If you have a known volume of a solution of known concentration then you can calculate the mass of dissolved solid.

E.g Calculate the mass of dissolved solid in 25cm<sup>3</sup> of a 96g/dm3 solution

25c m<sup>3</sup>

96g/dm3 means 96g in every 1000cm

2.4g

Do the same to the other side (÷40)

How do we get from 1000 to 25?  $(\div 40)$ 

#### Moles and Equations (HT only)

- You can use moles to help you write balanced symbol equations.

#### **Example Question**

18.4g of Sodium reacted with 6.4g of oxygen to give 24.8g sodium oxide. Use the masses to write the balanced equation.

Step	Example
Write the equation for the reaction (unbalanced)	Na + O₂ → Na₂O
write down the mass or % given in the question	18.4 + 6.4 → 24.8
Write the mass of one mole of each element or compound	23 32 62 (e.g 18.4 ÷ 23)
Divide the mass given in question by the mass of one mole	0.8 0.2 0.4
Turn the answers into whole number simple ratio	8 2 4 (cancel down) 4 1 2
Put the numbers into the equation	4Na + O <sub>2</sub> → 2Na <sub>2</sub> O

## Calculating reacting masses (HT)

#### **Example Question**

Calculate the mass of calcium needed to make 11.2g Calcium oxide

Step	Calculation			
Write the balanced equation	2Ca + O <sub>2</sub> → 2CaO			
Write the masses of each substance	80 + 32 <b>→</b> 112			
Write down the given mass in the question.	11.2			
Work out the 'scale' factor (ie what did you have to do to the original number to get to the desired mass	÷ 10			
Do the same to the other side	8g			

#### **Limiting Reactants (HT only)**

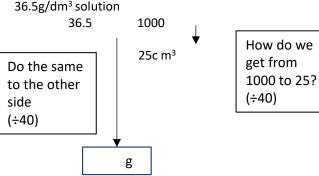
- If one reactant runs out before the other. then the reaction will stop.
- The reactant that runs out first in a reaction is known as the limiting reactant.

# Year 10 Grammar Term 1 C3 – Quantitative Chemistry

- What does concentration mean?
- 2. How can you make a solution more concentrated?
- 3. State the equation to calculate concentration in g/dm<sup>3</sup>.
- 4. What is the unit for volume?
- 5. How many cm<sup>3</sup> are in a dm<sup>3</sup>?

#### Calculating mass in a given volume

- 1. What does 36.5g/dm<sup>3</sup> mean?
- 2. Calculate the mass of dissolved solid in 25 cm<sup>3</sup> of a 36.5g/dm<sup>3</sup> solution



#### **Moles and Equations (HT only)**

12g of magnesium (Mg) reacted with 8g of oxygen ( $O_2$ ) to produce 20g magnesium oxide (MgO). Use the masses to write a balanced equation

Step	Example
Write the equation for the reaction (unbalanced)	
write down the mass or % given in the question	
Write the mass of one mole of each element or compound	
Divide the mass given in question by the mass of one mole	
Turn the answers into whole number simple ratio	
Put the numbers into the equation	

- 1. What is a limiting reactant?
- 2. Complete the calculation: Calculate the mass of calcium needed to make 224g of calcium oxide

Step	Calculation
Write the balanced equation	2Ca + O <sub>2</sub> → 2CaO
Write the masses of each substance	
Write down the given mass in the question.	
Work out the 'scale' factor (ie what did you have to do to the original number to get to the desired mass	
Do the same to the other side	

# Year 10 Grammar Term 1 P5 - Forces

#### **Scalar and Vector Quantities**

**Scalar quantities** – have **magnitude** only e.g. temperature, mass and speed.

**Vector quantities** – have both **magnitude** and **direction** e.g. velocity. displacement.

Vectors can be shown using **arrows**: Size of arrow = magnitude of the quantity Direction of arrow = direction of quantity

#### **Contact and Non-Contact Forces**

Force = a push or pull that acts on an object due to interaction with another object.

All forces are either:

- **Contact forces** objects are physically touching e.g. friction, air resistance, tension and normal contact force.
- **Non-Contact forces** objects are physically separated e.g. gravitational force, electrostatic force and magnetic force.
- Forces are **vectors** shown by arrows.



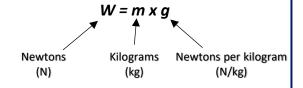
#### Gravity

Weight = the **force** acting on an object due to gravity.

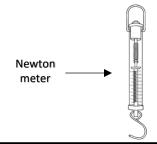
- Gravity close to Earth is due to the gravitational field.
- Weight of an object depends on the gravitational field strength at the point where the object is.

Weight can be calculated using:

weight = mass x gravitational field strength



- Earth's gravitational field strength = 9.8 N/kg
- Weight of an object can be considered to act at a single point = object's 'centre of mass'
- Weight can be measured using a **newton meter**.



#### **Resultant Forces**

Resultant force = The sum of all forces or overall force acting on an object



Bike is being pushed forward with a force of 13N but there are resistive forces of 13N backwards.

Resultant force = 0N

What happens to the motion depends on what the bike was doing before these forces were applied:

- If the bike was stationary, it will stay stationary
- if the bike was moving, it will continue to move at a constant velocity



Car is being pushed to the left by a force of 350N. It is also pushed to the right by 500N.

Resultant force is: 500N - 350N = 150N

What happens to the motion depends on what the car was doing before these forces were applied:

- If the car was stationary, it will **accelerate** to the right
- If the car was already moving to the right, it will move faster (accelerate)
- If the car was moving to the left (ie reversing), it will slow down (decelerate)

Year 10 Grammar Term 1 P5 – Forces				
1. What is a scalar quantity?	1. Define weight.	1.	What is a resultant force?	
2. Give 2 examples of a scalar quantity.				
4. Give 2 examples of a vector quantity.	2. What does the weight of an object depend on?	2.	What happens to a moving object if the forces are balanced?	
1. What is a force?	3. Give the equation which links			
2. Describe what is meant by a 'contact force'	gravitational field strength, mass and weight?	3.	What does 'decelerate' mean?	
3. Give 2 examples of contact forces.	4. What is 'centre of mass'?	4.	If an object is stationary and there is a ON resultant force, what happens to the object?	
	5. How can weight be measured?	5.	What is needed to make an object accelerate?	
4. Give 2 examples of non-contact forces.	6. What is the value for Earth's gravitational field strength?			
5. Are forces scalar or vectors?				

# Year 10 Grammar Term 1 P5 – Forces

#### **Vector Diagrams (HT only)**

- Used to calculate resultant forces that are not acting directly opposite each other, on a straight line.

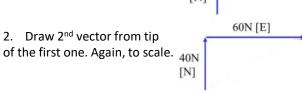
Rules ('tip to tail'):

- Draw first vector to scale, in the direction stated
- Draw second vector, from the tip of the first one in the direction stated.
- · Join the two lines in a triangle and measure the resulting line
- Convert length to force using your scale this is the resultant force

#### Example:

Two forces act on an toy boat - 40N acting north, 60N acting East. Calculate the resultant force and state the direction.

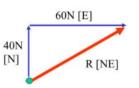
1. Draw the first vector to scale



3. Join the two lines. Measure the resulting line.

2. Draw 2<sup>nd</sup> vector from tip

Resultant force = 72N NE



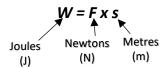
#### **Work done and Energy Transfer**

- When a force acts on an object and makes it move - work is done.

Work done = energy transferred

Work done is calculated by:

work done = force x distance



- One joule of work is done when a force of one newton causes a displacement of one metre.
  - 1 joule = 1 newton-metre

e.g A climber and his gear weigh 750N Calculate the energy transferred top of the

cliff

W = F s

 $W = 750 \times 20 m$ 

W = 15000J

- Work done against the frictional forces acting on an object causes a rise in the temperature.



#### **Forces and Elasticity**

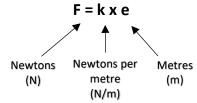
- When work is done on an elastic object (e.g. stretching or compressing a spring), energy is stored as elastic potential energy.

#### **Elastic deformation:**

- When force is applied, object changes shape and stretches.
- When the force is no longer applied, object returns to original shape.

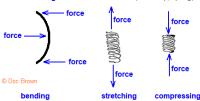
Inelastic deformation = stretched beyond limit will not return to original shape and size.

Force = spring constant x extension



Two forces are needed to stretch or compress

Forces acting on an elastic material (steel strip, spring)



#### Work done in stretching (or compressing) a spring:

elastic

potential = 0.5 x spring constant x (extension)<sup>2</sup> energy

$$E_{e} = \frac{1}{2} \times k \times e^{2}$$

Yea	ar 10 Grammar Term 1 P5 – Forces				
1.	What are vector diagrams used to calculate?	1.	When is work done?	1.	When an elastic object is stretched or compressed, which energy store is filled?
2.	Where do you draw the second force from?	2.	Give the equation which links distance, force and work done?	2.	What is 'elastic deformation'?
3.	3. Two forces act on a boat, pulling it along. The first force is 3N North and the second is 4N East. Follow the rules and draw the forces acting from the point of origin below:	3.	What is work done the same as?	3.	What is 'inelastic deformation'?
		4.	Complete this sentence: One joule of work is done when	4.	What happens to a stretched spring when the force is removed?
		5.	What is the relationship between joules and newton-metres?	5.	What is the equation linking extension, force and spring constant
4.	What is the resultant force on the boat?	6.	What does work done against the frictional forces acting on an object cause?	6.	How many forces are needed to stretch or compress an object?

## Year 10 Grammar Term 1 P5 – Forces

#### **Required Practical**

**Aim**: Investigate the relationship between force and extension for a spring (or any elastic object, eg elastic band)

#### Method

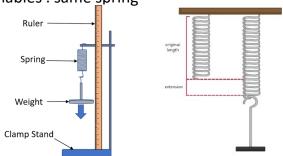
- 1. Hang a spring from a clamp and stand
- 2. Measure original length of the spring and record this.
- 3. Attach a 100g mass record the new length of the spring.
- 4. Continue adding 100g masses recording the length each time, up to a total of 500g.
- 5. Work out the extension for each mass using:

#### final length - original length

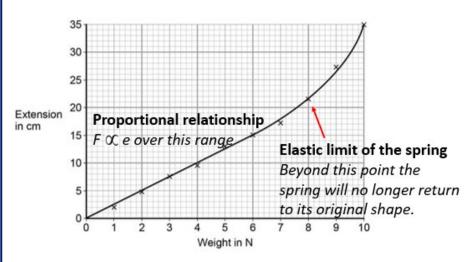
- 6. Repeat steps 1-5 twice and calculate a mean
- 7. Plot a line graph with extension (m) on the x-axis and force (N) on the y-axis.

Independent variable: mass on the spring Dependent variable: extension of the spring

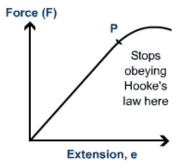
Control variables : same spring



#### Results:



- There is a proportional relationship (shown by a straight line through the origin) at first.
- However, there comes a point when the 'elastic limit' of the spring is reached. This is also known as the **limit of proportionality**.
- If more force is applied after this, relationship is **no longer proportional**.
- After this point, the spring will not return to its original shape and size when the force is removed.

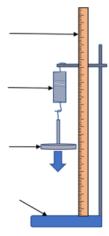


You may see the graphs with the axes switched – with extension on X and force on Y.

gradient of linear part = spring constant, k, for the spring being used.

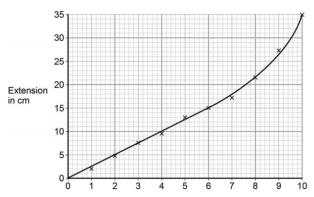
# Year 10 Grammar Term 1 P5 - Forces

- 1. What is the independent variable in the investigation into the effect of force on extension of a spring?
- 2. What is the dependent variable?
- 3. How is the dependent variable measured?
- 4. What range of masses could be used?
- 5. Label the equipment used to investigate the stretching of a spring below:

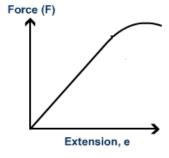


6. Why are repeated readings taken for each mass?

1. Label the X axis for the graph below, including units



- 2. Label the part of the graph that shows force is directly proportional to extension
- 3. Label the limit of proportionality for this spring
- 4. What is the symbol for 'proportional'?
- 5. How could you use a graph like this to calculate the spring constant of this spring?





# GCSE Geography. Paper 2:1. Urban issues and challenges



1. Globa	l pattern of urban change		
The world's population is growing rapidly; currently			
50% of us live	in urban areas.		
	An increasing percentage of a		
Urbanisation	country's population living in towns		
	and cities.		
	Very slow rate of urbanisation.		
HICs	Already have high urban populations.		
HICS	Urbanisation happened earlier (during		
	the industrial revolution).		
	Fast rate of urbanisation due to		
NEEs	industrialisation.		
	Urban population is increasing rapidly.		
	Fast rate of urbanisation.		
LICs	Urban population is low as many still		
	work in farming.		

2. Facto	rs affecting urbanisation
Rural-	The movement of people from a rural
Urban	area (countryside) to an urban area
migration	(towns and cities).
Push	Negative factors that make people leave
factors	an area e.g. drought, famine, war, few
	services.
	Positive factors that attract people to
Pull factors	an area e.g. better access to services,
	better paid jobs, access to electricity.
	When the birth rate is higher than
Natural	death rate; the population grows.
Increase	High in NEE cities as migrants are often
	young and health care is improving.

3. Megacities		
Megacity	A city of more than 10 million people living there.	
How many?	There are now 34. Rapidly increasing.	
Where?	Most are in Africa and Asia.	

4. Key te	rms
Social deprivation	The extent an individual or an area lacks services, decent housing, adequate income and employment.
Dereliction	Abandoned buildings and wasteland.
Urban Greening	Process of increasing and preserving open space in urban areas i.e. parks.
Urban sprawl	Unplanned growth of urban areas into surrounding rural areas.
Integrated Transport System	Different forms of transport are linked together to make it easy to transfer from one to another.
Brownfield	Land that has been used, abandoned and now awaits reuse; they are often found in urban areas.
Greenfield	A plot of land, often in rural areas or on the edges of urban areas that has not been built on before.
Commuter settlements	A place where people live but travel elsewhere for work $e.g.$ Yate $\rightarrow$ Bristol.

5. Sus	tainable urban living
Sustainable urban living	Where people living, now, have the things they need, without reducing the ability of people in future to meet their
urbarriiviiig	needs.
Water conservation	Recycling grey water. ½ flush toilets. Rainwater harvesting on roofs. Permeable pavements- filters pollutants.
Energy conservation	Energy efficient appliances. Energy saving (south facing windows). Use of renewable energy sources.
Waste recycling	Recycling boxes in houses. Recycling facilities nearby. Encourage websites like 'Freecycle'.
Creating green space	Maintain green spaces around towns- Cools area, encourage exercise, happy.

6. Urban transport strategies used to reduce traffic		
congestion		
Problems with congestion	<ul> <li>7 air pollution (global warming).</li> <li>Late for work, deliveries delayed.</li> <li>7 accidents, stress, asthma.</li> <li>In Bristol, 200 people die as a result of air pollution each year.</li> </ul>	
Beryl Bikes	Shared bikes in Bournemouth + Poole.	
Oyster Cards	Quick and easy to pay for more than one type of public transport (London).	
Park and ride	Car parks on the outskirts of a town, with buses into the city centre.	
Congestion charge	Charge for entering the city centre at peak times.	
Bus lanes	Stop buses being held in traffic.	



# GCSE Geography. Paper 2:1. Urban issues and challenges



1. Global pattern of urban change			
The world's population is growing rapidly; currently 50% of us live in urban areas.			
30/0 OI US IIVE	in diban areas.		
Urbanisation			
HICs			
NEEs			
LICs			

4. Ke	y terms
Social	
deprivation	
Dereliction	
Urban	
Greening	
Urban	
sprawl	
Integrated	
Transport	
System	
Brownfield	
Greenfield	
Commuter	
settlements	

6. Urban transport strategies used	
to reduce	traffic congestion
Problems	
with	
congestion	
Beryl Bikes	
Oyster Cards	
Park and ride	
Congestion	
charge	
Bus lanes	

2. ractors arrecting arbamsation		
Rural- Urban migration		
Push factors		
Pull factors		
Natural Increase		

3. Megacities	
Megacity	
How many?	
Where?	

5. Sustainable urban living	
Sustainable urban living	
Water conservation	
Energy conservation	
Waste recycling	
Creating green space	

8. Introduction to Nigeria		
Located just north of the equator, in west Africa.		
Importance of Nigeria		
Global importance	NEE in 2014 > 21 <sup>st</sup> largest economy.	
Local importance	Fastest growing economy in Africa. In 2014 they had the highest GDP.	
Nigeria's context		
Political	Boko Haram have killed 17,000 people since 2002.	
Environment	<ul> <li>Rainforest- south &gt; savanna- north.</li> </ul>	
Social	† 500 ethnic groups † Literacy 61%, life expectancy 52 years	
Cultural	■ Nollywood (2 <sup>nd</sup> largest film industry).	

9. Nigeria's changing industrial structure		
Term Definition		
Industrial structure	The relative proportion of the workforce employed in different sectors of the economy (p, s, t, q).	
Primary sector	Jobs that extract/collect natural resources.   ◆ Decreasing due to mechanisation and industrialisation.  This started rural to urban migration.	
Secondary sector	Jobs making things.  ↑ Increasing (industrialisation).	
Tertiary	Jobs that provide a service.  ↑ Increasing as people start to have more disposable income.	
How does manufacturing stimulate economic development?		
<ul> <li>Factories provide jobs &gt; people have more disposable income &gt; home market enlarges.</li> <li>Companies pay tax &gt; government invests in infrastructure like roads &gt; attracts more companies to invest. Positive multiplier effect.</li> </ul>		

10. Transnational corporations		
Term Definition		
Transnational	Companies that operate in more than	
Corporation	one country. (40 TNCs in Nigeria)	
Host country	Country the TNC places its factories.	
Footloose	Industries not tied to a certain location	
Shell in Nigeria		
	+ 65,000 jobs = > disposable income.	
Advantages	+ 91% contracts to Nigerian	
	companies (reduces economic leakage)	
Dis-	- Bodo oil spill 08/09. 11 million	
advantages	gallons of oil spilt over 20km <sup>2</sup> .	
C	National economic benefits vs local	
Summary	environmental costs in Bodo.	

12. Impacts of economic development		
	🔥 70-80% forests destroyed.	
Impact on	♣ Bodo Oil spill (Shell 08/09).	
the	🔥 10,000 illegal industries = air	
environment	pollution.	
	Loss of species (giraffes, 500 plants).	
	Life expectancy ↑ from 46-52 years	
Impact on	₱ HDI from 0.47 to 0.53.	
quality of life	BUT inequality has widened due to	
	oil wealth and corruption.	
13. Unilever in Nigeria		

13. Office of the Nigeria		
Advantages:	Disadvantages:	
Unilever employs around 1500 people in Nigeria	Unilever is a British-Dutch company so some of the profit leaves Nigeria	
40% of Unilever's profits go to Nigeria in Tax	Workers in factories earn very low wages and have poor working conditions	
Unilever works with local communities to improve education and healthcare	.Manufacturing cause environmental problems such as water and air pollution	

11. Nigeria's changing relationships		
Political	- Gained independence (UK in 1960).	
relationships	- Member of British Commonwealth.	
	- Member of OPEC (oil).	
Trading	- Member of ECOWAS (Western Africa	
relationships	trading group).	
	- Has strong links with China and USA.	
International aid in Nigeria		
Term	Definition	
International	Money, goods and services given to	
aid	help the QoL of another country.	
Emergency	Usually follows a natural disaster or	
aid	war. e.g. Food, water, shelter.	
Develop-	Long term support by charities or	
mental aid	governments to improve QoL. E.g.	
Illelital alu	infrastructure, education, clean water	
	Aid in Nigeria	
What?	4% of aid given to Africa.	
wildt	UK gave £360 million in 2014.	
	Nets to prevent malaria.	
Nets for life	82,500 given out in Abuja.	
	✓ Successful as community based.	
Problems	<ul> <li>Sometimes it isn't sustainable.</li> </ul>	
with aid	- Corruption.	
With aid	<ul> <li>Can be tied (strings attached).</li> </ul>	

13. Shell in Nigeria		
Advantages:	Disadvantages:	
Employs 65,000 people in	260,000 barrels of oil spilt a	
Nigeria	year in the Niger Delta	
Social investment	Bodo oil spills in 2008 and	
programs (e.g., 10	2009, 600,000 barrels of oil	
postgraduate scholarship)	spilt	
Brought in \$17 billion in	Oil bandits: 4.5 trillion barrels	
taxes	of oil lost	

9. Introduction to Nigeria		
	Importance of Nigeria	
Global		
importance		
Local		
importance		
Political		
Environment		
Social		
Cultural		

10. Transnational corporations		
Term	Definition	
Transnational		
Corporation		
Host country		
Footloose		
Shell in Nigeria		
Advantages		
Dis-	-	
advantages		
Summary		

11. Nigeria's changing relationships	
Political relationships	-
Trading relationships	-
Internation	onal aid in Nigeria
Term	Definition
International aid	
Emergency aid	
Develop- mental aid	
	Aid in Nigeria
What?	
Nets for life	
Problems with aid	

10. Nigeria's changing industrial structure		
Term	Definition	
Industrial		
structure		
Primary sector Secondary sector		
Tertiary		
How does man development?	nufacturing stimulate economic	

12. Impacts of economic development	
Impact on the environment	
Impact on quality of life	

13. Unilever in Nigeria		
Advantages:	Disadvantages:	

13. Shell in Nigeria		
Advantages:	Disadvantages:	



#### Year 10 History : Medicine in Medieval England c1250-1500



#### What we are learning this term:

- 1.1 Ideas about the cause of disease and illness
   1.2 Approaches to treatment and prevention
   1.3 Dealing with the Black Death 1348-49

D.	Dealing with the Black Death
What is the Black Death?	Bubonic plague – outbreak in 1348-9 – 1/3 <sup>rd</sup> to 1 / 2 of the population died in England. Caused by bacteria Yersinia pestis that was thought to have originated in China and came to Britain on fleas, on rats on ships.
Causes	Miasma – bad air from the filthy conditions making you ill. Astrology – there was a weird alinement of Jupiter, mars and Saturn the previous year which was blamed for the plague Punishment from God- = People thought that society had become wicked so God had sent the plague to punish them.
Treatments	Confesses sins and pray, bleeding and purging (but seemed to make worse), sweet herbs or fire to clean air.
Prevention	Pray and fast, leave the area, carry sweet herbs, quarantine (new people stay away for 40 days), clean streets (or don't, maybe bad smell will drive out miasma)

A.	Can you define these key words?	
Miasma	Bad air that was believed to be filled with harmful fumes.	
Quarantine	Separating the sick from the healthy to stop the spread of a disease.	
Humours	The humours were four fluids that were thought to spread throughout the body and influence its health.	
Purging	To get rid of anything unwanted.	
Phlebotomey	The drawing of blood by opening a vein.	
Leprosy	a painful skin disease	
Prevention	To stop something from happening	
Treatment	giving medicine or using other means to help a person get better when sick or hurt	
Apothecary	A person who mixes herbal remedies and treated patients as an alternative to a doctor as they were cheaper.	
Barber surgeon	barbers and surgeons who also performed minor operations such as removal of warts .	

C. Key People			
Hippocrates	Galen	Physicians, apothecaries and surgeons	Hospitals
'Father of Medicine' – 4 humours, clinical observation (watch and record details, use this to help with future cases), importance of exercise, Hippocratic Oath for doctors (to preserve life)	Built on Hippocrates' ideas – theory of opposites (if cold, give something hot), also dissected animals to find out about anatomy (structure of body). Proved brain, not the heart, controls the body	Physicians – diagnosed + recommended treatment, trained at university for around 7 years. Did not get to see dissections so new little about body. Learned everything from Galen's books. Only for super rich  Apothecaries – mixed herbal remedies (joined a guild, worked for master to train).  Surgeons – least qualified, also cut hair. Learned on job and only performed minor, on-invasive surgeries  Monks and nuns – worked in hospitals mostly prayed for patients and gave comfort. Not allowed to cut or bleed patients so could not do surgery  Housewives and mothers – treated most people. Mixed herbal remedies and treated minor wounds	Ran by monks and nuns Offered patients shelter, beds, food and very limited treatment. Treatments mostly religious based – praying Patients would offer share beds which led to allot of diseases spreading around the hospitals

Causes	Prevention	<u>Treatments</u>
Religious – Punishment from God God has sent an illness as punishment for sins. Especially true at times of panic such as the Black Death.	Religious - Church – Lead a life free of sin.  Regular prayers and confessions.  Offering tithes to the church to make sure sins were forgiven quickly.	Religious – Healing prayers and incantations Paying for a special mass to be said Fasting Pilgrimages
Rational - Miasma — You had breathed in bad air. This was thought to come from swamps or rubbish. During this period there was allot of animal much in towns and often open sewers in the streets meaning the whole place stank. In these filthy places disease was more common seemingly proving this theory	Rational and religious - Regimen Sanitatis - A set of instructions provided by physicians to maintain good health.  Bathing was also used to prevent miasma.	Supernatural - Astrology – Treatments varied according the the horoscope of the patient. The alignment of the planets was checked at every stage of the treatment prescribed eg herb gathering.
Rational - The Theory of the Four Humors – The 4 liquids in your body (blood, yellow bile, black bile, phlegm) were seen to be out of balance making you ill. Recovery came from getting them back in to balance through the theory of opposites Created in ancient Greece by Hippocrates.	Rational - Diet – Eating to much was strongly discouraged. What and when you ate were considered to be important in preventing a humoural imbalance.	Rational - Humoral Treatments – Blood letting – Bad humours could be removed from the body by removing some of the blood.  Purging – Purging the digestive system to remove any leftover food. Eg using a laxative.
Supernatural - Astrology – Impact of the stars and planets on health. Physicians would use star charts to examine a patient and work out what was wrong with them.	Rational - Purifying the air — This was achieved by spreading sweet herbs.	Rational - Herbal remedies — Using herbal infusions to drink, sniff or bathe in.



#### Year 10 History: Medicine in Medieval England c1250-1500



I bleas about the cause of disease and illness 2 Approaches to reatment and prevention C. Dealing with the Black Death  That is the lack Death  What were the causes of disease in Medieval England?  Causes  What were the causes of disease in Medieval England?  Causes  Prevention  Treat  Total Sama  Lack Death Physicians, apothecaries and surgeons  What were the causes of disease in Medieval England?  Causes  Prevention  Treat  Treat  Total Sama  Lack Death Physicians, apothecaries and surgeons  Approaches the start of th
1. Ideas about the cause of disease and liness 2. Approaches to treatment and prevention 2. Obeling with the Black Death 4.00    C.   Dealing with the Black Death   Death 1944-69   Death 1944-69
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A. Can you define these key words?  Aliasma Quarantine
Can you define these key words?
liasma uarantine
liasma uarantine
Aliasma
Quarantine
Quarantine
Humours
Humours
Truinous
Durging
Purging
Phlebotmey
Leprosy Lepros
Prevention
Treatment
Apothecary
Barber surgeon



# Year 10 Spanish Knowledge Organiser Term 1



# Mis Pasatiempos

This is all of the vocabulary that you will learn / come across in Term 1. Use this knowledge organiser to revise / go over vocabulary. These words have been added in by the exam board (Edexcel) so the more you learn, the better your grade!

Spare copies of this kept in class. Just ask your teacher if you need one.

# Techniques for learning vocab:

- Look / cover / write / check ask your teacher for a sheet and to show you how.
- Mind maps
- Post it notes / flash cards
- Record yourself saying them
- Get a family member to quiz you they say the English, you say the Spanish
- Write the word in a sentence put it into context



· deportivo (adj)

· atletismo (m)

· baloncesto (m)

· competición (f)

· discapacidad (f) • equipo (m)

• gimansio (m)

· fútbol (m)

• juego (m)

· lucha (f)

natación (f)

· pasión (f)

· piscina (f)

playa (f)

· tenis (m)

hacer

ganar

• gran

• guay

a pesar de

· vóleibol (m)

· emocionate

· silla de ruedas (f)

jugador (m), jugadora (f)

ciclismo (m)

# Year 10 Spanish Knowledge Organiser Term 1



andar *	to walk
• casi *	almost
• comprar	to buy
• ver	to see, watch
• tocar	to touch; play (instrument)
• pintar	to paint
• montar	to ride
• leer	to read
• jugar (a)	to play
• hablar	to speak
• escuchar	to listen
• escribir	to write
<ul> <li>descansar</li> </ul>	to rest
• correr	to run
• cocinar	to cook
bicicleta (f)	bicycle
· cine (m)	cinema
• fin de semana (m)	weekend
· instrumento (m)	instrument
• pasatiempo (m)	leisure activity, hobby
• película (f)	film
· ropa ( f)	clothes
• a menudo	often
• a veces	sometimes
generalmente	generally
mientras que	whilst
• siempre	always

sports

athletics

basketball

competition, contest

disability, disabled

cycling

team

gym

football

game

player

fight

swimming

passion

beach

tennis

to do

cool

volleyball

to win, to earn

exciting, moving

despite, in spite of

big, great (m, f) (pre-noun)

wheelchair

swimming pool

crear*	to create
• gritar*	to shout
• saltar*	to jump
• abrir	to open
• bajar	to download
• bailar	to dance
· caer(se)	to fall
· caminar	to walk
• cantar	to sing
• entrar	to enter, go in
• enviar	to send
· mirar	to look, watch
• oir	to hear
• segu	to follow
• ver	to see. watch
• hay	there is /are
se puede(n) ver	one can see
· chico/a (m/f)	boy / girl
• jóven	young person
en primer plano	in the foreground
· al fondo	in the background
a la derecha	on the right
a la izquierda	on the left

• a la izquierda	on the left
• (no) ni (ni)*	nor, neither, or (after a negative verb)
• (no) tampoco*	neither, nor, either
• casi*	almost, nearly
• andar *	to walk
• tener, tener que	to have, to have to
• tener ganas de	to look forward to, to be keen
• salir	to leave, to go out, to depart
• querer	to want, love
• poder	to be able to, can
• actividad (f)	activity
• aficionado (m), -a (f)	fan
• Entrada (f)	entry ticket, entry
• equipo (m)	team, equipment
• plan (m)	plan
• revista (f)	magazine
<ul> <li>aburrido</li> </ul>	bored, boring
• cansado	tired, tiring
<ul> <li>desafortunadamente</li> </ul>	unfortunately
• nunca, (no) nunca	never
• ninguno	no, not any (m)
• ya no	no longer, no more
• nada, (no) nada	nothing, anything (after negative verb)

coger	to take, catch	,
ir de compras	to go shopping	• empez
me/te/le gustaría	I, you, she, he would like	• ir (FT);
quedar; quedarse	to meet up; to stay	• tardar
querer	to want, love	alegría
tener; tener que	to have; to have to	• contra
venir	to come	• decepo
lunes (m)	monday	• Ileno*
martes (m)	tuesday	• despué
miércoles (m)	wednesday	• primer
jueves (m)	thursday	alegría
viernes (m)	friday	• final (n
sábado (m)	saturday	• comen
domingo (m)	sunday	• Ilegar
centro commercial (m)	shopping centre	• fui
hora (f)	hour	• fuiste
claro		• fue
	of course	• fuimos
vale	ok, ok?	<ul> <li>fuisteis</li> </ul>
¿cómo?	how?	<ul> <li>fueron</li> </ul>
¿cuándo?	when?	<ul> <li>molest</li> </ul>
¿dónde?	where?	<ul> <li>pensar</li> </ul>
¿quién (es)?	Who (is)?	• primer
¿qué?	what?	• terrible
y / menos cuarto	quarter past / to	<ul> <li>aburrid</li> </ul>
y media	half past	• entono
en punto	o'clock	• luego
		• ayer

• en punto	O CIOCK
auriculares (m pl) *	headphones, earbuds
• búsqueda (f) *	search
• colgar *	to post (online), hang up
conectarse ( <u>a</u> internet)*	to connect (online)
• grabar*	to record, film
• molestar*	to annoy
aplicación (f)	application, app
• cámara (f)	camera
• internet(m)	internet
• mensaje (m)	message
• móvil (m)	mobile
odenador (portátil) (m)	(laptop) computer
• página (f)	page
• publicación (f)	post, publication
• red (f)	network, net
• reloj (m)	watch
• tableta (f)	tablet
• tecnología (f)	technology
• vídeo (m)	video
• web (f)	internet, web
• apagar	to turn off, shut down
• bajar	to download, to get off
• cargar	to charge
• subir	to upload, to turn up, to get on (transport)

• empezar *	to begin, start
• ir (FT); irse (de)*	to go (FT); to leave*
• tardar *	to delay, to take long
alegría(f)*	joy, happiness
contrario*	contrary, opposite
<ul> <li>decepcionante*</li> </ul>	disappointing
• Ileno*	full, filled
<ul> <li>después, después de *</li> </ul>	afterwards; after (+-ing)
• primero*	firstly
alegría (f)	start, beginning
• final (m)	end, ending, final
• comenzar	to start, begin
• llegar	to arrive
• fui	I went; was
fuiste	you (sing) went; were
• fue	she, he, it went; were
• fuimos	we went; were
fuisteis	you (pl) went; were
• fueron	they went; were
• molestar	to annoy
• pensar	to think
• primero	first
• terrible	terrible
aburrido	boring
• entonces	then, so
• luego	later
• ayer	yesterday

		<ul> <li>además *</li> </ul>
escenario (m) *	stage	• beneficio (m) *
estrella (f) *	star	comportamiento (m) *
orquesta(f) *	orchestra, dance band	• debate (m) *
• sonido (m) *	sound	• acabar; acabar de (+ inf.) *
artista (m f)	artist	
• baile (m)	dance	aprovechar *
• banda (f)	band	• atraer *
canción (f)	song	atreverse *
cantante (m f)	singer	comunicar, comunicarse *
concierto (m)	concert	• criticar
• espectáculo (m)	show (e.g. theatre)	
• evento (m)	event	• empezar *
• grupo (m)	group, band	• sufrir *
• instrumento (m)	instrument	• tratar(se); tartar de + inf. *
• letra (f)	letter, lyrics	• blog (m)
• música (f)	music	comentario (m)
• pop (m), música pop (f)	pop music	• cuenta (f)
• radio (f)	radio	• identidad (f)
• ritmo (m)	rhythm	• respeto (m)
• rock (m)	rock music	• seguridad (f)
• actuar	to act, perform	• ayudar
• disfrutar	to enjoy	
divertise	to enjoy oneself	• dejar; dejar de + inf.
• alto	tall, high, loud	• proteger
<ul> <li>internacional</li> </ul>	international	• sin embargo

• cadena (f)*	chain, channel
comedia (f)*	comedy
drama (m)*	drama
• temporada (f)*	season (tv, series, food)
• cobrar*	to charge (money)
· parar(se); parar (+inf)*	to stop
• canal (m)	channel, canal
<ul> <li>ciencia ficción (f)</li> </ul>	science fiction
• cine (m)	cinema
• dibujo (m)	drawing
· miedo (m)	fear
• moda (f); de moda	fashion; fashionable
• noticias (f pl)	news
policía (mf)	police, police officer
• película (f)	film
• programa (m)	show (tv radio), programme (plan)
• público (m)	public, audience
• realidad (f)	reality
• serie (f)	series
• tele (vision) (f)	tv
• terror (m)	terror, horror
• entrada (f)	entrance, admission ticket
• cómodo	comfortable
• musical	musical
• pagar	to pay
sentar(se)	to sit down

· lo bueno/ malo \*

· lo mejor / peor \*

	to pay	ŀ	pasear
	to sit down	ŀ	practica
_	the good / bad thing		110, 11014
	the best / worst thing		• premio (
			• apoyar
	also, besides, as well		• consegu
	benefit, profit		• crecer *
	behaviour		• mantene
	debate		• nacer *
	to finish; have just + pp		• seguir; s
	to take advantage of, to make the most of		participl
			• conocid
	to attract		• el major
	to dare		mejores
	to communicate		• optimist
	to criticise		• aficiona
	to begin, start		• comunio
	to suffer, be in pain		• joven (n
	to treat, be about		• modelo
	blog		• mundo
	comment		• voz (f)
	bill, account		Resultat
	identity	ĺ	el cual, la cuales
	respect		el que, la
	security, safety		• conocer
	to help		• ganar
	to leave, allow; to stop +		• participa
	verb (-ing)		• recibir
	to protect		• reconoc
	however		• traer

colección (f) *	collection
oler *	to usually do
conómico *	cheap
unque *	Although
ado (que) *	Given (that)
) mí *	(to) me (emphasis)
) ti *	(to) you (emphasis)
ompra(s) (f)	shopping, purchase
nero (m)	money
patillas de deporte (fpl)	trainers
orender	to learn   learning
aminar	to walk   walking
omprar	to buy   buying
eer	to think, believe
ar	to give   giving
encantar	to love   loving
gustar	to like, be pleasing to
odiar	to hate   hating
pasear	to go for a walk, ride
practicar	to practise

prize, reward
to support
to acquire, obtain, get
to grow up
to maintain, keep, stay
to be born
to follow, continue, to still be +ing
known, well-known
the best (m, f, mpl, fpl)
optimistic
fan
community
young person
role model
world
voice
Result, outcome
that, which, who
that, which, who
to know, meet
to win, earn
to participate
to receive, welcome

to recognise, admit

to bring



# Year 10 Spanish Knowledge Organiser Term 1



IIIULA:	<u> </u>		age organiser	101111 1	
I		• coger	,		
• andar * • casi *	• crear*	• ir de compras	• empezar *	• cadena (f)*	colección (f) *
• casi •	• gritar*	• me/te/le gustaría	• ir (FT); irse (de)*	• comedia (f)*	
• ver	• saltar*	quedar; quedarse	• tardar *	drama (m)*     temporada (f)*	- Soler *
• tocar	• abrir	• querer	alegría(f)*	• cobrar*	• Económico *
• pintar	• bajar	• tener; tener que	• contrario*	• parar(se); parar (+inf)*	- Aunque *
• montar	• bailar	• venir	decepcionante*	- canal (m)	dado (que) *
• leer	• caer(se)	• lunes (m)	• lleno*	ciencia ficción (f)	• (a) mí *
• jugar (a)	• caminar	• martes (m)	• después de *	• cine (m)	
• hablar	• cantar	miércoles (m)	• primero*	• dibujo (m) • miedo (m)	• (a) ti *
escuchar     escribir	• entrar	• jueves (m)	• alegría (f)	• moda (f); de moda	compra(s) (f)
descansar	• enviar	• viernes (m)	• final (m)	noticias (f pl)	dinero (m)
• correr	• mirar	• sábado (m)	• comenzar	policía (mf)	zapatillas de deporte (fpl)
• cocinar	• oir	• domingo (m)	• Ilegar • fui	• película (f)	aprender
bicicleta (f)	• segu	centro commercial (m)	• fuiste	• programa (m)	- caminar
• cine (m)	• ver	• hora (f)	• fue	• público (m)	
• fin de semana (m)	• hay	• claro	• fuimos	• realidad (f)	comprar
instrumento (m)	• se puede(n) ver	• vale	• fuisteis	• serie (f)	- creer
pasatiempo (m)	chico/a (m/f)	•¿cómo?	• fueron	• tele (vision) (f)	- dar
• película (f)	• jóven	•¿cuándo?	• molestar	• terror (m)	• encantar
• ropa (f)	• en primer plano	•¿dónde?	• pensar	• entrada (f)	gustar
• a menudo • a veces	• al fondo	• ¿quién (es)?	• primero	• cómodo	• odiar
• generalmente	• a la derecha	∙¿qué?	• terrible	musical	
mientras que	• a la izquierda	• y / menos cuarto	aburrido	• pagar	• pasear
• siempre		• y media	• entonces	• sentar(se)	• practicar
		• en punto	• luego	• lo bueno/ malo *	nej norao to se taugitt.
deportivo (adj)	( ) ) ( ) )		• ayer	• lo mejor / peor *	• premio (m) *
• atletismo (m)	• (no) ni (ni)*	• auriculares (m pl) *		• además *	• apoyar *
• baloncesto (m)		• búsqueda (f) *	• escenario (m) *	beneficio (m) *	• conseguir *
. ,	• (no) tampoco*		• estrella (f) *		• crecer *
• ciclismo (m)	• casi*	• colgar *	orquesta(f) *	comportamiento (m) *  debete (m) *	mantener, mantenerse *
competición (f)	• andar *	conectarse ( <u>a</u> internet)*	• sonido (m) *	• debate (m) *	• nacer *
discapacidad (f)	• tener, tener que	• grabar*	• artista (m f)	acabar; acabar de (+ inf.) *	seguir; seguir * present
• equipo (m)	• tener ganas de	• molestar*	• baile (m)	aprovechar *	participle *
• gimansio (m)	• salir	aplicación (f)	• banda (f)	• atraer *	• conocido *
fútbol (m)		• cámara (f)	• canción (f)		• el major, la mejor, los
• juego (m)	• querer	• internet(m)	cantante (m f)	• atreverse *	mejores, las mejores *
• jugador (m), jugadora (f)	• poder	• mensaje (m)	• concierto (m)	comunicar, comunicarse      continuor	• optimista *
• lucha (f)	actividad (f)	• móvil (m)	• espectáculo (m)	• criticar	aficionado, -a (m, f)     comunidad (f)
	aficionado (m), -a (f)	odenador (portátil) (m)	• evento (m)	• empezar *	• joven (n)
• natación (f)	• Entrada (f)	• página (f)	• grupo (m)	• sufrir *	modelo de conducta (m, f)
• pasión (f)	• equipo (m)	• publicación (f)	• instrumento (m)	tratar(se); tartar de + inf. *	
• piscina (f)		• red (f)	• letra (f)	• blog (m)	• mundo (m) • voz (f)
• playa (f)	• plan (m)	• reloj (m)	• música (f)	comentario (m)	• Resultado (m)
• silla de ruedas (f)	• revista (f)	• tableta (f)	• pop (m), música pop (f)	• cuenta (f)	el cual, la cual, los cuales, las
• tenis (m)	• aburrido	• tecnología (f)	• radio (f)	• identidad (f)	cuales
• vóleibol (m)	• cansado	• vídeo (m)	• ritmo (m)	• respeto (m)	el que, la que, los que, las que
• hacer	desafortunadamente	• web (f)	• rock (m)	seguridad (f)	conocer, conocerse
	• nunca, (no) nunca	• apagar	• actuar	• ayudar	• ganar
• ganar		• bajar	disfrutar	• dejar dejar de ∔ inf	• participar
• emocionate	• ninguno		divertise	• dejar, dejar de + inf.	• recibir
• gran	• ya no	• cargar	• alto	• proteger	• reconocer
• guay	• nada, (no) nada	• subir	internacional	• sin embargo	• traer
• a pesar de	, (,	- 3011			

# Year 10 Computer Science – Term 1

A.	Terms	What we	What we are learning this term:			C. Flowchart Symbol		
Abstra		A. Terms B. Common Algorithms C. Flowcharts D. Data Types		sy	Symbol Usage		Symbol Name	
Annim		В.	Common Algorithms	Worked Example				
Assig	nment	Binary Search		2,5,6 searching for 6				
Data								
Decon	nposition							
Flowc	hart	Bubble Sort		5,1,3				
Input								
Outpu	t	Linear Search		2,6,5 searching for 6				
Proce	ss				D.	Data Type	es	Example
Pseud	locode	Merge Sort		5,1,3		Boolean		
						Integer		
Variab	DIE TOTAL					String		
					R	teal/Float		

# **Year 10 Computer Science – Term 1 Answers**

A.	Terms		What we	are learning this term:	C. Flowch	art Symbol		
Abstraction		The process of removing all unnecessary details from a problem.	A. Terms B. Common C. Flowch D. Data T		Symbol	Usage	Symbol Name	
Algorithm  Assignment  Data  Decomposition  Flowchart		The sequence of steps required to carry out a specific task.	В.	Common Algorithms	Worked Example		The start or end of the	Terminator
		Setting the value of a variable in a computer program.	Binary Search	Compares the search object to the middle point of a sorted list. If they are not equal, the half in which the target cannot lie is eliminated and the search	2,5,6 searching for 6 Midpoint 5 5 < 6, remove left side of list 2,5,6		An action	
		Units of information which are acted upon by instructions.		continues on the remaining half, again taking the middle point to compare to the search object, and repeating this until the target value is found or the end is	Midpoint 6 6 == 6 Item found		which occurs during the algorithm.	
		Breaking down a problem into smaller steps that are easier to work with and solve.	Bubble Sort	reached.  Sorts a list by continuously stepping through a list, swapping items until they appear in the correct order.	5,1,3 1,5,3 1,3,5 1st pass complete		Data is either inputted to or outputted from the algorithm.	Input/ Output
		A diagram which shows the step-by-step flow of an algorithm.			1,3.5 1,3.5 2 <sup>nd</sup> pass complete - sorted		A Yes/No,	Decision
Input		Data which is inserted into a system to be processed or stored.	Linear Search	Compares the search object with each item in the list in order from the	2,6,5 searching for 6 2 != 6		True/False decision.	
Output	t	Data which is sent out of a system.		beginning until it is found or the end is reached.	2,6,5 6==6 Item found			
Process		An action taken by the				D. Data Ty	pes	Example
		program without input from the user.				Boolean	TRUE/FALSE or 1/0	TRUE or 1
Pseudocode		A method of writing an algorithm using plain English.	Merge Sort	Sorts a list by repeatedly dividing a list into two until all the elements are separated individually. Pairs of elements are then compared, placed into order	5,1,3 5,1 3 Break list into sublists 5 1 3 Until sublists contain 1 # 1,5 3 Merge pairs	Character	A single, alphanumeric character.	1 or A or !
Variab	le	A memory location		and combined. The process is then	1,3,5 Until all sublists merged	Integer	Whole numbers	15
variable		within a computer where values are stored.		repeated until the list is recompiled in the correct order as a whole.		String	One or more alphanumeric characters.	1A!

Real/Float

15.5

Decimal numbers



# GCSE Business. Paper 1 1. Enterprise and Entrepreneurship

Changes in what consumers want



1. The Dynamic Nature of Business						
Term	Definition					
Dynamic	The idea that Business is ever-changing because external factors such as technology					
Nature of	and legislation are always changing.					
Business						
Venture	Capital provided by an investor willing to take a risk in return for profit in the future					
Capital						

2. WI	ny start a Business?
Starting a Business	Explanation
Why?	<ul> <li>A desire to succeed</li> <li>Financial Reward</li> <li>Independence and a desire to be your own boss</li> </ul>
Who?	A successful start-up requires a huge list of qualities and skills, especially if starting up on your own.  Among these are:  Personal Qualities: Determination, resilience, enthusiasm, hard-working, decisive and willing to take risks  Skills: Can listen as well as speak, can plan and organise, can influence and manage others.  Resources: Can find help when needed, may have unique skills.
How?	When people need to raise capital to help them start a business, they write a business plan. This sets out the aims, objectives, the strategies to be used, the financial forecasts and requirements.

nology can lead to improvements in existing products, the ones and help in making business more efficient.  units that customers want and can afford to buy who see opportunities and are willing to take risks in making service with sales that have declined or come to an end as				
who see opportunities and are willing to take risks in making				
who see opportunities and are willing to take risks in making				
ervice with sales that have declined or come to an end as				
or a service with sales that have declined or come to an end as find something new.				
efinition				
eveloping new products based on existing products.				
feature of business that helps it to succeed against rivals.				
eas that have not been done before.				

3. Why new business ideas come about:

markets for entrepreneurs to invest in.

Consumers desires and tastes change all the time. These changes create

Explanation

4. Risks and Rewards of starting a new Busine	SS
Risks	Rewards
50% of new Businesses fail within the first five years. One of the biggest risks of starting a new business is	Success Success and a sense of achievement are an integral part of business. When a business is successful this comes with a huge sense of pride and satisfaction for the entrepreneur
If a business gets into financial trouble this can lead	Profit and Wealth If the business is successful it can generate huge returns. Income and wealth are a huge motivator for a potential entrepreneur.
Lack of Security When starting a new business there are many uncertainties. Will the Business be successful? Will the Business provide a income? The lack of certainty and financial security is a major risk when starting a business.	Independence By becoming independent, entrepreneurs make their own decisions and if necessary, their own compromises. Being your own boss and making decisions without external influence can be a powerful motivator when starting your own business.

5. Risk and Rewards of Business						
Term	Definition					
Business Failure	The collapse of a business, probably leading to its					
	closure.					
Independence	The need by many business owners to make their					
	own decisions and be their own boss.					
Lack of Financial Security	Uncertainty for the business owner about day to day					
	family income and assets					
Risk and Reward	The balance between the worst that can happen and					
	the best that can happen					

. The Role of Business Enterprise - Definitions						
Definition Definition						
The products or services people need in order to live.						
The products or services people need in order to make life more comfortable.						
Products that may be fresh, such as apples, or manufactured, such as Heinz baked beans. Items you can actually touch.						
Providing useful ways to help people with their lives, for examples mechanics, hairdressers and hospitals. Intangible products.						

7. Adding Value					
Term	Definition				
Branding	Giving a product or service 'personality' with a name and logo that makes it stand out.				
Unique Selling Point	An original feature of a product that rivals aren't offering.				
	The difference between the selling price and the cost of bought in goods and services (the difference that creates the possibility of profit).				

Explanation
Entrepreneurs are willing to take risks and seize new opportunities
Making the right decisions given the information is available is crucial to the success of any
entrepreneur
Leadership is crucial displaying qualities such as decisiveness, initiative and the ability to think
ahead
Being able to organise resources such as human, physical or daily resources are crucial to the
smooth running of any start-up



# GCSE Business. Paper 1 1. Enterprise and Entrepreneurship

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100%	_<00
100/	<b>-/</b> 00
l m ı'	'I m

1. The Dynamic Nature of Business			3. Why new business ideas come about:					
Term		Definition		Why?		Explanation		
Dynamic Nature of				Changes in what consumers wa	nnt			
Business Venture				Products and services becoming	g obsolete			
Capital				Changes in Technology				
	start a Bu			Key Terms and Definitions				
	Explanati	ion		Demand				
Business				Entrepreneurs				
Why?								
				Obsolete				
Who?				4. How new business ideas com	ne about:			
				Term			Definition	
				Adapting existing products				
				Competitive Advantage				
How?				Original Ideas				
							•	
4. Risks and Re	ewards o	of starting a new Business		6. The Role of Bus		erprise	- Definitions	
Risks		of starting a new Business R	ewards	Term	Definition			
				Customer Needs				
Business Failure		<b> </b>	uccess	Customer Wants				
				Goods				
				Services				
Financial Loss		P	rofit and Wealth					
				7. Adding Value				
Lack of Security		<u> </u>	ndependence	Term	Definition	1		
Eack Of Security		Ţ"	inependence	Branding				
				Unique Selling Point				
5. Ris	k and I	Rewards of Business		Value Added				
Term			Definition					
Business Fa	ilure			8. Role of Entrepreneurship				
lus al aus				Qualities needed	Explanation	on		
Independer	nce			Ability to take risks  Making decisions				
look of Circ -	n ci - l C	o o u ritu						
Lack of Fina	ıncıaı S	ecurity		Showing Leadership Organising				
Risk and Re	Risk and Reward			Resources				
1								

#### Year 10 Cambridge National- Media and Sport- Term 1



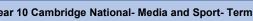
A.















Newspaper





**Key information** 

The daily Mail

The Guardian

The Daily express

Autobiographies

Red issue- Man Utd

Tactics/Plays

Sport history

The Gooner-Arsenal

F1 Fanatic

Caughtoffside

The5krunner

Dailymotion

Vimeo

Twitch

Youtube

Facebook

Instagram

Total carp

BBC

ITV

Runners world

Cycling Plus

Channel 4

Talk sport

Radio 5 live

Over the bar

ITV Box Office

Sky Box Office

The Sun

вт

Skv Virgin





#### What we are learning this term:

- How sport is covered across the media
- Examples of how sport is broadcast across different media platforms

**Key question from Assessment** 



#### Main assessment objectives

Learning outcome: Know how sport is covered across the media

What are the different forms of social media?

Facebook, Twitter, Snapchat and Instagram

What sports are shown on Pay-per-view

channels?

- 1. Boxina
- 2. UFC
- 3. WWE





What satellite channels show sport?

1. Sky

(4)

- 2. BT
- 3. Virain





What is the difference between A. terrestrial, satellite and pay-per-view

Terrestrial- This TV is free to air, and you must only pay your TV licence to watch this

Satellite- This type of TV requires a monthly subscription to watch



is type of TV requires a one tch a live event

A. What is the difference between a tabloid and broadsheet newspapers?

Tabloid- A paper that focus on celebrity gossip and news about famous people

Broadsheet- A paper that focus on more serious news such as politics and finance







National radio

likely to broadcast? 1. Premier league

> 2. FIFA World cup 3. Wimbledon

What sport information are radios

- 4. Cricket World cup

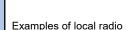


- Radio 1
- 2. Radio 2
- 3. Capital
- XFM





- 1. STFC results
  - 2. Local rugby results 3. Southern League
  - 4 Bristol football results



- 1. BBC Wiltshire 2 BBC Berkshire
- 3. Heart Wiltshire
- 4. STFC Radio



Fan sites

#### objectives? Key word Key definition 1. Terrestrial TV Free to air TV 2. Satellite TV Requires a monthly payment to watch Magazines written and 3. Fanzines published by fans 4. Blog An informal or discussion posted online A digital audio file 5. Podcasts available online for downloading 6. P2P Sharing The distribution and sharing of digital media One off paid for TV 7. Pay-per-view events 8. Fan sites Websites produced by sports fans

What sports are predominantly shown

1 tv

RACING

on TV?

Wimbledon/Olympics/Snooker/Interr

ITV- International football/Darts/Horse

BT- Champions league football/NBA

Sky- Premier league football/Cricket/Golf

BBC-

football

				Year 10 Cambridge National- Media and Sport- Term 1								
What we are learning this term:				Main assessment objectives						ı	Key information	
A. How sport is covered across the media     A. Examples of how sport is broadcast across different media platforms				Learning outcome: Know how sport is covered across the media						Newspapers		
			C. What are the different forms of social media?							Satellite		
A.	A. Key question from Assessment objectives?		What	What sports are shown on Pay-per-view channels? What satell			satellite channels show sport?			Books		
Key word		Key definition										
1. Terresti	ial TV			Α.	What is the difference between terrestrial,	G.	What sport	information are radios likely to	╗	Fanzines		
2. Satellite	2. Satellite TV			-	satellite and pay-per-view TV?		broadcast?			Blogs		
3. Fanzine	3. Fanzines		-			Nalional	l radio (4)			biogs		
4. Blog	4. Blog									Video-sharing sites		
5. Podcasts 6. P2P Sharing									Live streams			
									Magazines			
7. Pay-per-view  8. Fan sites					Local ra	dio <i>(4)</i>		1	Terrestrial			
C. Farisico				What is the difference between a tabloid and								
A.	A. What sports are predominantly shown on TV?				broadsheet newspapers?					Pay-per-view		
									Dedicates sports radio			
										Fan sites		



#### Year 10 Food & Nutrition Term 1



#### What we are learning this term:

Proteins

B. Carbohydrates

C. Fibre & Water

D. Fats

E. Minerals

F. Vitamins

D.

Fats

Needed for energy, vitamins,

insulation (warmth) and protecting your bones &

A.	Protei	Proteins – contain amino acids		
		Used for growth, repair and maintenance of the body.		
Source ?		Seeds, meat, fish, dairy, nuts and beans. <b>Alternative:</b> soya, mycoprotein, TVP & tofu.		
Excess +		Strain on liver and kidneys. These organs process the proteins consumed.		
Deficiency		Slows growth, weak immune system, oedema, kwashiorkor, poor hair /skin / nails.		
High Biological Value Proteins		These contain ALL the essential amino acids. These come from mainly animals sources (as well as soya and quinoa).		
Low Biological Value Proteins		These are missing one or more of the essential amino acids. These come from plant sources.		
	Protein Completion: when you combine LBV proteins to get all the essential amino acids.			

B. Carbo	hydrates – used for energy	
	Sugars – digested quickly & energy released quickly. Monosaccharides or Disaccharides	
Source ?	Fruit or added to food.	
	Starch – digested slowly & slow released of energy. Polysaccharides.	
Source ?	Potatoes, cereals. Have a lot of nutrients & fibre.	
Excess	Gets converted into fat (may lead to obesity), tooth decay, type 2 diabetes.	
Deficiency	Low blood sugar (hunger, dizziness, tiredness), body starts to use up fat & protein (weight & muscle loss).	
Glycaemic Index (GI): show how quickly carbohydrates affect blood sugar levels.		

		•	making cholesterol.		
	Saturated Fats		Unsaturated Fats		
	Usually come animal source		Mostly from vegetable sources.		
	Excess +	higher (	Obesity, Type 2 Diabetes, higher Cholesterol (increased risk Coronary Heart Disease).		
	Deficiency	loss, les	deficiency, weight s insulation / bone & rotection.		
	E. Minera	ıls			
	Calcium	Strong bones & teeth, healthy nerves & muscles, blood clotting			
0	Iron		Forms part of haemoglobin in red blood cells		
	Sodium	conter	ols body's water nt, helps nerves / e function		
	Phosphorus	Health	Healthy bones & teeth		
	Fluoride		s strengthen teeth & ent tooth decay		

lodine

	Micronutrients which help the body to function.			
Fat Solu	ble Vitamins			
ı	Found in fatty food. Stored in fat tissue if not used up.			
A	For good eyesight, healthy immune system / skin			
D	Helps absorb minerals (especially calcium)			
E	For healthy skin, eyes & immune system			
К	Helps heal wounds, keeps immune system / bones healthy			
Water Soluble Vitamins				

F.

**Vitamins** 

Strong bones & teeth, healthy nerves & muscles, blood clotting	Vitamins that dissolve in water & lost through urine – need to take daily! They are also lost when fruit and vegetables are exposed to air.		
Forms part of haemoglobin in red blood cells	В	Keep the nervous system healthy	
Controls body's water content, helps nerves /	B1, B2 & B3	Help with energy release	
muscle function	B9 & B12	Help make red bloody cells.	
Healthy bones & teeth	С	Protects body from	
Helps strengthen teeth &		infection, heals wounds	
prevent tooth decay	Antioxidants		
Helps make some hormones	Vitamins A, C & E are antioxidants which may protect cells from <b>free radicals</b> - chemicals you encounter every day.		

#### C. Fibre & Water Fibre

Helps with digestion

- Prevents constipation
- Found in fruit, pulses, nuts, veg, wholegrain foods
- Water
- Helps get rid of waste & digest food
- Controls body temperature
- 6-8 glasses of water a day
- More during a hot day or exercising



#### Year 10 Food & Nutrition Term 1



What we are learning this term:								
A. Proteins	B. Carbohydrates C. Fibre	& Water D.	Fats E. Minerals F. V	/itamins				
A. Proteins	- contain amino acids	B. Carbohy	drates – used for energy	D. Fats			F. Vitar	mins
		REID	Sugars	AAA				
Source							Fat Soluble	Vitamins
?		Source ?		Saturated Fats	U	nsaturated Fats		
Excess			Starch	Excess			A	
$\oplus$				$\oplus$			D	
Deficiency		Source		Deficiency			Е	
$\Theta$		(?)		$\Theta$			К	
High Biological Value		Excess		E. Minerals	s		Water Solub	ole Vitamins
Proteins		<b>(+)</b>		Calcium				
Low Biological		Deficiency						
Value Proteins		Θ		Iron			В	
Protein Completion	on:	Glycaemic Index	x (GI):	Sodium			B1, B2 & B3	
C. Fil	bre & Water						B9 & B12	
Fibre		Water		Phosphorus			С	
• -		• -		Fluoride			Antioxidants	
• -		• -		lodine			- IIII JAIGUITE	
• -		• -						



#### Year 10 PRODUCT DESIGN Term 1



#### What we are learning this term:

Scales of Production

**Production Methods** 

- C. Impact on Enterprise
- E. Impact on People F. Impact on Design
- G. Ergonomics

D. Anthropometric Data

A.	Sca	Scales of Production		
Туре		How Many?	Examples	
One-off Production		1	Towers /bridges     Bespoke house     Custom made clothes	
Batch Production		10s-1000s	<ul><li>Baked Foods</li><li>Limited Edition</li><li>Socks</li><li>Chairs</li></ul>	
Mass Production		10,000s – 100,000s	<ul><li>Cars</li><li>Bottles</li><li>Microchips</li><li>Plain shirts</li></ul>	
Continuous Production		100,00s+	Energy     Water     Paper     Plastic	
B. Production Methods			\$ <u>\$ 1000</u>	

#### B. **Production Methods**



#### Flexible Manufacturing Systems (FMS)

This is where automated machines are adaptable and can produce different products if needed.



#### Lean Manufacturing

This is where waste and energy is kept to a minimum. This saves money and resources in production, as well as helping minimise the environmental impact of producing products.

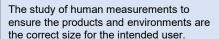


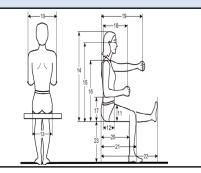
#### Just-in-Time (JIT) Manufacturing

This is where manufacturers only order materials, parts, etc, when needed. This can be used in any scale of production but its particularly useful for one-off production.

C. Impact or	n Enterprise		
Crowdfunding	A way of raising money from large numbers of people to launch a new product through websites.		
Virtual marketing and retail	Promotion of products online and sharing experiences, reviews and recommendations.		
Cooperatives	A business that is owned and managed by it's workers, all working towards a common goal.		
Fair trade	An organisation that helps workers have fair trading and working conditions in developing countries		

#### **Anthropometric Data**





E.	Impact on People	† <del>†</del> †	
Technology Push		When technological discoveries are used to drive the development or creation of a product	
Market Pull		When products are developed or created to meet the needs of society or a gap in the market.	
Universal Design		When designs are focused on serving the broadest range of users possible, rather than trying to address individual accessibility or inclusion objectives.	
Inclusive Design		When the designer focuses on exploring ways of serving a full spectrum of people, regardless of age, gender, and disability.	
User C	Centred Design (USD)	When designers focus on the end-user's wants and needs in each phase of the design process.	

F.	Impact on Design			
Planned obsolescence		Designing products that will have a limited life and that will become obsolete and require to be replaced, such as disposable razors.		
Design for Maintenance		Designing products that are more durable and have spare parts available to mend and maintain them, such as a push bike.		
Design for Disassembly		When a product has reached the end of its life it can be taken apart and parts reused or recycled, such as a school seat.		
Environmental Design		Designing products to be more sustainable and improving the overall environmental impact of a product, such as paper straws.		

#### **Ergonomics**



This is the consideration that leads to a product being designed in a way that makes it easy to use. Such as a person sitting at their computer desk or the type of water bottle they use.



#### Voor 10 DECIGN Torm 1



<b>9</b> X	5			rear it	PRODUCT DESIGN	i eriii i			
What we ar	e learning this	term:				E.	Impact on Peop	ole	<b>†</b> †
	of Production etion Methods	C. Impact on Enterprise D. Anthropometric Data		ct on People ct on Design	G. Ergonomics	Techn	ology Push	<b>於</b>	
A.	Scales of Pro	duction	C.	Impact or	n Enterprise	Market	t Pull		
Туре	How Many	? Examples	Crow	dfunding			<u>/</u> \$	<b>-≯</b> \	
One-off Production				<u>.</u>		Univer	sal Design		
Batch Production			Virtua and re	al marketing etail			ive Design		
Mass Production			Соор	eratives		User C	Centred Design (U	(\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$	
Continuous	s		1			F.	Impact on Desig	gn	
Production			Fair to	rade		Planne	ed escence		
	oduction Metho	<u> </u>	D.	Anthronou	metric Data	Design			
<b>↑</b> Flex	xible Manufact	uring Systems (FMS)	ļ	Antinopol	metric Data	Mainte	enance		
				l <u>←</u> 10	10	Desigr Disass	n for sembly		
	Lean Ma	nufacturing			14	Enviro	nmental Design		
	Just-in-Time (J	IIT) Manufacturing			17 111	G.	Ergonomics		
				13-	122				- ; : :

#### Music terms and signs

#### **Glossary - Eduqas GCSE Music**

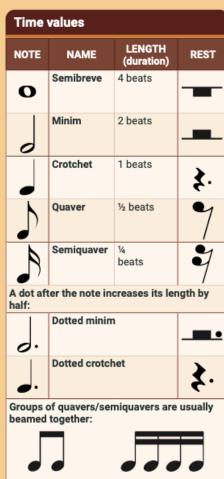


crescendo (cresc.)	diminuendo (dim.)
gradually getting louder	gradually getting quieter

#### Tempo

LARGO	LENTO/ ADAGIO	ANDANTE/ MODERATO	ALLGRETTO	ALLEGRO/ VIVACE	PRESTO
v.slow	slow	walking pace/ moderate	quite fast	quick/lively	very quick

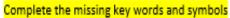
- · Accelerando: gradually getting faster
- Rallentando/ritardando: gradually getting slower
- · A tempo: return to the original speed
- · Ritenuto: in slower time
- · Rubato: rhythms are played in a more free/flexible way ('robbed time').

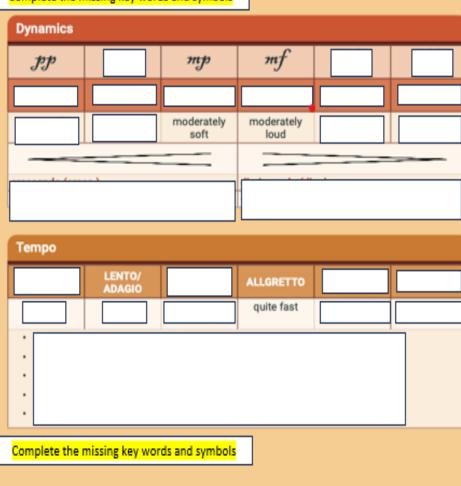




### Music terms and signs

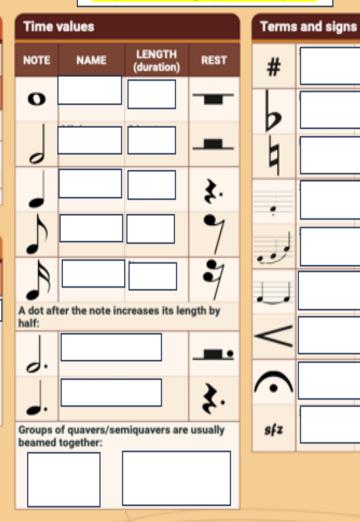
### **Glossary - Eduqas GCSE Music**







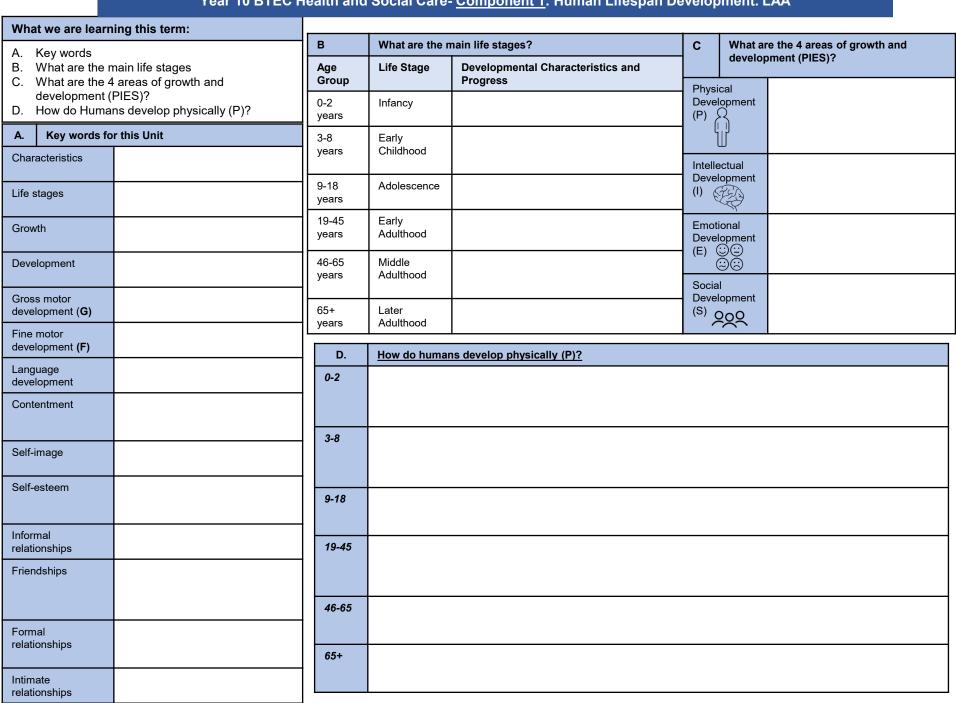
Complete the missing key words and symbols



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

What we are learn	ing this torm:						
What we are learn	ing this term.	В	What are the n	nain life stages?	C What are the 4 areas of growth and		e the 4 areas of growth and
A. Key words     B. What are the main life stages     C. What are the 4 areas of growth and		Age Group	Life Stage	Developmental Characteristics and Progress		development (PIES)?	
development (I D. How do Humai	PIES)? ns develop physically (P)?	0-2 years	Infancy Sill dependent on parents but growing quickly and developing physical skills.  Development in the mobility of the property of the prop			P = growth patterns and changes in the mobility of the large and small muscles in the body that	
A. Key words fo	r this Unit	3-8	Early	Becoming increasingly independent,		Ш	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.		ectual 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.			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	tional 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;	Socia	<u> </u>	C - da-ariba-a bassa a dasaba
Gross motor development ( <b>G</b> )	Refers to the development of large muscles in the body e.g. Legs	65+ Vacro	Later Adulthood	beginning of the aging process.  The aging process continues, which may affect memory and mobility.	Deve	elopment	S = describes how people develop friendships and relationships.
Fine motor development <b>(F)</b>	Refers to the development of small muscles in the body e.g. Fingers	years Adulthood affect memory and mobility.  D. How do humans develop physically (P)?					
Language	Think through and express ideas	0-2	·	r Development (G) = life head, roll over, sit unaid	led wal	k holding o	into something, walk unaided, climb
development  Contentment	An emotional state when people feel happy in their environment, are cared for and well loved		stairs, kick and throw, walk upstairs, jump.  • Fine Motor Development (F) = hold a rattle for short time, reach hold between finger and thumb, scribble, build a tower, use a		each for an item, pass item from one hand to other, a spoon, draw lines and circles, turn page of a book.		
Self-image	How individuals see themselves or how they think others see them	3-8	ride a bike, • F = hold a c	ricycle, catch a ball with two hands, walk backwa catch a ball with one hand, balance along a thin crayon to make circles and lines, thread small bea dels with construction bricks, joined up writing, u	line. ads, cop	oy letters aı	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 wide e deepens, muscles and strength increase, erec	en, mer	struation b	egins, uterus and vagina grow.
Informal relationships	Relationships formed between family members	19-45	Physically n	c and underarm hair, growth spurts.  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 was slow do	life stage people may put on weight, hair turn gro own	ey and	men may lo	ose hair, women's menstrual cycle
-	clubs	<ul> <li>People may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow</li> <li>Women go through the menopause – when menstruation ends and they can no longer become preg</li> </ul>		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 in 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



#### What we are learning this term: F. How do humans develop emotionally (E)?

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

	umans develop intellectually (I)?		Infancy and Early Childhood	Adolescence and adulthood			
G. How do h	umans develop emotionally (E)? umans develop socially (S)? numans develop intellectually (I)?	Bonding and A Bonding and att forms with other and their main c	Self-image and Self-esteem Self-image is heightened during adolescence because of the physical changes we experience. Our self-esteem can change from day to day based on a variety of factors including				
Infancy	At birth brains are already well 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	which makes them feel safe and secure.  Security For infants and young children, security is mainly the feeling of being cared for, being safe and loved – it is closely linked with attachment.		Ecurity     Adolescence may feel insecure because of puberty. Adults may feel insecure about relationships, job security of income. Later in life adults may feel insecure about staying in their own home or going into a care home. Feeling secure helps us cope better with everyday situations.			
	months to 2 years infants understand processes and how things work.  Language begins to develop during this stage.	,	ng children are content if they have had enough lean and dry and all other needs are met.	Contentment When people feel discontented with aspects of their life – for example, relationships or work – their emotions can be negatively affected.			
Early childhood	At 3-4 years of age children become more inquisitive and enjoy exploring objects and materials. They ask lots of questions and enjoy solving simple problems.  At 5-6 years old children's memory is becoming well developed. This helps	decisions. Infant children enter ea	s to care for yourself and make your own ts are completely dependent on their carer. As arly childhood they develop more independence get dressed. However, children still need a lot of arer.	Independence Adolescence are dependent on their parents but are beginning to enjoy more independence and freedom to make their own choices. Adults enjoy living independently and controlling their own lifestyle and environment. Later in adulthood people become more dependent on others again.			
	them to talk about the past and anticipate the future.	G.	How do humans develop socially (S)?				
Adolescence	During this time abstract thought is	Life Stage	Types of relationships and social development				
. 10000001100	developed – thinking logically and solving complex problems are	Infancy	<ul> <li>Solitary Play - From birth to 2 years, infants to carer; they may be aware of other children bu</li> </ul>	end to play alone although they like to be close to their parent or t not play with them.			
The state of the s	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 childhood	game; they are not socialising or playing with  Cooperative or social play – from 3 years upw	joy playing next to other children but are absorbed in their own other children. wards, children start to play with other children; they have developed together; they often make up games together, such as being a			
Early and Middle Adulthood	By these life stages most adults have a good range of general knowledge. They use this knowledge and	Adolescence	<ul> <li>People become more independent and build more informal and formal relationships.</li> <li>Social development closely linked to emotions.</li> <li>Often strongly influenced by peers – 'peer group pressure'.</li> </ul>				
泉	experience to solve problems that they come across in their personal and work lives.	Early adulthood	<ul> <li>Increased independence means greater contr</li> <li>People may be developing emotional and soc</li> <li>Social life often centred on the family but soci</li> </ul>				
Later adulthood	During this life stage people continue to learn and develop intellectually, however, their speed of thinking and	Middle adulthood	Children have often left home, but there are li     Social circles may expand through travel, spe	kely to still be strong family relationships. nding more time on hobbies or joining new groups.			
f	however, their speed of thinking and memory may decline. This may affect their ability to think through problems and make logical decisions.	Later adulthood	Retired by this stage and so may enjoy more social time with family and friends or join new groups.				

friends pass away.

and make logical decisions.

# What we are learning this term: E. How do humans develop intellectually (I)? F. How do humans develop emotionally (E)? Infancy and Early Childhood Adolescence and adulthood

F. How do humans develop emotionally (E)?

G. How do humans develop intellectually (I)?

Infancy

How do humans develop socially (S)?

Types of relationships and social development

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

E. How do humans develop intellectually (I)?

Infancy

G.

Life Stage

Adolescence

Infancy

Early childhood

Early adulthood

Middle

adulthood Later adulthood

Early childhood

Adolescence

Early and Middle Adulthood

Later

adulthood

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

#### 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?

Н	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.		
Cul	ture	ideas, customs, and social behaviour.		
Rol	e 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. Hov	w do physical	factors affect	development?
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	Genetic Disorders	Disease and Illness
Physical Development	A person's physical build can affect physical abilities. Inherited diseases may affect strength and stamina needed to take part in exercise.	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.
Intellectual Development	Some genetically inherited diseases may result in missed schooling, or have a direct impact on learning – conditions such as Edward's syndrome impact learning.	School, college, university, work or training could be missed. Memory and concentration could be affected.
Emotional Development	Physical appearance affects how individuals see themselves (self-image), and how others respond to them impacts on their confidence and wellbeing.	May cause worry and/or stress. Individuals may develop negative self-esteem. Could lead to feelings of isolation.
Social Development	Physical characteristics or disease may affect opportunities or confidence in building friendships and becoming independent.	May cause difficulty in having opportunities to socialize with other and build wider relationships.

How does lifestyle affect development?

Lifestyle choices include; diet, exercise, alcohol, smoking, sexual relationships and illegal drugs, appearance.

#### Positive lifestyle choices lead to:

- · Healthy hair, skin, nails and teeth
- · Positive self-image
- Energy and stamina
- · Good health

J.

Emotional security



#### Negative lifestyle choices lead to:

- · Being overweight or underweight
- Lack of energy
- III health
- Negative self-image
- Sexually transmitted diseases (STDs)
- Unplanned pregnancy



Our appearance includes: body shape, facial features, hair and nails, personal hygiene and our clothing. Our appearance can affect the way we view ourselves- self-image

#### Positive self-image:

- Feel good about yourself.
- · Healthy hair, skin, nails and teeth
- Big social circle.
- High self-esteem.
- High self-confidence.



#### Negative self-image

- Low self-esteem
- Low self-confidence
- Can lead to eating disorders e.g. anorexia
- Can lead to anxiety or depression
- · Can lead to self-harm
- Negative impact on building relationships- social circle decreases.



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

What we are learning this term:	l.	How do	physical factors affect development?			
<ul> <li>H. Key words</li> <li>I. How do physical factors affect de</li> <li>J. How does lifestyle affect develop</li> <li>K. How do social and cultural factor development?</li> <li>L. How do relationships and isolatio development?</li> <li>M. How do economic factors affect of</li> </ul>	oment? rs affect  Develo	pment	Genetic Disorders		Disease and Illness	
H Key words:						
Genetic Inheritance Genetic disorders	Emotio Develo					
Lifestyle Choices	Social Develo	pment				
	J.	How does	s lifestyle affect development?			
Appearance	Lifestyl	e choices i	nclude; diet, exercise, alcohol, smoking, sex	xual relatio	nships and illegal drugs, appearance.	
Factor			رگ			
Gender role			ر_ن		υ	
Culture	Our app	pearance in	cludes: body shape, facial features, hair and naffect the way we view ourselves- self-ima	d nails, per	sonal hygiene and our clothing.	
Role models	Cui app	earance ca	in allect the way we view ourselves- self-line	l l	~	
Social Isolation  Material possessions					Ц	کم
Economic						

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

Not having enough

Not having enough

money can mean that

eat well balanced diet,

and this has a negative

effect on their physical

Living in a poor housing

with cramped and damp

· Have low self-esteem

and self-image

Be more likely to

Be lesson likely to

exercise

stressed.

others.

Anxious and

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

experience ill health

development

conditions:

the family is not about to

and anxiety.

money causes stress

#### 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? religion because it affected their: M. How do economic factors affect development? Values: how they behave Lifestyle choices: diet, appearance How do relationships and isolation affect How do economic factors affect development Negative affects of a persons development? Positive affects of a persons culture/religion: culture/religion: Having enough money A sense of security Feeing discriminated 1 In adolescence, young people often arque and belonging from against by people who do gives individuals and their with parents because they want more families feeling of content sharing the same not share their independence- negative affect on family religion/culture which leads values and beliefs relationships- can lead to isolation from and security with others. to low self-image them. Good self-esteem Feeing excluded and 2 Having enough money In later life, older people might need to through being isolated because their rely on their children for support. This then means that the whole accepted and valued needs like diet, are not family is eating healthy. has a positive affect on their development by others catered for. because all their need are catered for. Community refers to: local area where people live, school, religious group or hobby clubs. They have common values Relationships are important because they 3 provide emotional security, contentment and goals. and positive self- esteem. Belonging to a community: Not belonging to a Elderly people rely on state pension to live which is not enough and have to cut down on travel, shopping, bills, Brings sense of community: The breakdown of personal relationships therefore it speeds their aging process and lead to · Minimal contact with belonging essential for can have a negative effect on persons emotional development. health decline. others-isolation PIES development: Building and maintaining · Anxiety leading to Low self-esteem, loss of confidence, Living in good housing relationships-social depression stress. with open spaces: · Making negative lifestyle development Feeling good about 5 Isolation can happen when individuals do Feeling of security. choices themselves not have the opportunity of regular contact Increases self-image and Feeling less secure Be more likely to stay with others. They have no one to share self-confidence Difficulty in building their feelings, thoughts and worries with healthy, relationships Space to take exercise resulting in feeling insecure and anxious. Slow self-image and Feel safe ad secure self-confidence 6 Isolation can happen because they live Warmth Traditionally, men and women had distinctive responsibilities alone, are unemployed or retired, are and expectations which for their gender called gender discriminated against or have an illness or roles. However, nowadays UK equality legislation stops a disability. Material possession like a people being discriminated against because of their gender. 7 People have role models- infants learn by new phone or coat has a What happens when people face discrimination because of copying others, and adolescence base positive effect on the their identity on their role models. Role persons development gender: They might be excluded from a group models can influence how people see because they might have They may be refused promotion at work themselves compared to others and their more friends as they look They may be expected to carry out a particular role lifestyle chices0 can be positive or nicer, high self-image.

negative.

They may be paid less.

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

K	How do social and cultural factors affect development		at we are learning this term:		
Development can be influenced by the persons culture or religion because it affected their:  Values: how they behave		K. L. M.	How do social and cultural factors affect develoned How do relationships and isolation affect develoned How do economic factors affect development?		
· L	ifestyle choices: diet, appearance	L	How do relationships and isolation affect development?	M	low do economic factors affect development
		1			
					-
		2			
religi	munity refers to: local area where people live, school, ous group or hobby clubs. They have common values goals.	3			
		4			
		1			
		5			
and	itionally, men and women had distinctive responsibilities expectations which for their gender called <b>gender</b> B. However, nowadays UK equality legislation stops	6			
peop	ele being discriminated against because of their gender.	7			

# Year 10 BTEC Health and Social Care- Component 1: Human Lifespan Development. LAB What we are learning this term: O. How do people deal with life events?

Individual

N. What are life events?

O. How do people deal with life events?

P. How is dealing with life events

	P. How is dealing with life events supported?		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 life events?	Adapting	Adapt – to adjust to new conditions or circumstances.			
Life Events	Life events are expected or unexpected events that can	, aspang	Expected on unexpected life events can often force people to make changes to their lives. Individuals must find their own way to adapt to the changes that life throws at them.			
	affect development. Examples include starting nursery, getting married or becoming ill.	Resilience	<ul> <li>Resilience – a person's ability to come to terms with, and adapt to, events that happen in life.</li> <li>Resilience is stronger in people who have a positive outlook on life, accept that change happens, has supportive family and friends and plans for expected life events.</li> </ul>			
Expected Life Events	Expected life events are life events that are likely to happen. Examples include	Time	<ul> <li>Sometimes people need a long time to adapt to unexpected life events.</li> <li>It can take time for people to move on from and accept difficult changes in their life.</li> </ul>			
	starting primary school aged four and secondary school	P.	How is dealing with life events supported?			
Unexpected	aged 11.  Unexpected life events are	Types of Support	How this helps individuals deal with life events			
Life Events	events which are not predictable or likely to happen. Examples could include divorce and bereavement (the	Emotional Support	Emotional support is needed to help individuals deal with all life events – expected and unexpected. Having someone to talk to helps people feel secure and adapt to change. Sometimes individuals can find this support in family and friends or professionals to process difficult life events – such as bereavement.			
Physical Events	death of a loved one).  Physical events are events that make changes to your body, physical health and mobility.	Information and Advice	Life events, particularly unexpected ones, can cause people to feel like they do not know what to do. Information and advice can help people to have a better understanding of their situation, which allows them to deal with it more successfully. Information and advice help them know where to go for help, the choices than are available to them and how to make healthy choices.			
	Examples include illnesses such as diabetes and injuries and accidents such as car accidents.	Practical Help	<ul> <li>Financial help – an individual may need money to help them adapt to a life change i.e. money to pay for a stair lift if their mobility has been effected.</li> <li>Childcare – an individual may need support looking after their children i.e. a lone parent after a divorce that needs to go to work.</li> </ul>			
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.			
	birth of a sibling, a new friendship or romantic relationship. Relationship changes can also be changes	Informal Support	Informal support is the support an individual receives from partners, family and friends. It is usually the first form of support an individual experiences after and expected or unexpected life event. Informal support can provide reassurance, encouragement, advice, a sense of security, someone to talk through options with and practical help.			
	to existing relationships such as divorce.	Professional Support	Formal support may be provided by statutory care services (the state), private care services and charitable organizations.  Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and health specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life changes			
Life Circumstance	Life circumstances are different situations that arise in		and emotions, get advice and information or change their lifestyle.			
S	our life that we must deal with. Examples include redundancy (losing a job), moving house or retirement (finishing work in later adulthood).	Voluntary Support	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.			

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.

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

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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 supported?		Individual Factors	
N. What	t are life events?	Adapting	
Life Events			
		Resilience	
Expected Life Events	9	Time	
		P.	How is dealing with life events supported?
Unexpected		Types of Support	How this helps individuals deal with life events
Life Events		Emotional Support	
Physical		Information and Advice	
Events			
		Practical Help	
Relationship Changes			
·		Informal Support	
		Professional Support	
Life Circumstance	e		
S		Voluntary Support	

## Sentence Stems: Year 10 to Year 13



#### Listen and Mark

Pay close attention to others and point out important moments.

- I notice you used the word / phrase \_\_\_\_\_ , which implies \_\_\_\_\_ .
- When you said \_\_\_\_ , it anchored the idea that \_\_\_\_ .
- Did anyone notice what \_\_\_\_\_ said about \_\_\_\_ ? This seems important because \_\_\_\_ .

## Defend and Unpack

Defend your perspective and explain your thought process.

- I understand your perspective on \_\_\_\_\_, but have you thought about \_\_\_\_?
- I actually think this because
   \_\_\_\_. (Furthermore, finally).
- Actually, [evidence] suggests that \_\_\_\_\_.

#### Introduce and Invite

Begin your contribution and encourage others to participate.

- I suggest that \_\_\_\_ because \_\_\_\_.
- \_\_\_\_, what is your perspective on \_\_\_\_, and why?
- We should discuss \_\_\_\_ because \_\_\_\_ .

## Build and Support

Add to others' ideas and bolster points by giving evidence.

- Your point about \_\_\_\_ implies \_\_\_\_ , and I would like to further this by saying \_\_\_\_ .
- \_\_\_ supports the idea that \_\_\_ .
- Drawing upon points made by
   \_\_\_ and \_\_\_ , we can conclude
   that \_\_\_ because \_\_\_ .

## Challenge and Verify

Disagree and ask others to prove or clarify information.

- You said \_\_\_\_ . How do you know?
- I think you said \_\_\_\_, which implies that you believe \_\_\_\_. Is that right?
- I disagree with what you said about \_\_\_\_ because \_\_\_\_.

## Summarise and Map

Draw together big themes and track the discussion.

- Our main findings were \_\_\_\_.
- On the whole, we believe that
- Initially, we thought \_\_\_\_, but we eventually decided \_\_\_\_.



## SWINDON ACADEMY READING CANON

