### 100% book - Year 10 Mainstream

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



### Term 1

Swindon	<b>Academy 2025-26</b>
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."





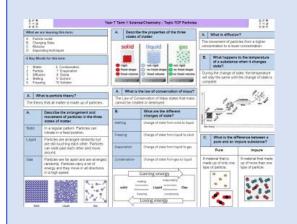






### How to use your 100% book of Knowledge Organisers and Quizzable Organisers

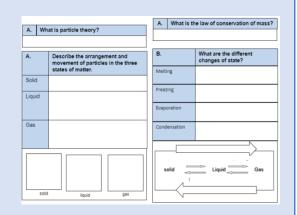
### **Knowledge Organisers**



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**

- 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.
- 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.

### How do I complete Knowledge Organiser Prep?

Step 1	Step 2	Step 3
Check Epraise and identify what words /definitions/facts you have been asked to learn.  Find the Knowledge Organiser you need to use.  Planer	Write today's date and the title from your Knowledge Organiser in your Prep Book.  A What is particle theory? The terry that if matter is made up of paticles.  A What is particle theory? The terry that if matter is made up of paticles.  A What is particle theory? The terry that if matter is made up of paticles.  A What is particle theory? The terry that is matter in made up of paticles.  A What is the tax of conservation of Mass? The Law of Conservation of Mass and The mass cannot be created or delayed.  A What is particle theory? The terry that is made up of paticles.  A What is particle theory? The terry that is made up of paticles.  A What is particle theory? The terry that is made up of content to the terry that is made up of content to the delayer of content to the different content to the content to	Write out the keywords/definitions/facts from your Knowledge Organiser in FULL.  29th May 2020  Properties of the states of matter  Particle theory = all matter is node of particles  Solid = regular pattern  Particles wheate in fixed position  Liquid = particles are arranged randomly but  ore still southing each other and  mare around.  Ges = Particles are far apart and are  arranged randomly, Particles carry and are  arranged randomly, Particles carry and are  arranged randomly, Particles carry and are
Step 4	Step 5	Step 6
Read the keywords/definitions/facts out loud to yourself again and again and write the keywords/definitions/facts at least 3 times.  Solid = regular pattern perfiches vibrate in fixed position  Solid = regular pattern particles vibrate in fixed position  Solid = regular pattern perficles vibrate in fixed position	Open your quizzable Knowledge Organiser.  Write the missing words from your quizzable Knowledge organiser in your prep book.  A What is particle theory?  A Describe the arrangement and more states of matter.  B. What is the law of conservation of mass?  A Describe the arrangement and more states of matter.  B. What is the law of conservation of mass?  Free g. Arrangement / Markon and of matter.  Case Case Case Case Case Case Case Case	Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident.  Particle theory and matter is made of particles  Solid - regular pattern  porticles vibrate in fired position  Liquid = particles fre arranged randoms but  are still southing each other and  mare ground  Gas = Particles are for apart  arranged randoms, Particles carry and one of energy

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

## ENGLISH —Poetry cluster 1: The Romantics- Traditional

### **Romanticism:**

- A movement in literature and the arts
- From around 1800-1890
- During this time, major transitions took place in society, as dissatisfied intellectuals and artists challenged the Establishment (the church and the monarchy).
- The Romantics valued freedom, imagination, emotion and nature
- They were critical of power that institutions (such as the church and monarchy) had as they believed that they exploited the poor and restricted people's freedoms

Key Vocabulary	
Tyrant	A cruel and unfair ruler
Transient	Lasting for only a short time
Hubris	Having extreme pride or self-confidence
Oppression	When leaders treat people in a cruel or unfair way over a long period of time.
Patriarchy	A society where men have the most power and control
Egocentric	Thinking only of oneself
Awe	A feeling of deep respect mixed with fear or wonder
Radical	Wanting to see extreme changes in politics and society
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
Revolution	A large group of people using force to change the political system of their country
Exploit	Treating someone unfairly in order to benefit from them.
Anti-establishment	Disagreeing with the people who have power and make decisions

# ENGLISH –Poetry cluster 1: The Romantics- Traditional

Romanticism:		
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•		
•		
•		
•		

Key Vocabulary	
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Ephemeral	
Autocratic	
Sinister	
Revolution	
Exploit	
Anti-establishment	

Poem	Cor	ntext	Even	ts in the poem	Me	essage	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.
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 over-controlling 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 carries love and death together.		Blake wanted to highlight the desperate suffering of the poor in 19 <sup>th</sup> 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.

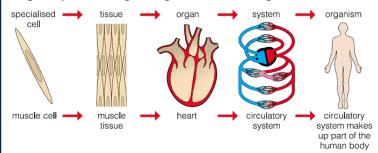
Poem	Context	Events in the poem	Message	Form/ structure
The Prelude-William Wordsworh		·		
My Last Duchess-Robert Browning				
Ozymandias-Percy Shelley				
London-William Blake				

### **T1 Y10 Mainstream Science/Biology B2 – Organisation**

### **Levels of Organisation**

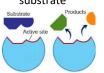
Cells = basic building blocks of all living organisms.

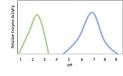
A tissue = group of cells with a similar structure and function. Organs = aggregations of tissues performing specific functions. Organs systems = organs organised to form organisms.



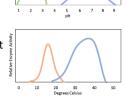
### **Enzymes**

- Biological catalysts
- Digestive enzymes speed up the break down of insoluble food molecules
- Specific shape active site that matches substrate





Enzymes work best at certain temperatures or pH depending on their role.



### Bile

The liver makes an **alkaline** solution called bile. Stored by the gall bladder.

Has two jobs:

- Emulsifies fats
- Neutralises stomach acid.

### **Digestive Enzymes**







# Digestive System Salivary glands Oesophagus Liver Gall bladder Pancreas Small intestine Appendix Rectum Anus

Organ	Function
Mouth	Teeth and tongue to chew food.
Salivary Glands	Releases saliva containing enzymes.
Oesophagus	Muscle tube to squeeze food along.
Stomach	Contains enzymes and hydrochloric acid. Is made of muscle to churn food. Hydrochloric acid kills bacteria in food
Small Intestine	Where digestion is completed and soluble food particles (glucose, amino acids, fatty acids, glycerol). are absorbed
Large Intestine	Absorbs water.
Liver	Produces bile.
Gall Bladder	Stores bile.
Pancreas	Releases enzymes.

### Where are the enzymes?

Enzyme	Salivary glands	Stomach	Pancreas	Small intestine
Amylase	х		х	х
Protease		х	x	х
Lipase			х	х

### **RP3 - Food Tests**

Summaries of the four food tests.

	Protein	Starch	
I	Add Biuret's reagent	Add Iodine	
I	Positive test; Blue solution	Positive test; solution turn	าร
	turns <b>Purple</b>	from orange to Black	
	Fats	Glucose	Bath
I	Add Ethanol and water	Add Benedict's and heat	
I	Positive test – solution turns	Positive test blue solution	ı
	Cloudy	turns Brick red	

- 1. What is an organ system?
- 2. What are group of cells with a similar structure and function?
- 3. Give an example of an organ.
- 4. Put these into order, starting with the smallest:tissue cell organ system organ

- 1. What is an enzyme?
- 2. What is the name of the part of the enzyme that the substrate fits into?
- 3. Give two factors that affect how enzymes work

- 1. Where is bile made?
- 2. Where is bile stored?
- 3. What are the two jobs of bile?
- 1. Which enzyme breaks down starch?
- 2. What are the products of fat digestion?
- 3. What are proteins made of?

- 1. Where are the salivary glands found?
- 2. What is the job of the oesophagus?
- 3. What is the job of the pancreas (in digestion)?
- 4. What is the job of the small intestine?
- 5. What is the function of the hydrochloric acid in the stomach?

- 1. Where is lipase released from?
- 2. Which enzyme is released in the stomach?
- 3. Which enzyme is found in the mouth?
- 1. Which two chemicals are added to test for fats?
- 2. What is the colour change when Biuret is added to a food containing protein?
- 3. Which test needs to be placed in a water bath?

### T1 Y10 Mainstream Science/Biology B2 – Organisation

### The effect of pH on the rate of reaction of amylase

- 1. Add 2cm<sup>2</sup> amylase solution, 2cm<sup>2</sup> of starch solution and 2cm<sup>2</sup> of pH2 buffer to a water bath (37°) in separate test tubes. Wait 10 minutes.
- 2. While waiting, add 2 drops of iodine solution to each well on the spotting tile.
- 3. Once the solutions in the water bath have reached 37° pour the amylase and PH2 buffer into the starch solution.
- 4. Immediately take a sample with a pipette and add to the first well of the spotting tile.
- 5. Repeat step 4 every 30 seconds until there is no colour change when testing with jodine solution.
- Repeat steps 1-5 with pH4, pH6, pH8 and pH10 buffers.



### **Blood Vessels**







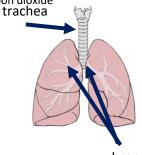
### **Capillaries Veins Arteries**

- Blood carried away from heart
- Thick muscular and elastic walls = withstands high pressure
- Small lumen = maintains high pressure
- Walls only one cells thick = shorter diffusion pathway
- Lumen just bigger than red blood cell Blood flows very
- slowly Diffusion takes place here

- Blood carried back to heart
- Thin walls as blood is low pressure
- Large lumen lower resistance for blood passing through
- Valves prevent back flow

### **Respiratory System**

The lungs have two jobs – to get oxygen into the blood and remove carbon dioxide

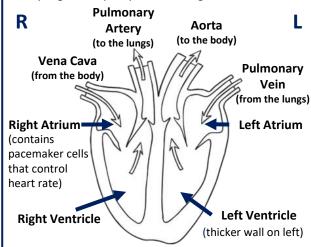


bronchi

Structures that cannot been seen on this diagram are the alveoli and capillary network – see 'unit 1 diffusion'.

### The Human Heart

Double pump because - left side pumps to whole body, right side pumps to the lungs.



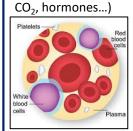
### Blood – 4 components

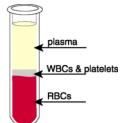
Red blood cells - contain haemoglobin to carry oxygen. More detail...

White blood cells – fight pathogens (see unit 3 – infection and response).

Platelets – cell fragments that clot blood.

Plasma – liquid part that transports cells, cell fragments and dissolved substances (salts, urea,

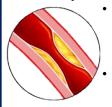




### **Red Blood Cells (RBCs)**

- · Contain chemical 'haemoglobin'.
- This reacts/ binds with oxygen to be carried around the body.
- RBCs are ~8µm (relative small animal cell) allows them to fit through capillaries
- Bi-concave disc shape for large SA:V

### **Coronary Heart Disease (CHD)**



- Coronary arteries supply heart muscle with blood (containing glucose and oxygen for respiration)
  - Can become narrowed/blocked by fatty deposits if cholesterol high, reducing blood flow.
- Reduced muscle contraction in heart

### T1 Y10 Mainstream Science/Biology B2 – Organisation

### The effect of pH on the rate of reaction of amylase

- 1. What temperature should the water bath be set at for the affect of pH on amylase practical?
- 2. What is the name of the chemical used to test for the presence of starch?
- 3. What is the independent variable in the investigation?

- 1. Which blood vessels contain valves?
- 2. Which vessels carry blood under very high pressure?
- 3. In which blood vessels does diffusion take place?
- 4. Which blood vessels have thick muscular walls?
- 5. Which vessels have a wide lumen?

- What is the name of the tube that connects the throat to the lungs?
- 2. What is the name of the tubes that enter each lung?
- 3. What are the two jobs of the lungs?

- Which blood vessel returns blood to the heart from the lungs?
- 2. Which blood vessel carries blood away from the heart towards the body?
- 3. Which ventricle wall is thicker?
- 4. Where are pacemaker cells found?
- 5. Why is the heart knowns as a double pump?

- 1. Name the two types of cells in blood.
- 2. What are platelets?
- 3. What do platelets do?
- 4. Name 3 substances plasma might have dissolved in it?

- 1. What chemical is found inside red blood cells?
- What is the 3D shape of RBCs called? What is the advantage of this shape?
- What do coronary arteries do?
- What can block coronary arteries?
- 3. What will happen to the heart if they become blocked?

### T1 Y10 Mainstream Science/Biology B2 - Organisation

### Heart Disease Treatment - Statins vs Stents

Statins	Stents	
<ul> <li>Medication to be taken everyday</li> <li>Lowers blood cholesterol</li> <li>Does not work immediately</li> </ul>	<ul> <li>Mesh tube to be inserted into artery to hold it open</li> <li>Surgery required</li> <li>Works immediately</li> </ul>	

### **Faulty Valves**

- Valves in veins and the heart prevent backflow of blood
- Faulty valves = don't open or close fully
- Can be replaced with man-made valves or transplants from donors



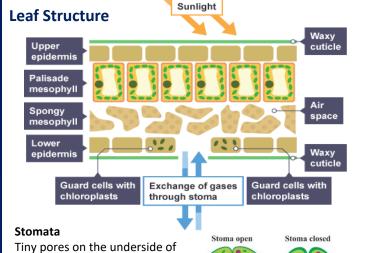
### Cancer

Uncontrolled cell growth Benign tumours = abnormal cells, contained in one area, in a membrane, do not invade other parts of body.

Malignant tumours = cancer cells, not in a capsule, invade neighbouring tissue, and spread into blood and form secondary tumours.

### **Risk Factors**

Lifestyle factors can have be risk factors for certain diseases. E.g. obesity is a risk factor for type 2 diabetes, or drinking and smoking while pregnant affects the development of the foetus.



the leaf.

Allow oxygen and CO2 to diffuse in and out

Guard cells surround the stomata and can open and close the pore

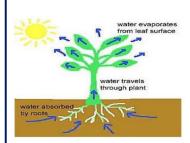
### Interaction of Diseases

- Defects in the immune system - individual is more likely to suffer from infectious diseases.
- Viruses can trigger cancers, e.g. HPV can trigger cervical cancer.
- Immune reactions caused by pathogens can trigger allergies such as asthma or rashes
- Severe physical ill health can lead to depression and other mental illness.

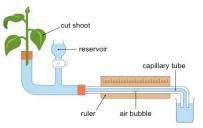
### **Transpiration**

healthy

Movement of water through plant from roots to leaves, driven by evaporation through the stomata



### Measuring transpiration



Record the distance the bubble of air L moves along the scale during set amount of time to calculate volume of water uptake per minute.

Transpiration	Translocation
Movement of water from roots to leaves	Movement of dissolved sugars from leaves all round the plant
Xylem - hollow tubes strengthened by lignin.	Phloem – tubes of elongated cells.
One way system – roots to leaves.	Two way system – sugars taken to wherever they are needed.

### Increasing the rate of transpiration

- Higher temperature
- Lower humidity
- Higher light intensity
- · Higher air movement

<b>T1</b>	Y10 Mainstream Science/Biology	/ B2	<ul><li>Organisation</li></ul>		
1.	How do stents treat CHD?	1.	What is a benign tumour?	1.	What are the cells called that surround the stomata?
<ol> <li>3.</li> </ol>	How do statins treat CHD?  Give an advantage of using stents rather than statins to treat CHD	2.	Why do benign tumours not spread?	2. 3.	What is the job of the stomata? What the top layer of a leaf called?
	rather than statins to treat Chib	3.	How can malignant tumours spread?	4.	Which tissue in a leaf has air spaces?
1.	What is the job of a valve?		tumours spread?	5.	Which layer in the leaf contains cells with lots of chloroplasts?
2.	How can faulty valves be treated?	4.	Name a disease linked with obesity		
1.	Give and example of when cancer can be triggered by a virus.	1.	What is transpiration?		
		2.	What is translocation?		
2.	2. Give an example of an immune reaction that can be triggered by a		Which tissue carries out tran	sloca	ition?
	pathogen	4.	Name 2 conditions that affect	t the	rate of transpiration.
		5.	Describe how to investigate t	he ra	ate of transpiration.

### T1 Y10 Mainstream Science/Physics P2 - Electricity

### Current, resistance and potential difference

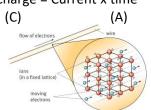
Electrical current is the flow of electrical charge.

Current is measured in amps (A), charge is measured in Coulombs (C).

The size of the current depends on the rate of the flow of charge – ie how many coulombs of charge per second.

Ohms Law

### **Q = I t**Charge = Current x time

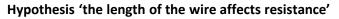


The current through a component depends on the potential difference and the resistance of the demonent.

If a component has high resistance, the current will be smaller for a given potential difference

potential difference = current x resistance **V = I R** 

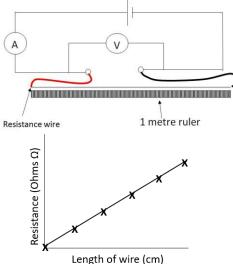
pd is measured in volts (V), resistance in Ohms ( $\Omega$ )



Independent variable – length of wire Dependent variable – resistance Control variables – type of wire, temperature of the wire, diameter of the wire

- 1. Set up the circuit as shown, with an ammeter in the circuit and a voltmeter connected across the wire
- 2. Use crocodile clips to change the length of the wire in the circuit
- 3. Make the wire 10cm long and read the current and pd. Switch off the current between readings or the wire will got hot, increasing the resistance.
- 4. Repeat for 20, 30, 40, 50 cm. (5 minimum)
- 5. Calculate resistance using Ohms Law R = V/I

Plot length of wire (IV) against resistance (DV)

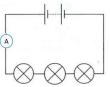


The relationship is directly proportional

### Series and parallel circuits

### Series circuits:

A series circuit is one single loop



In a series circuit:

- the current is the same at all points in the circuit.
- potential difference is shared between components (equally if components are identical resistance)
- total resistance = sum of all resistors

### **Parallel circuits**

A parallel circuit consists of more than one loop from the battery/cell.



In a parallel circuit:

- The current is shared amongst the branches
- The potential difference is the same across all components
- Resistance in the whole circuit is LESS than that of the smallest resistor

### T1 Y10 Mainstream Science/Physics P2 - Electricity

### Current, resistance and potential difference

- 1. What is current?
- 2. What is the unit for charge?
- 3. What is the unit for current?
- 4. What is the equation linking charge, current and time?
- 5. What is the equation linking current, potential difference and voltage?
- 6. If a component's resistance increases, what happens to current through that component?
- 7. What is the unit for resistance?

### Hypothesis 'the length of the wire affects resistance'

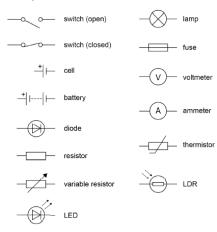
- 1. What is the independent variable in this investigation?
- 2. What is the dependent variable?
- 3. What is the minimum number of readings needed for a line graph?
- 4. What two readings are taken?
- 5. How is resistance calculated?
- 6. What sort of relationship is seen?
- 7. Why is it important to turn off the power in between readings?

### Series and parallel circuits

- 1. What is a series circuit?
- 2. In a series circuit, the current is......
- 3. How do you find total resistance in a series circuit?
- 4. The potential difference is shared equally among components as long as........
- 5. What is a parallel circuit?
- 6. What is true about potential difference across all of the components in a parallel circuit?
- 7. How is total current calculated in parallel?
- 8. What is true for total resistance in a parallel circuit?

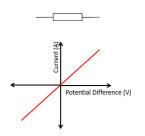
### T1 Y10 Mainstream Science/Physics P2 – Electricity

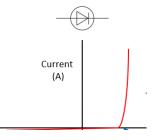
### **Components**



- A diode only allows current to flow one way in a circuit
- A **resistor** is a component that provides a fixed resistance in the circuit e.g a 5  $\Omega$  resistor
- A variable resistor is a component whose resistance can be changed (e.g a dimmer switch)
- A **thermistor** is a resistor whose resistance changes with temperature the higher the temperature the lower the resistance
- An LDR (light dependent resistor) has resistance that changes
- An LED (light emitting diode) is a light that only allows the flow of current one way

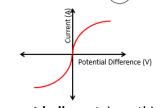
### Current, potential difference and resistance for different components





### A fixed (ohmic) resistor

has fixed resistance current is directly proportional to potential difference Resistance remains constant (at constant temp) A diode very high resistance in one direction.
Only when the potential difference is positive does current flow



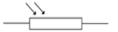
A filament bulb contains a thin wire that glows as current flows.

As the pd increases, the current initially increases.

However, at higher pd, the wire gets hot

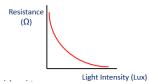
The ions in the wire move faster and collide with the moving charges Resistance increases, so current stops increasing

### LDR



A light dependent resistor has varying resistance.

As the light intensity increases, the resistance decreases



LDRs can be used to switch on lights at night time.



In this circuit, when it is day time, the resistance in the LDR is low, so all current flows through the LDR.

As light levels fall, resistance increases, until eventually there is less resistance in the bulb than the LDR, so current flows through the bulb – switching it on.

### **Thermistor**



As the temperature increases, the resistance in a thermistor decreases.

### T1 Y10 Mainstream Science/Physics P2 - Electricity

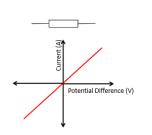
### Components

Symbol	Name
	Cell
- 1	
	fuse
—(A)—	
	Voltmeter

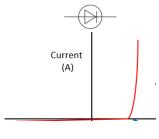
- 1. Complete the table opposite
- 2. Which component has a resistance that decreases as light intensity increases?
- 3. Which component only allows current to flow one way?
- 4. What is a fixed resistor?

### Current, potential difference and resistance for different components

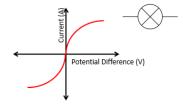
1. What readings would you need to take from a circuit to calculate resistance?



2. Describe the relationship shown



3. Why is there no current on one side of the graph?



- 4. What happens to current when the pd rises at first ?
- 5. What happens to the current as the pd gets higher?
- 6. Why does the resistance increase at higher pd?

### LDR

- 1. Draw the symbol for an LDR
- 2. Draw the pattern you would expect for resistance as the light intensity increases.

3. The circuit below is for a night light. What is resistance in the LDR like during the day time? (high light levels)



- 4. Why does the light switch on when it goes dark?
- 5. Draw the symbol for a thermistor
- 6. Describe the relationship between temperature and resistance in a thermistor



### 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	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. Factors 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 terms			
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. Sustainable 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			
urburriving	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	Maintain green spaces around towns-			
green space	Cools area, encourage exercise, happy.			

6. Urban transport strategies			
used to reduce traffic congestion			
cong			
	air pollution (global warming).		
Problems	å Late for work, deliveries delayed.		
with	★ 7 accidents, stress, asthma.		
congestion	In Bristol, 200 people die as a result of		
	air pollution each year.		
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,		
Park and ride	with buses into the city centre.		
Congestion	Charge for entering the city centre at		
charge	peak times.		
Bus lanes	Stop buses being held in traffic.		



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



1. Glob	oal pattern of urban change			
•	The world's population is growing rapidly; currently 50% of us live in urban areas.			
Urbanisation				
HICs				
NEEs				
LICs				

4. Key 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. Factors affecting urbanisation	
Rural- Urban migration	
Push factors	
Pull factors	
Natural Increase	

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

3. Megacities	
Megacity	
How many?	
Where?	

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?	
disposable in  Companies p infrastructur	ovide jobs > people have more acome > home market enlarges. bay tax > government invests in e like roads > attracts more companies sitive multiplier effect.

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> .
Summary	National economic benefits vs local
	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. Officeer in 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.	
Douglan	Long term support by charities or	
Develop- mental aid	governments to improve QoL. E.g.	
Illelital alu	infrastructure, education, clean water	
Aid in Nigeria		
What?	4% of aid given to Africa.	
wnate	UK gave £360 million in 2014.	
Nets for life	Nets to prevent malaria.	
	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 manufacturing stimulate economic development?		

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:	





### 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.
Phlebotom ey	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 .

Ulan annata a	Calair		C. Key People	111-
Hippocrates  '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	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 worked for master to train).  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 shelter, beds, food and very limited treatment.		
B. What were the causes of disease	e in Medieval England?			
Causes			<u>Prevention</u>	<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.  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		Religious - Church – Lead a life free of sin.  Regular prayers and confessions.  Offering tithes to the church to make sure sins were forgiven quickly.  Rational and religious - Regimen Sanitatis – A set of instructions provided by physicians to maintain good health.  Bathing was also used to prevent miasma.	Religious – Healing prayers and incantations  Paying for a special mass to be said  Fasting Pilgrimages  Supernatural - Astrology – Treatments varied according the the horoscope of the patient. The alignment of the planets was checked at every stage of the treatment	
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.  Supernatural - Astrology – Impact of the stars and		Rational - Diet — Eating to much was strongly discouraged. What and when you ate were considered to be important in preventing a humoural imbalance.  Rational - Purifying the air —This was		
planets on health. Physicians would use star charts to examine a patient and work out what was wrong with them.		achieved by spreading sweet herbs.	Using herbal infusions to drink, sniff or bathe in.	



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



							<del></del>
What we are learn	ing this term:				Key People		
1.2 Approaches to	cause of disease and illness treatment and prevention	Hippocrates	Galen		Physicians, apothecaries and surgeons		Hospitals
1.3 Dealing with th	e Black Death 1348-49						
		.					
C.	Dealing with the Black Death						
What is the Black Death?							
Causes							
Treatments		What were the causes of disease i	n Medieval England?				
		Causes		<u> </u>	<u>Prevention</u>	Treatmen	<u>its</u>
Prevention							
		1					
Α.	Can you define these key words?						
Miasma							
Quarantine							
Humours							
Purging							
Phlebotmey							
Leprosy							
Prevention							
Treatment							
Apothecary							
Barber surgeon							
				1		1	

### Year 10 Spanish Knowledge Organiser Term 1 Module 1



Use this knowledge organizer to help you with revision for GCSE Spanish. You can make flashcards with the words, create vocab lists and write sentences with the words putting the vocabulary into content. This KO contains all the important words from Module 1 GCSE Spanish.

Any questions please ask your Spanish Teacher ©

### El mundo hispanohablante (pages 6-7):

Mi nombre es / Me llamo ... Soy / Es una persona ...

La personalidad

Soy como ... Soy / Es ... bueno/a divertido/a Personality

My name is / I am called ... I am / He/She is a ... person.

I am like ...

I am / He/She is... good

funny, amusing

interesante / optimista positivo/a / práctico/a responsable / social \*tímido/a

trabajador/a tranquilo/a

interesting / optimistic positive / practical responsible / social

shv

hard-working calm, tranquil, relaxed

### Mi vida digital (pages 8-9):

¿ Qué haces con tu móvil?

¿ Qué haces con tu ordenador/portátil?

Escucho música Mando / Recibo mensajes Leo las noticias

\*Envío correos electrónicos \*Saco fotos / Grabo vídeos Uso aplicaciones como ...

Utilizo las redes sociales No tengo ordenador

Chateo en línea/con mis amigos Hago compras / \*llamadas

Soy \*adicto/a a ...

Mis amigos y yo ... \*sacamos fotos / subimos vídeos

no jugamos mucho a los \*videojuegos

What do you do on your phone? What do you do on your computer/laptop?

I listen to music I send / receive messages

I read the news I send emails

I take photos / record videos I use apps like ...

I use social media

I don't have a computer I chat online/to my friends I shop / I make calls

My friends and I ...

I am addicted to ...

take photos / upload videos don't play videogames much Prefiero / Preferimos / Prefieren ... 1/ We / They prefer (to) ... aplicaciones como ...

compartir/subir imágenes ... \*enviar correos electrónicos hacer compras por Internet

jugar \*en directo a ... ver vídeos/programas ver documentales/series

¿Cuánto tiempo pasas ...?

Paso horas al día Siempre / Todo el tiempo Todos los días / A menudo

De vez en cuando A veces

(Casi) Nunca

Una vez / dos veces a la semana Los fines de semana

apps like ...

share/upload images ... send emails

shop on the Internet

play ... live

watch videos/programmes watch documentaries/series

How much time do you spend ...?

I spend ... hours per day Always / All the time

Every day / Often From time to time Sometimes

(Almost) Never

Once / twice a week At the weekends

### ¡Disfrutamos al máximo! (pages 10-11): ¿Qué deportes haces? What sports do you do? ¿Qué actividades te gusta What activities do you like Juego al/a la ... I play ... hacer? doing? Practico / Hago ... I practise / I do ... (No) Me gusta (mucho) ... I (don't) (really) like ... (el) atletismo athletics (No) Me encanta... I (don't) love ... (el) baile / ciclismo / deporte dance / cycling / sport (No) Me interesa (nada) ... I am (not) interested in ... (at (el) fútbol / baloncesto / tenis football / basketball / tennis all) ... (la) natación Prefiero / Preferimos ... I prefer / We prefer ... swimming escuchar música/mis canciones listening to music/my ¿Qué te gusta hacer en tu What do you like doing in favoritas favourite songs tiempo libre? your free time? being at home with my estar en casa con mi familia family ¿Qué actividades haces en tu What activities do you do in hacer ciclismo / ir a conciertos going cycling / going to tiempo libre? your free time? concerts En mi tiempo libre ... In my free time ... jugar al fútbol/voleibol/tenis playing football/volleyball/ Si tengo / tenemos tiempo, ... If I / we have time.... tennis Si tengo / tenemos dinero, ... If I / we have money, ... montar a caballo horse riding vov / vamos al/a la ... I/we go to the ... salir con mis amigos going out with my friends leo / veo / bailo / escucho... I read / watch / dance / ver películas en mi portátil/ watching films on my listen to ... móvil laptop/mobile juego al/a la / hago ... Iplay/do... ver películas/una comedia en watching films/a comedy in porque me ayuda a ... because it helps me to ... el cine the cinema estar en forma keep fit leer (libros/novelas de ...). reading (... books/novels). forget everything olvidarme de todo I (don't) do many activities (No) Hago muchas actividades stay in touch with ... mantenerme en contacto con ... porque es/son ... because it is/they are ... aburrido/a(s) / difícil(es) boring / difficult ¿Eres miembro de algún club? Are you a member of a club?

Soy miembro de un equipo (local).

I am a member of a (home)

team.

divertido/a(s)/ emocionante(s)

fácil(es) / guay

relajante(s) / terrible(s)

fun / exciting

relaxing / terrible

easy / cool

### Nos juntamos (pages 12-13):

Este fin de semana / Primero Luego \*Por la mañana/tarde/noche Quiero / Queremos ... Mis amigos/padres y yo vamos a ... (No) Voy a ... descansar / estar en casa hacer deporte/los deberes ir de compras ir al parque/cine/centro comercial ir a un restaurante ir a la piscina limpiar mi habitación salir (por la tarde) tomar un café mandar mensajes a mis amigos

hacer tareas

¿Qué vas / vamos a hacer? What are you / we going to do? This weekend / First Later/afterwards In the morning/afternoon/evening I/We want to ... My friends/parents and I are going to ... I am (not) going to ... rest / be at home do sports/homework go shopping go to the park/cinema/ shopping centre go to a restaurant go to the pool clean my bedroom go out (in the afternoon) have a coffee send messages to my friends

do chores

No puedo ... porque tengo que ... hacer los deberes salir con mis padres/abuelos trabajar / cuidar a mi perro ¿Tienes planes? (No) Tengo planes para ... hov / mañana este fin de semana el viernes/sábado/domingo la semana próxima/que viene Estoy libre. / No puedo ir. Lo siento. / ¡Claro que sí! No tengo dinero. De acuerdo. ¿A qué hora quedamos? A las (diez) en (la \*cafetería). ¿Quedamos a las (cuatro)?

I can't ... because I have to ... do my homework go out with my parents/ grandparents work / look after my dog Do you have (any) plans?

I (don't) have plans for ... today / tomorrow this weekend Friday/Saturday/Sunday next week

I am free. / I can't come. I'm sorry. / Of course! I don't have (any) money. OK.

What time shall we meet? At (ten o'clock) at (the café). Shall we meet at (four o'clock)?

### El fin de semana pasado (pages 14–15):

¿Qué hiciste ...?
El fin de semana pasado / Ayer
El sábado/domingo pasado
La semana pasada
El mes pasado
Hace ... días
Hace una semana ...

ace ... días
ace una semana ...
comí / bebí ...
compré una entrada para un
partido de fútbol
escuché música
no hice mucho
fui a un restaurante
fui a un concierto
gané una competición
(de natación)
me quedé en casa todo el día
hablé con mi amigo en el
parque

What did you do ...?
Last weekend / Yesterday
Last Saturday/Sunday
Last week
Last month

... days ago A week ago ...

l ate / l drank ... I bought a ticket to a

football match
I listened to music

I didn't do much

I went to a restaurant
I went to a concert

I won a (swimming) competition

I stayed at home all day I spoke to my friend at the

park

salí con mi amigo al centro comercial fui al **gimnasio** y \*entrené

jugué a los \*videojuegos

Mi familia y yo ...
comimos en un restaurante
(peruano)

fuimos a la piscina salimos a comer

¿Qué tal fue? ¿Por qué (no) te gustó?

Me gustó / Me encantó No me gustó (nada)

porque fue ...

aburrido/a / emocionante fantástico/a / guay / terrible I went out to the shopping centre with my friend
I went to the gym and trained
I played videogames

My family and I ...

(we) ate at a (Peruvian)

restaurant

(we) went to the pool

(we) went out to eat

How was it?
Why did you (not) like it?
I like it / I loved it
I didn't like it (at all)
because it was ...
boring / exciting
fantastic / cool / terrible

### ¡Un día fatal! (pages 16-17): ¿Qué pasó el fin de semana What happened last Perdí ... I lost ... el móvil / al perro / a mis my mobile / dog / friends pasado? weekend? amigos Tuve un día ... I had a(n) ... day Lo/La/Los/Las perdí en ... I lost it/them in/at ... difícil / \*estresante / \*fatal difficult / stressful / awful Lo/La/Los/Las encontré en I found it/them in/at ... \*horroroso / malo / terrible horrific / bad / terrible casa / la ciudad home / the city porque ... because ... the car / the train el coche / el tren comí ... / no comí (nada) I ate ... / I didn't eat (anything) the stadium / the metro/ el estadio / el metro llegué muy tarde I arrived very late underground no hice los deberes I didn't do my homework pasé todo el día enfrente de la I spent all day in front of the ¿ Qué vas a hacer el fin de What are you going to do televisión television semana próximo? next weekend? I fell me caí El fin de semana próximo Next weekend El sábado próximo Next Saturday Fui/Fuimos a ... I/We went to ... La próxima vez Next time un concierto / un partido a concert / a match (no) vov a ... ver una película de ... watch a ... film I am (not) going to ... ir al estadio go to the stadium Y ... and ... ver otra película de terror watch another horror film the singer's voice was terrible la voz del cantante fue terrible travel by ... el grupo / la banda fue the group / band were horrific viajar en ...

my team lost

the sound didn't work

\*horroroso/a mi equipo perdió

el sonido no funcionó

### 1. Methods of growth

When a market is growing, it is important for a business to grow in order to retain market share.

Method of growth	Explanation
Internal/organic growth	A business can grow by creating new products,
	entering new markets, increasing their advertising and
	opening new premises.
External/inorganic	A business can grow by merging with another company
growth	or by winning a takeover of another company.

### 2. Finance for growth

A business must find sources of capital to pay for growth.

Term:	Definition:	
Internal sources of financing.	A business can use 'retained profit' (capital they have saved from profit) or they could 'sell assets' (selling old or unused machinery/equipment). Internal sources of funding are from an internal sources such as an existing business owner or the business itself rather than from someone or an organisation outside of the business.	
External Sources of financing.	A business could take out a loan (loan capital), or sell shares (share capital). External sources of funding are from an external sources such as a bank or an investor rather than from the business owners or the business itself.	

### 3. Why do aims & objectives change?

As businesses evolve, they need to adapt their aims and objectives to changing circumstances.

circumstances.		
Changing market conditions	Controlled by customer behaviour, what do customers want?	
Changing technology	As technology changes, business needs to adapt to how customers use technology.	
Changes in performance	If costs increase, the chances are the profit margin of the business will decrease. A business needs to be clear on whether they are aiming for quality or price.	
Changes in legislation	If the law changes, this can bring uncertainty as the business may have to stop manufacturing/selling a certain product or be unable to predict future trends.	
Internal Reasons	Changes in management or changes to the culture of the company.	

### GCSE Business. Paper 2.

### Growing the business

### 4. Globalisation

The increasing tendency for countries to trade with each other and to buy global goods such as Coca-Cola or services such as Costa Coffee.			
Imports Goods brought into one country from another.			
Exports	Goods sold to one country from another		
4. Globalisation			
Barriers to trade	Definition: Measures put in place by a government to control the numbers of goods imported into a country.		
Tariffs	Import taxes – taxes on imported goods.		
Trade blocs	An agreement between some countries to trade freely without any tariffs, but countries not within the agreement will be charged tariffs.		

### 5. Ethics & business

How the behaviour of a business is	judged against human morals.
Term	Definition
Fair Trade	A global scheme that states that farmers or producers are paid a fair price for their goods. Business costs are higher, but customers will pay more for Fair Trade products.
Environmental	Businesses are constantly monitored for their environmental impact. Behaving in an environmentally ethically manner means to not pollute or damage the local/national/global environment – sea, land or sky.
Labour	Human morals dictate that a business should pay its workers fairly and that working conditions should be safe and clean. If a business sub-contracts work to international manufacturers in Asia, human morals dictate that those workers of the contractor are paid fairly and work in safe, clean conditions also.

### 6. Ways to extend the Product Life Cycle of a Product

ldea:	Explanation
Find new uses for the product	If a product can be used for multiple purposes, ensure that your target audience is aware of this
Change the appearance, format or packaging	Changing the appearance of a product can give it a new lease of life and allow the customer is perceive it as new again.
Encourage use of the product on more occasions	If a product can be used for multiples different occasions make sure the customer base is aware of this
Adapt the Product	Continue to make small adaptations to products to improve the quality of the product on offer.

	GCSE Business. Paper 2.	Growing the business
4. Globalisation		
The increasing tendency for countries to trade with each oth	er and to buy global goods such as Coca-Cola or servio	ces such as Costa Coffee.
Imports		
Exports		
4. Globalisation		
Barriers to trade		
Tariffs		
Trade blocs		
5. Ethics & business		
How the behaviour of a business is judged against human morals.		
Term		
Fair Trade		
Environmental		
Labour		
6. Ways to extend the Product Life Cycl	e of a Product	
Idea:		Explanation
Find new uses for the product		
Change the appearance, format or packaging		
Encourage use of the product on more occasions		
Adapt the Product		

### GCSE Business. Paper 2.

### 8. Making Marketing Decisions

1. Product (Part of the Marketing Mix)			
When designing a new product, the key is to design a product that matches the needs or wants of your chosen target market.			
Every product needs t	Every product needs the right balance between:		
Product strategy	Explanation		
Economic	Making sure that the design of the product to		
Manufacture	be made cost effectively. A complex or		
	expensive design can lead to increased costs.		
Function The design of the product is crucial. The product must work/function effectively			
A+b -+i	Harry married along the planting of the amount of		

that matches the needs or wants of your chosen target market.		
Every product needs the right balance between:		
Product strategy	Explanation	
Economic	Making sure that the design of the product to	
Manufacture	be made cost effectively. A complex or	
	expensive design can lead to increased costs.	
Function	The design of the product is crucial. The product must work/function effectively	
Aesthetics	How much does the design of the product appeal to the senses. When designing a product it is crucial to consider the way it looks	

2. Product (Key Terms)		
At the heart of the marketing mix is the product		
Term:	Definition:	
Product Differentiation	The extent to which consumers see your product as being different from its rivals	
Product Life Cycle	The theory that every product goes through the same four stages of introduction, growth, maturity and design	

4. Ways to extend the Product Life Cycle of a Product		
Idea:	Explanation	
Find new uses for the product	If a product can be used for multiple purposes, ensure that your target audience is aware of this	
Change the appearance, format or packaging	Changing the appearance of a product can give it a new lease of life and allow the customer is perceive it as new again.	
Encourage use of the product on more occasions	If a product can be used for multiples different occasions make sure the customer base is aware of this	
Adapt the Product	Continue to make small adaptations to products to improve the quality of the product on offer.	



3. Stages of the Product Life Cycle				
Term:	Explanation:			
Introduction	First a company needs to spend time researching the product and the marketplace. The product will be developed, tested, and launched.			
Growth	At this stage the product becomes known in the market. At this stage customer awareness increases, prices will still be high.			
Maturity	At this point the market may become saturated as 'me too' products are launched into the market. Advertising is increasing to remind consumers about the quality of the product. Brand image needs reinforcing with its customers. The market is highly competitive, and prices are lower as a result			
Decline	The product's sales and profit's start to fall. The product is no longing offering what customers want or new technology has made the product obsolete.			

5. Promotional Strategy (Part of the marketing mix)		
Promotional strategy is the plan for how to communicate effectively with customers in order to meet sales revenue targets.		
Promotional Strategy:	Explanation:	
Advertising	Advertising is how a business promotes its products and communicates with its customers.	
Sponsorship	Sponsorship is where a business pays to have a brand or company name attached to an activity that has credibility with its customers.	
Branding	Branding is a way that businesses can give their products an identity that appeals to its target audience.	
Product Trials	A product trial means giving potential customers a free taste of a new product. This may entice new customers.	
Special Offers	Businesses can use special offers such as 'buy one get one free' to entice customers to purchase their products.	
Using Technology	In recent years, online advertising through social media and other platform such as websites and e-newsletters has become commonplace for firms.	

6. Pricing Strategy			
Pricing strategy is vital for any business – pricing your products can be the difference between business success and business failure.			
Market 9	Segment:	Pricing Strategy	
Mass Market		In mass markets where both competition and customer consumption are high. These markets are generally characterised by low prices and very similar products.	
Niche Markets		A niche market is based on a type of customer needs or wants something different to the majority. Generally these markets have few competitors but high prices.	
Pricing at each stage of the Product Life Cycle			
Introduction	Pricing at the	ring at the introduction phase of the product life cycle in some cases will be low to entice new customers to sample the product.	
Growth	Once a produ	Once a product is established within a market and has a customer base, businesses will sometimes increase prices to increase revenue.	
Maturity	When product growth is at an end, new pricing decisions may be needed. Business will ensure that pricing is competitive to ensure continuous revenue, other firms may decide that the brand may be in irreversible decline and will keep prices high to make a short-term profit.		
Decline	When sales have made a decisive step downwards, firms tend to lower prices to ensure a steady stream of revenue. However some firms with a loyal customer base may decide to increase prices in an attempt to gain short term profits.		

### GCSE Business. Paper 2.

7. Placing Strategy				
This element of the	This element of the marketing mix is about how to get the product from the producer to the customer. There are three main distribution channels - traditional,			
modern and direct.				
Type of Distr	ibution	Explanation:		
Direct Distribution		This is where a product is distributed directly from the producer to the consumers. An example of this is buying things directly from firms on the internet.		
Modern Distribution		This method is common in the grocery sector, where producers will deliver to distribution depots and then the products will be taken to stores to be sold. This method became popular when supermarkets become common place in the 1980s		
Traditional Distribution		This method, in the first instance involves a wholesaler buying goods directly from the consumers. From their the wholesaler will sell the products directly to firms who will then sell onto the consumers.		
8. Placing Strategy – Key Terms				
Term	Definition			
Distribution	How ownership changes as a product goes from producer to customer			
E-Tailer	An electronic retailer; in other words selling products electronically, either by e-commerce or, more likely these days, mobile commerce.			

9. Marketing mix and Business Decisions – Key Terms	
Business decisions are always about the future. So, when the marketing mix is being used to inform and carry out business decisions.	
Term	Definition
Budget	A ceiling on the amount of money that can be spent; a marketing budget of £1 million means the marketing manager can spend up to that figure, but no more.
Informed Decisions	Evidence that can be used to make a better decision; a company can gain a better understanding of it's customers through the 4p's, which helps in decision making

A shop or chain of shops, usually selling from a building in a high street or shopping centre

Retailer



#### Year 10 Food & Nutrition Term 1



#### What we are learning this term:

A. Proteins

B. Carbohydrates

C. Fibre & Water

D. Fats

E. Minerals

F. Vitamins

A.	Protei	ns – contain amino acids	
© X	0	Used for growth, repair and maintenance of the body.	
Source ?		Seeds, meat, fish, dairy, nuts and beans. Alternative: 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.		
(		Eibro 9 Water	

Sugars – digested quickly & energy released quickly. Monosaccharides or Disaccharides  Source  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.					
energy released quickly. Monosaccharides or Disaccharides  Fruit or added to food.  Starch – digested slowly & slow released of energy. Polysaccharides.  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	В.	Carbohy	Carbohydrates – used for energy		
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			energy released quickly.  Monosaccharides or		
slow released of energy. Polysaccharides.  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	Source ?		Fruit or added to food.		
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			slow released of energy.		
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	Sour	?	•		
dizziness, tiredness), body starts to use up fat & protein (weight & muscle loss).  Glycaemic Index (GI): show how quickly	Exce	+	to obesity), tooth decay, type 2		
	Deficiency		dizziness, tiredness), body starts to use up fat & protein (weight &		

gy	D.	Fats	
ickly & ly.			Nee insu prote orga
	Satura	ated Fats	
		lly come al source	
wly &	Exces	÷	Obe high risk
/e a lot	Defici	ency	Vita loss orga
nay lead ype 2	E.	Minera	ıls
	Calciu	ım	Sti he blo
y starts to ht &	Iron		Fo in
	Sodiu	ım	Co co mı

lodine

animal sources		vegetable sources.	
higher C		, Type 2 Diabetes, Cholesterol (increased onary Heart Disease).	
Deficiency	loss, les	Vitamin deficiency, weight loss, less insulation / bone & organ protection.	
E. Minerals			
Calcium	health	Strong bones & teeth, healthy nerves & muscles, blood clotting	
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	Helps	strengthen teeth &	

prevent tooth decay

Helps make some hormones

Needed for energy, vitamins,

**Unsaturated Fats** 

Mostly from

insulation (warmth) and

protecting your bones & organs, making cholesterol.

F.	Vitamins		
(A)		Mic the	

Micronutrients which help the body to function.

#### **Fat Soluble Vitamins**

Found in fatty food. Stored in fat tissue if not used up.

Α	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

Vitamins that dissolve in water & lost through urine – need to take daily! They are also lost when fruit and vegetables are exposed to air.

В	Keep the nervous system healthy	
B1, B2 & B3	Help with energy release	
B9 & B12	Help make red bloody cells.	
C	Protects body from infection, heals wounds	

#### Antioxidants

Vitamins A, C & E are antioxidants which may protect cells from free radicals chemicals you encounter every day.

proteins to get all the essential amino acids.		carbohydrates affect blood sugar levels.
C.	Fibre & Water	
Fibre		Water
Helps with digestion     Prevents constipation     Found in fruit, pulses, nuts, veg, wholegrain foods		<ul> <li>Helps get rid of waste &amp; digest food</li> <li>Controls body temperature</li> <li>6-8 glasses of water a day</li> <li>More during a hot day or exercising</li> </ul>



## 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	litamins	
A. Proteins – contain amino acids	B. Carbohydrates – used for energy	D. Fats	F. Vitamins
Source	Sugars		Fat Soluble Vitamins
Excess	Source ?	Saturated Fats Unsaturated Fats .	A
<b>①</b>	Starch	Excess	D
Deficiency	Source ?	Deficiency	К
High Biological Value Proteins	Excess	E. Minerals Calcium	Water Soluble Vitamins
Low Biological Value Proteins	Deficiency	Iron	В
Protein Completion:	Glycaemic Index (GI):	Sodium	B1, B2 & B3
C. Fibre & Water		Phosphorus	B9 & B12
Fibre	Water	Fluoride	С
• -	• -		Antioxidants
• •		lodine	
-	1		



#### Year 10 PRODUCT DESIGN Term 1



### What we are learning this term:

Scales of Production

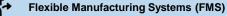
**Production Methods** 

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

D. Antl	nropometric	Data F	Ξ.
---------	-------------	--------	----

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

#### **Production Methods** В.



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.



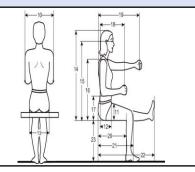
#### Just-in-Time (JIT) Manufacturing

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	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 trac	de	An organisation that helps workers have fair trading and working conditions in developing countries
D Anthronometric Data		

## **Anthropometric Data**

The study of human measurements to ensure the products and environments are the correct size for the intended user.



E.	Impact on People	ŤŤŤ		
Techn	ology Push	When technological discoveries are used to drive the development or creation of a product		
Marke	t Pull	When products are developed or created to meet the needs of society or a gap in the market.		
Univer	sal Design	When designs are focused on serving the broadest range of users possible, rather than trying to address individual accessibility or inclusion objectives.		
Inclus	ive 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)  Q - Q	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.				
Enviro	onmental 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.





Q.X.			T ea	r 10 PRODUCT					
What we are	e learning this t	erm:				E.	Impact on Peop	le	ή÷
	of Production tion Methods	C. Impact on Enterprise D. Anthropometric Data	E. Impact on Peop F. Impact on Desi	_		Techn	ology Push	(袋)	
A.	Scales of Prod	uction	C. Impa	t on Enterprise		Marke	t Pull		
Туре	How Many?	Examples	Crowdfunding				/ <b>Š</b>	<b>ブ</b>	
One-off Production			<u>.</u>			Unive	rsal Design (		
Batch Production	<b>&gt;</b>		Virtual marketin and retail	<b>一</b>			ive Design		
Mass Production			Cooperatives	B		User C	Centred Design (U	SD) ③ ─ ○ 	
Continuous Production			Fair trade			F.	Impact on Desig	gn	<u> </u>
(i)				*		Planne	ed escence		
	duction Metho	ds 🚟 8			1	Design	n for		
◆∱→ Flex	rible Manufactu	ring Systems (FMS)	D. Anthr	ppometric Data		Mainte	enance		
			le en	ا ده دا		Design Disass	n for sembly		
	Lean Mar	nufacturing		18—18—1					
				14 15 16		Enviro	nmental Design		
J	Just-in-Time (JI	T) Manufacturing		17	1	G.	Ergonomics		
_				+ + + + + + + + + + + + + + + + + + +	~		•		



## Year 10 Engineering Term 1



#### What we are learning this term:

A. Types of hazard

B. dimensions and scale C. material properties D. Tools and equipment

E. Categories of materials

A.	Health	& Safet	у		
Risk Assessme	ent	analys when	assessment is the sis of the risks involved using equipment or ming a process.		
Risk - how	v likely a	hazard i	ay harm someone. s to happen. taken to reduce the risk		
Ejection h material be of the mace the user	ing throv		Entrapment hazard – the user being caught and pulled into the moving parts of the machine		
Inhalation hazard – people in the vicinity of the hazard breathe in harmful dust or chemicals			Sharp force hazard – the user is cut, stabbed or scraped by the sharp material.		
Slip, trip a hazards – hazards ca unclean or workspace	common used by cluttered		Blunt force hazard – a victim is crushed, hit or bruised by the blunt object. Major blunt trauma can cause fractures or internal bleeding		

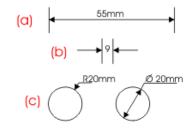
#### B. Dimensions and scale

**Dimensions** are the measurements of the object being shown. Engineers use certain lines for certain types of dimensions.

**Scale** is the size of the drawing relative to the size of the real life object. This is shown as a ratio.

(Drawing size): (Real life size)

1:2 = the drawing is half the size of the real thing.



#### Rules for dimensions:

a) Use extension lines and arrows from the measurement you are showing

hazards - 00			h) Management you are snowing		
unclean or cluttered workspaces.		,	object. Major blunt trauma can cause fractures or internal	<ul> <li>b) Measurements less than 10mm should have the arrows on the outside of the extension lines</li> <li>c) The symbol for radius is R while diameter is Ø.</li> </ul>	(
			bleeding.	Radius is usually used for arcs.	ı
C. Material properties					
Strength Ability of a material to withstand compression, tension, torsion, bending, and shear.				(	
Hardness		Ability to	o withstand abrasion and	wear and tear.	7
Toughness		Materials that can withstand impact or are hard to break or snap are tough & can absorb shock.		1	
Malleability		Being a	ble to bend or shape eas	sily would make a material easily malleable	L
Ductility		Materia	ls that can be stretched a	along their length are ductile	r
Elasticity A		Ability to	o be stretched and then	return to its original shape	

D.	Tools &	machines
		vertical mill – this machine allows you to remove material in an X, Y and Z axis with a milling bit.
>>>		<b>Dividers</b> are used to scribe arcs and circles onto materials.
		Scribes are used to scratch markings on metal while marking out. The tip is brittle, so never use it like a centre punch.
		The <b>centre punch</b> is made from mild steel, with the point hardened and tempered, so that it withstands impact with the material it is marking. It is used to mark the centre of a hole to be drilled
		A <b>Vernier caliper</b> . Can take internal, external and depth measurements.
F	Material	categories

		A <b>Vernier caliper</b> . Can take internal, external and depth measurements.		
E.	Material	categories		
	mers stics)	Thermoforming – melt when reheated Thermoset – burn when reheated		
Metals		Ferrous – contain iron, rust and can be magnetic Non-ferrous – corrode instead of rusting, no iron		
Timbers (wood)		Hardwoods – from trees that drop leaves in winter, slow growing and expensive  Softwoods – from trees that keep their leaves in winter, fast growing and soft		
Composites (combined materials)		Sheet-based – sheets of material glued together plywood, chipboard. Cheap and easy to manufacture with.  Fibre-based – glass reinforced plastic, carbon fibre. Very strong and light		
Sma mate	irt erials	Materials that change their properties when given a stimulus.  Thermochromic – changes colour in heat  Photochromic – changes colour in light  Shape memory alloy – can return to its original shape when heated		

## Year 10 Engineering Term 1

Smart

materials

What we ar	e learn	ing this ter	m:			
	of haza		dimensions and scale C. materi	al properties [	D. Tools and equipment	
E. Categorie	es of ma	aterials		11	1	
A.	Health	& Safety		В.	Dimensions and scale	
Risk Assessment A risk assessment is the analysis of the risks involved when?				Scale is (Drawing size): (Real life size)  1:2 = the drawing is the size of the real thing.		
Hazard –. Risk – Control measure –				5:1 = the drawing is the size of the real thing.		
Give an exam Ejection haza		an	Give an example of an Entrapment hazard –	1:3=the d thing.	drawing is the size of the real	
Give an example of an Inhalation hazard – Give an example of a Sharp force hazard –		extension	ensions onto this drawing of a dog tag. Use n lines, dimension lines, and radius ments. Work in mm.			
Give an example of Slip, trip and fall hazards – Give an example of a Blunt force hazard –				_	O JKING 2025	
C.	Mate	erial prop	erties			
Strength	A	Ability of a	material to withstand	, t	tension,, bending, and shear.	
Ability to withstand ab		thstand abrasion and wear a	and tear.			
Materials that can withstand impact or a shock.			nat can withstand impact or a	are hard to br	reak or snap are & can absorb	
Malleability	Malleability Being able to easily would make a material easily mallea				sily would make a material easily malleable	
Ductility	V	Materials that can be are ductile				
Elasticity	Δ	Ability to be stretched and then				

Ability to be stretched and then \_

D.	Tools	& machines
		this machine allows you to remove material in an X, Y and Z axis with a milling bit.
>		are used to scribe and circles onto materials.
		Scribes are used to scratch markings on metal while marking out. The tip is, so never use it like a center punch.
		The centre punch is made from mild steel, with the point and tempered, so that it withstands with the material it is marking. It is used to mark the centre of a hole to be drilled
1		A caliper. Can take internal, external and depth measurements.
. м	aterial	categories
olyme		Thermoforming – when reheated Thermoset – when reheated
letals		Non – contain iron, rust and can be magnetic  Non – corrode instead of rusting, no iron
wood)		Hardwoods – from trees thatin winter, slow growing and expensive  Softwoods – from trees that keep their leaves in winter,growing and
		Sheet-based – sheets of material glued together plywood, chipboard. Cheap and easy to manufacture with.  Fibre-based – glass reinforced plastic, carbon fibre. Very strong and light

Materials that change their \_

Shape memory \_\_\_\_\_

Thermochromic – changes colour in \_ Photochromic – changes colour in \_\_\_

stimulus.

when heated

when given a

\_ - can return to its original shape

## Music terms and signs

## **Glossary - Eduqas GCSE Music**

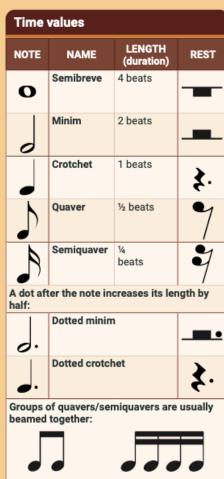


crescendo (cresc.)	diminuendo (dim.)
gradually getting louder	gradually getting quieter

## Tempo

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

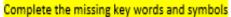
- · Accelerando: gradually getting faster
- Rallentando/ritardando: gradually getting slower
- · A tempo: return to the original speed
- · Ritenuto: in slower time
- · Rubato: rhythms are played in a more free/flexible way ('robbed time').

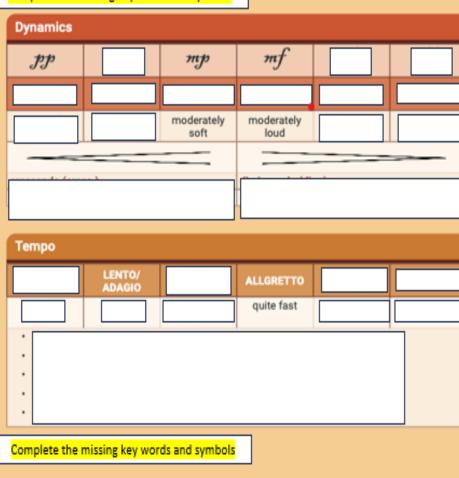




# Music terms and signs

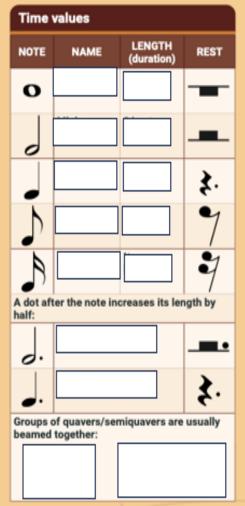
# **Glossary - Eduqas GCSE Music**







Complete the missing key words and symbols



Terms	Terms and signs				
#					
b					
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$\widehat{}$					
sfz					

What we are learning this term:							
A. Key words		В	What are the n	nain life stages?	С	What are the 4 areas of growth and development (PIES)?	
B. What are the main life stages C. What are the 4 areas of growth and		Age Group	Life Stage	Developmental Characteristics and Progress	Divers		
development (F D. How do Humar	PIES)? ns develop physically (P)?	0-2 years	Infancy	Sill dependent on parents but growing quickly and developing physical skills.  Development in the mobi small musc		P = growth patterns and changes in the mobility of the large and small muscles in the body that	
A. Key words for	this Unit	3-8					happen throughout life.
Characteristics	Something that is typical of people at a particular life stage.	years	Childhood	improving thought processes and learning how to develop friendships.	Deve	Intellectual I = how people develop the thinking skills, memory and	
Life stages	Distinct phases of life that each person passes through.	9-18 years	Adolescence	Experiencing puberty, which bring physical and emotional changes.	(I) (		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.		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>	S = describes how people develop
Gross motor development ( <b>G</b> )	Refers to the development of large muscles in the body e.g. Legs	65+	Later	beginning of the aging process.  The aging process continues, which may	Deve	elopment	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 development	Think through and express ideas	0-2			ded, wall	, walk holding onto something, walk unaided, climb	
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 for an item, pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from one had hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from the hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from the hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn pass item from the hold between finger and the			ass item from one hand to other, as 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, catch a ball with one hand, balance along a thin line.  • F = hold a crayon to make circles and lines, thread small beads, copy letters and shapes with a per		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	Boys = voice deepens, muscles and strength increase, erections, facial hair, produce sperm.				pegins, uterus and vagina grow.
Informal relationships	Relationships formed between family members	19-45					ess, full height, women at most
Friendships	Relationships formed with people we meet in the home or in situations such as schools, work or	fertile.  • Later in the life stage people may put on weight, hair turn grey and men may lose hair, wom was slow down		ose hair, women's menstrual cycle			
Formal	clubs	<ul> <li>People may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down.</li> <li>Women go through the menopause – when menstruation ends and they can no longer become pregnant.</li> </ul>				o longer become pregnant.	
Formal relationships	relationships formed with non- family/friends – such as teachers and doctors.	65+			asticity and wrinkles appear, nails		
Intimate relationships	romantic relationships.		hard and brittle, bones weaken, higher risk of contracting infections disease and illness.  • Stamina, reaction time, muscle and senses (hearing, sight, taste) all reduce.			nd illness.	

	Health and	Social Care-	· <u>Component 1</u> : Human Lifespan	Develo	pment. LAA
What we are learning this term:		W/	under life and and O		Mississe the Assess of seconds 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	С	What are the 4 areas of growth and development (PIES)?
development (PIES)?  D. How do Humans develop physically (P)?	0-2 years	Infancy	1.09.033	Phys Deve (P)	sical elopment
A. Key words for this Unit	3-8	Early			
Characteristics	years	Childhood			lectual
Life stages	9-18 years	Adolescence			elopment
Growth	19-45 years	Early Adulthood		Emo Deve	tional elopment
Development	46-65 years	Middle Adulthood		(E)	elopment ©© ©©
Gross motor development ( <b>G</b> )	65+ years	Later Adulthood		- Deve	elopment
Fine motor development <b>(F)</b>	D.		ns develop physically (P)?		A
Language development	0-2	now do numai	is develop physically (1 /:		
Contentment					
Self-image	3-8 				
Self-esteem	9-18				
Informal relationships	19-45				
Friendships	_				
	46-65				
Formal relationships	65+				
Intimate relationships					

#### 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)?

E. How do humans develop intellectually (I)?			Infancy and Early Childhood	Adolescence and adulthood			
<ul> <li>F. How do humans develop emotionally (E)?</li> <li>G. How do humans develop socially (S)?</li> <li>E. How do humans develop intellectually (I)?</li> <li>Infancy At birth brains are already well</li> </ul>		forms with other and their main c	ttachment achment describe the emotional ties an individual s. It starts in the first year of life between infants arer because that person fulfils the infants needs em feel safe and secure.	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 employment and health status.			
<b>~</b>	developed. Infants use all of their senses to learn about the world around them. Infancy is a time of rapid intellectual development. At 3 months infants can remember routines. At 9-12 months infants are developing their memory. At 12 months to 2 years infants understand processes and how things work. Language begins to develop during this stage.		young children, security is mainly the feeling of being safe and loved – it is closely linked with	Security Adolescence may feel insecure because of puberty. Adults may feel insecure about relationships, job security of income. Later in life adults may feel insecure about staying in their own home or going into a care home. Feeling secure helps us cope better with everyday situations.			
			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 is are completely dependent on their carer. As arly childhood they develop more independence get dressed. However, children still need a lot of arer.	Independence Adolescence are dependent on their parents but are beginning to enjoy more independence and freedom to make their own choices. Adults enjoy living independently and controlling their own lifestyle and environment. Later in adulthood people become more dependent on others again.			
	them to talk about the past and anticipate the future.	G.	How do humans develop socially (S)?				
Adolescence	During this time abstract thought is	Life Stage	Types of relationships and social development				
Addicaccince	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.			
4	possible by the end of this life stage. Adolescents may find it difficult to understand the consequences of their actions but they are developing empathy – seeing things from another's point of view.	Early childhood	game; they are not socialising or playing with  Cooperative or social play – from 3 years upw	children enjoy playing next to other children but are absorbed in their own laying with other children.  By years upwards, children start to play with other children; they have developed e and talk 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.		<ul> <li>Increased independence means greater control of decisions about informal relationships.</li> <li>People may be developing emotional and social ties with partners and their own children.</li> <li>Social life often centred on the family but social skills are required to build and maintain formal relationships.</li> </ul>				
Later adulthood	During this life stage people continue to learn and develop intellectually, however, their speed of thinking and memory may decline. This may affect their ability to think through problems and make logical decisions.	Middle adulthood	<ul> <li>Children have often left home, but there are likely to still be strong family relationships.</li> <li>Social circles may expand through travel, spending more time on hobbies or joining new groups.</li> </ul>				
₽		Later adulthood	<ul> <li>Retired by this stage and so may enjoy more social time with family and friends or join new groups.</li> <li>However, later in the life stage people may begin to feel isolated if they struggle to get out or if partners and friends pass away.</li> </ul>				

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

How do humans develop socially (S)? E. How do humans develop intellectually (I)?

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

Infancy

Early childhood

How do humans develop socially (S)? G.

Life Stage

Infancy

Early

Later adulthood

Adolescence

Middle Adulthood

Early childhood

Types of relationships and social development

Adolescence Early and

adulthood Later Middle adulthood adulthood

How do physical factors affect development?

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

To do with person's wealth and income.

What we are learning this term:

H. Key words

possessions

**Economic** 

	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	May cause worry and/or stress. Individuals may develop negative self-esteem. Could lead to feelings of isolation

J. How does lifestyle affect development?

and becoming independent.

wellbeing.

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

Social

**Development** 

**Emotional** security



Physical characteristics or disease may affect

opportunities or confidence in building friendships

#### 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.

May cause difficulty in having opportunities to

socialize with other and build wider relationships.



What we are learning this term:			How do	physical factors affect development?			
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?		Physica Develop Intellect Develop	ewal	Genetic Disorders		Disease and Illness	
H Key words:							
Genetic inheritance		Emotior Develop					
Genetic disorders		Social Develop	ment				
Lifestyle Choices		J.	How does	s lifestyle affect development?			
Appearance		Lifestyle	choices	include; diet, exercise, alcohol, smoking, sex	kual relatio	onships and illegal drugs, appearance.	
Factor				٣٨		C3	
Gender role				ر_ن		υ	
Culture		Our <b>appearance</b> includes: body shape, facial features, hair and nails, personal hygiene and our clothing.  Our appearance can affect the way we view ourselves- self-image					
Role models		Our appe	earance ca	an affect the way we view ourselves- self-ima	ige 		
Social Isolation  Material possessions						لرغ	
Economic							

#### How do social and cultural factors affect What we are learning this term: development How do social and cultural factors affect development? Development can be influenced by the persons culture or 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 Negative affects of a persons development? Positive affects of a persons culture/religion: culture/religion: Feeing discriminated A sense of security 1 In adolescence, young people often argue against by people who do and belonging from with parents because they want more sharing the same not share their independence- negative affect on family religion/culture which leads values and beliefs relationships- can lead to isolation from with others. to low self-image them. Good self-esteem Feeing excluded and 2 In later life, older people might need to through being isolated because their rely on their children for support. This then accepted and valued needs like diet, are not 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 3 Relationships are important because they and goals. provide emotional security, contentment and positive self- esteem. Belonging to a community: Not belonging to a Elderly people rely on state pension to live which is not Brings sense of community: The breakdown of personal relationships belonging essential for · Minimal contact with can have a negative effect on persons emotional development. others-isolation PIES development: Building and maintaining · Anxiety leading to Low self-esteem, loss of confidence. relationships-social depression stress. · Making negative lifestyle development 5 Isolation can happen when individuals do Feeling of security. choices not have the opportunity of regular contact Increases self-image and Feeling less secure with others. They have no one to share self-confidence Difficulty in building their feelings, thoughts and worries with relationships resulting in feeling insecure and anxious. Slow self-image and self-confidence 6 Isolation can happen because they live 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. people being discriminated against because of their gender. 7 People have role models- infants learn by What happens when people face discrimination because of copying others, and adolescence base gender: their identity on their role models. Role

- How do relationships and isolation affect development?
- - How do economic factors affect development
  - Having enough money Not having enough
  - gives individuals and their money causes stress families feeling of content and anxiety. and security
  - Having enough money Not having enough money can mean that means that the whole the family is not about to family is eating healthy. eat well balanced diet, and this has a negative effect on their physical

development

Be more likely to

Be lesson likely to

Not having a phone or

experience ill health

- enough and have to cut down on travel, shopping, bills, therefore it speeds their aging process and lead to health decline. Living in good housing Living in a poor housing
- with cramped and damp with open spaces: Feeling good about conditions: themselves Have low self-esteem Be more likely to stay and self-image
- healthy. Space to take exercise
- Feel safe ad secure Warmth
  - exercise Anxious and stressed.

Material possession like a positive effect on the persons development

- new phone or coat has a
- the newest trainers can have a negative affect in the persons self-image because they might have and self-esteem. They more friends as they look might feel isolated from nicer, high self-image. others.

- They might be excluded from a group They may be refused promotion at work
- They may be expected to carry out a particular role
- They may be paid less.

themselves compared to others and their lifestyle chices0 can be positive or negative.

models can influence how people see

K	How do social and cultural factors affect development	Wh	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 development do relationships and isolation affect development?		
· L	ifestyle choices: diet, appearance	L	How do relationships and isolation affect development?	M	low do economic factors affect development
		1			
					-
		2			
	munity refers to: local area where people live, school,				
	ous group or hobby clubs. They have common values goals.	3			
		4			
		5			
Trad	itionally, men and women had distinctive responsibilities	6			
and expectations which for their gender called <b>gender</b> roles. However, nowadays UK equality legislation stops people being discriminated against because of their gender.					
heot	be being discriminated against because or 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

Factors

What are life events?

O. How do people deal with life events?P. How is dealing with life events

supported?			support they have, their disposition (their mood, attitude and general nature), their self-esteem, their resilience (how quickly they recover).				
N. V	Vhat are life events?	Adamtina					
Life Event	unexpected events that can	Adapting	<ul> <li>Adapt – to adjust to new conditions or circumstances.</li> <li>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.</li> </ul>				
	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 Events	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?				
Unexpect	aged 11.  ed Unexpected life events are	Types of Support	How this helps individuals deal with life events				
Life Event	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	death of a loved one).  Physical events are events that	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				
Events	make changes to your body, physical health and mobility.		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>				
Relationsl Changes	Relationship changes could be new relationships such as the		<ul> <li>Transport – an individual may need support with transport if they have mobility problems i.e. a car could be adapted to support a person who has had an accident and can no longer walk.</li> </ul>				
Onlanges	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.

Factors that may affect how people cope with life events: age, other life events happening at the same time, the

What we are learning this term:		0.	How do people deal with life events?	
N. What are life events?     O. How do people deal with life events?		Individual		
P. How is dealing with life events supported?		Factors		
N.	What a	re life events?	Adapting	
Life Ev	vents			
			Resilience	
Expec Events	Expected Life Events		Time	
			P.	How is dealing with life events supported?
Unexpected			Types of Support	How this helps individuals deal with life events
Life Ev	vents		Emotional Support	
Physic	cal		Information and Advice	
Events	S			
			Practical Help	
Relation	onship ges			
			Informal Support	
			Professional Support	
Life Circun	nstance			
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 \_\_\_\_.



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