# 100% book - Year 10 Mainstream

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



## Term 1

Swindon	Academy 2023-24
Name:	
Tutor Group:	
Tutor & Room:	

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

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





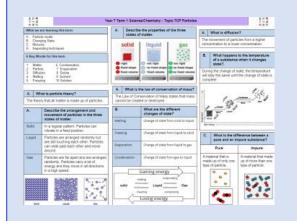






## How to use your 100% book of Knowledge Organisers and Quizzable Organisers

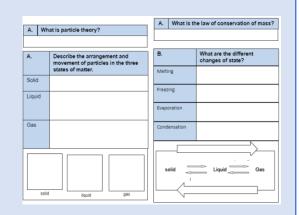
## **Knowledge Organisers**



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

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

## **Quizzable Knowledge Organisers**



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

Use them to test yourself or get someone else to test you, until you are confident you can recall the information from memory.

#### **Top Tip**

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

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

- 1. Complete all prep work set in your subject prep book.
- 2. Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
- 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 particles.  A What is particle theory? The terry that if matter is made up of particles.  A What is particle theory? The terry that if matter is made up of particles.  A What is the taw of conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be created or distipated.  The Law of Conservation of Mass states that mass cannot be conserved or distipated.  The Law of Conservation of Mass states that mass cannot be conserved or distipated.  The Law of Conservation of Mass states that mass cannot be conserved or distipated.  The Law of Conservation of Mass states that mass cann	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 made of particles  Solid = regular pattern  Particles vibrate in first position  Liquid = particles are arranged randomly but  ore still southing each other and  make aland.  Gas = Particles are far apart and are  arranged randomly. Perticles corry and are  arranged randomly. Perticles corry and are  arranged randomly. Perticles corry 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 particles yibrate in fixed position  Solid = regular pattern particles yibrate in fixed position  Solid = regular pattern particles yibrate 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 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?  A What is particle theory?  A What is the law of conservation of mass?  A Precipe of particles in the three states of matter.  B. What is the law of conservation of mass?  Free g. A France and A France	Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident.  Particle theory = all matter is made of particles  Solid = regular patter  porticles vibrate in fired position  Liquid = particles fre arranged randomly but  are still touching each other and  mare around  Gas = Particles are for apart  arranged randomly Particles carry = lat of energy

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

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

Poem	Context	Events in the poem	Message	Form/ structure
The Prelude- William Wordsworh	Born in in 1770, Wordsworth was orphaned at 13 and sent to a grammar school.  Whilst he was there, he was influenced by the countryside surrounding him.  The poem you study is just a section of an epic poem and was originally going to be called 'The Recluse'.  The poem is mostly autobiographical.	An autobiographical account of Wordsworth as a boy.  The poem focusses on a boy stealing a boat and rowing it into the middle of a lake.  Whilst there he feels as though nature is judging him and feels guilt for his theft.  He returns the boat, but the memory stays with him	Nature has the power to inspire and destroy and so should be respected. Nature can be overwhelming and can make us feel 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 views.	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 Percey 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 talks about the painting and about the Duchess. He starts to 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 probably had the Duchess's killed: 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 questions how oppressive society is for women. He suggests strict rules should not be forced on others and there should be equality of power in society. 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 being too arrogant can lead to the abuse of power. He warns us that pride and jealousy can take over all other emotions.	Dramatic monologue- reflective of the Duke's arrogance. The regular meter and rhyme scheme (rhyming couplets) demonstrate the Duke's control over the narrative and how he has carefully constructed his argument.
Ozymandias- Percy Shelley	Shelley was considered to be a radical due to his dislike of the church and monarchy The poem is inspired by an Egyptian pharaoh, Ramesses II. Rameses II led armies into many battles and built a huge empire. However, to do this he used slave labour and allowed his people to struggle whilst he spent a lot of money 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, in the poem, his empire is gone and only sand and ruins remain.	<ul> <li>Shelley wanted to communicate how all power is transient – even powerful individuals are no match against nature and time.</li> <li>Shelley warns tyrants that they are vulnerable; they should not be arrogant, but instead be humble and accept that their power is ephemeral.</li> <li>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 lasts longer than the power of kings – particularly tyrants.</li> </ul>	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  The rigid structure is symbolic of Ozymandias' oppressive rulership.
London- William Blake	Born in London in 1757, Blake was a radical and was against 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 River Thames seems to be controlled 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, and feels that the Church is to blame.      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 sound brings misery to their tearful new-born children. The speaker also imagines this sound plaguing what the speaker calls "the Marriage hearse"—an imagined vehicle that carries love and death together.	<ul> <li>Blake wanted to highlight the desperate suffering of the poor in 19<sup>th</sup> century Britain.</li> <li>Blake believed people should be supported and cared for by institutions of power such as the church, the government and the education system.</li> <li>Blake was appalled that people endured such difficulties and wanted them to break free from the oppressive control.</li> <li>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.</li> </ul>	Blake uses regular stanzas and a regular rhyme scheme which reflects the repetitiveness of the pain and suffering that the people of London face. The controlled structure is also symbolic of the control that the church and monarchy have over society.

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

Poem	Context Notes	Events in the poem	Message	Form/ structure
The Prelude- William Wordsworh	Born in in, Wordsworth was	An account of      The poem focusses on	Nature has the power to     Nature can be	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
2 35	Whilst he was there, he was influenced by	Whilst there he feels	Imagination and memories are	power of nature over us.
	The poem you study is	• He		
	The poem is mostly			
P B	Browning was inspired by      Written in, it is inspired	The speaker of the poem (the Duke) shows	Browning questions	Dramatic monologue-
	by	The Duke talks about	Browning warns us that	The regular meter and rhyme scheme (rhyming couplets) demonstrate
•		As his monologue continues, the reader realises that	Furthermore, Browning shows how	
		Having made this admission, the Duke		
:у	Shelley was considered to be	The poem imagines	Shelley wanted to	Sonnet-
	The poem is inspired by  He	• In the poem,	Shelley warns tyrants that	The use of the sonnet form is reflective of
	ne	• However	The poem offers	The rigid structure is symbolic of
London- William Blake	Born in London in, Blake was	Walking through through	Blake wanted to	Blake uses regular stanzas and a regular rhyme scheme which reflects
	He believed	The speaker sees	Blake believed	
	During this era,	He hears	Blake was	The controlled structure is also symbolic of
		Thinking of		
		He also hears	It could be said to be	





## T1 Y10 P1.3 – Mainstream Higher Energy Resources

### **Energy resources**

We use energy resources for electricity generation, transport and heating

**Non-renewable** – ones that are being used faster than they can be replaced and will run out.

Example	+	-
Coal, oil, natural gas	Reliable method of generating electricity	Release CO <sub>2</sub> which contributes to global warming
nuclear	No CO <sub>2</sub> released	Produces radioactive nuclear waste

#### Renewable resources:

Ones that will not run out, they are being replenished as they are used

Example	+	-
Solar	No CO <sub>2</sub> released	Don't work at night or well on cloudy days
wind	No CO <sub>2</sub> released	Doesn't work if it isn't windy
Hydro	No CO <sub>2</sub> released	Damage to habitats
Geothermal	No CO <sub>2</sub> released	Only found in specific places
waves	No CO <sub>2</sub> released	Damage to habitats
Biofuel	Carbon neutral	Uses crop land to grow new forests

## **Vocabulary:** generation

#### NOW QUIZ YOURSELF

- 1. Give the three main uses for energy resources
- 2. What is a non-renewable energy resource?
- 3. Give 2 examples of non-renewable energy resources
- 4. Give two disadvantages of using coal and oil
- 5. Give one advantage to using nuclear resources to generate electricity.
- 6. What is a renewable energy resource?
- 7. Give 4 examples of renewable resources
- 8. Give 2 advantages of using renewable resources to generate electricity
- 9. Give two disadvantages of using renewable resources to generate electricity





## T1 Y10 B2.6 Mainstream Higher – Preventing and treating diseases Vocabulary: Clinical Placebo

### **Antibiotics & Painkillers**

Antibiotics = kill bacteria (specific antibiotic for specific bacteria)

THEY DO NOT KILL VIRUSES

e.g. penicillin

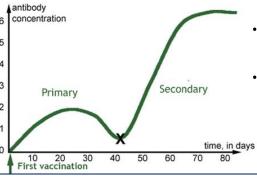
Antibiotics cannot kill viruses because viruses live inside cells

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

e.g. paracetamol

#### **Vaccination**

- Introducing small quantities of dead or inactive forms of pathogen into the body.
- Stimulates WBCs to produce antibodies.



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

- 1. What is the only type of pathogen antibiotics can kill?
- 2. What do painkillers do?
- 3. Why can antibiotics NOT kill viruses?
- 4. What is in a vaccination?
- 5. Why do the white blood cells respond more quickly the second time they come into contact with a pathogen?
- 6. How does vaccination prevent us from becoming infected with the same pathogen in the future?

## **Development of Drugs**

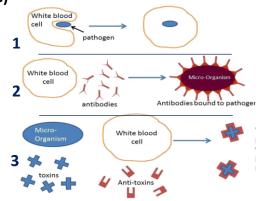
Testing for:

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

Stage		Description
1	pre- clinical	Tested on cells and tissues. Side effects? Efficacy?
2		Tested on animals. Side effects?
3	clinical	Clinical trials = tested on humans. 1st health volunteers, 2nd patients with the illness. Dosage gradually increased to optimum.

### White Blood Cells (WBCs)

- Phagocytosis engulfing the pathogen
- Producing antibodies – specific to the antigen
- Producing antitoxins to neutralise toxins



- 1. What are clinical trials?
- 2. What are the three things we test for before a drug can be used by the public?
- 3. What is the first stage of drug testing?
- 4. What are drugs tested on in preclinical trials?
- 5. What is phagocytosis?
- 6. What do antibodies attach to?
- 7. How to antitoxins make us feel better?





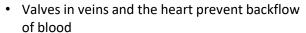
## T1 Y10 B2.7 Mainstream Higher - Non-communicable

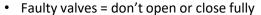
#### **Coronary Heart Disease (CHD)**



- 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

### **Faulty Valves**





• Can be replaced with man-made valves or transplants from donors





healthy



#### **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.

#### 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>	

#### **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.

#### 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.



## T1 Y10 B2.7 Mainstream Higher - Non-communicable

- 1. What do coronary arteries do?
- 2. What can block coronary arteries?
- 3. What will happen to the heart if they become blocked?
- 1. What is the job of a valve?
- 2. How can faulty valves be treated?

- Give and example of when cancer can be triggered by a virus.
- 2. Give an example of an immune reaction that can be triggered by a pathogen

- 1. How do stents treat CHD?
- 2. How do statins treat CHD?
- Give an advantage of using stents rather than statins to treat CHD
- 1. Name a disease linked with obesity

- 1. What is a benign tumour?
- 2. Why do benign tumours not spread?
- 3. How can malignant tumours spread?



# # # # <del>\*</del>

## 11 Y10 P2.4 Mainstream Higher – Electrical circuits Vocabulary: Potential difference, Thermister

#### Current, resistance and potential difference

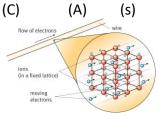
Electrical current is the flow of electrical charge.

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.

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



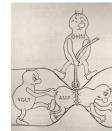
**Ohms Law** 

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

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 ( $\Omega$ )

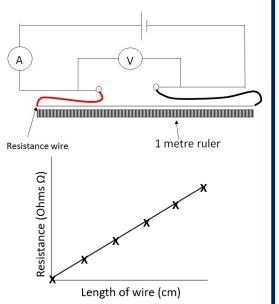


#### Hypothesis 'the length of the wire affects resistance'

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

- 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)

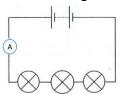


The relationship is directly proportional

#### Series and parallel circuits

#### **Series circuits:**

A series circuit is one single loop

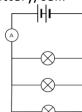


In a series circuit:

- 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 P2.4 Mainstream Higher – Electrical circuits

#### 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

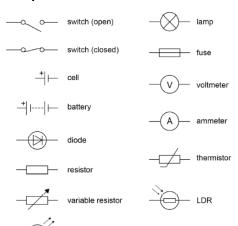
- 1. What is a series circuit?
- 2. In a series circuit, the current is......
- 3. How do you find total resistance in a series circuit?
- 4. The potential difference is shared equally among components as long as.......
- 5. What is a parallel circuit?
- 6. What is true about potential difference across 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 P2.4 Mainstream Higher – Electrical circuits

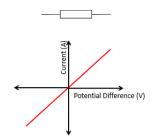
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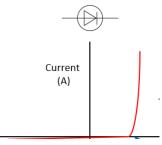
#### **Components**



- 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 Ω 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



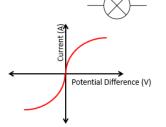


A fixed (ohmic) resistor
has fixed resistance
current is directly
proportional to potential

A diode very high
resistance in one
direction.

difference
Resistance remains
constant (at constant temp)

Only when the potential difference is positive does current flow



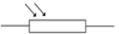
A filament bulb contains a thin wire that glows as current flows.
As the pd increases, the current

As the pd increases, the curr initially increases.

However, at higher pd, the wire gets hot

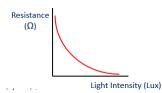
The ions in the wire move faster and collide with the moving charges
Resistance increases, so current stops increasing

#### **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.



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## 11 Y10 P2.4 Mainstream Higher – Electrical circuits

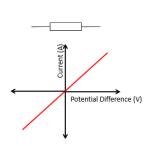
#### Components

Componer	
Symbol	Name
	Cell
	fuse
—(A)—	
	Voltmeter

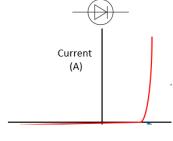
- 1. Complete the table opposite
- 2. Which component has a resistance that decreases as light intensity increases?
- 3. Which component only allows current to flow one way?
- 4. What is a fixed resistor?

## Current, potential difference and resistance for different components

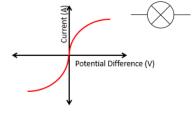
1. What readings would you need to take from a circuit to calculate resistance?



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



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## 11 Y10 P2.5 Mainstream Higher—Electricity in the home

#### Domestic use of electricity

There are two types of electrical supply – direct (DC) and alternating current (AC)

#### AC

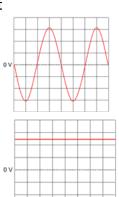
The pd changes direction and magnitude, giving alternating current

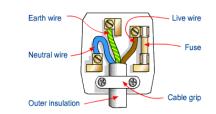
The number of times the change of direction happens per second is the frequency.

UK mains is AC - **230V** Frequency of **50 Hz** 

#### DC

A direct pd produces current that flows in one direction **Batteries** supply DC





Electrical appliances are connected using 3 core cable

- Brown live wire, with pd of 230V
- Blue neutral, OV, completes the circuit
- Yellow and green Earth wire, is at OV unless there is a fault, when it will become live

#### Appliances in the home and power

Power is measured in Watts (W) or kW Power can be calculated by using:

Power = Voltage x current P = IV

Power = current<sup>2</sup> x resistance  $P = I^2 R$ 

#### Appliances transfer energy.

Energy is measured in Joules (J) or kJ The energy transferred can be calculated by using:

Energy = charge flow x potential difference E = Q V

Energy = power x time E = p t

#### For example

A kettle transfers energy from the thermal store of the filament in the kettle to the thermal store of the water inside.

Some energy is transferred to the thermal store of the surroundings.

#### **The National Grid**

The National Grid is a system of cables and transformers connecting power stations to homes and businesses



The National Grid uses very high pd and low current.

High current causes heating in the wires and would result in large energy losses.

Step up transformers increase the pd from the power station (to around 400000V) so that low current can be used to transmit power.

This means the wires don't get hot, so less energy is lost.

Near homes and businesses, step down transformers reduce the pd to 230V for safety.



## 11 Y10 P2.5 Mainstream Higher – Electricity in the home

## Domestic use of electricity

- 1. What are the two types of current?
- 2. What type of power supply produces DC current?
- 3. What are the two differences between AC and DC current?
- 4. What is the pd of the UK mains supply?
- 5. What is the frequency of UK mains supply?
- 6. What colour is the live wire in UK plugs?
- 7. What is the purpose of the blue wire in UK plugs?
- 8. When does the yellow and green wire carry a current?

#### **The National Grid**

- 1. What is the National Grid?
- 2. What sort of pd does the National Grid use to transmit electrical power?
- 3. What is used to increase the pd from the power station?
- 4. What is used to reduce the pd near homes and businesses?
- 5. Why is such a high pd used?

#### Appliances in the home and power

- 1. What is the equation linking current, potential difference and power?
- 2. What is the equation linking current, resistance and power?
- 3. What two factors affect how much energy an appliance transfers?
- 4. What is the equation linking energy, power and time?
- 5. What are the units for power?
- 6. What is the equation linking charge, energy and potential difference?
- 7. What are the units for energy?



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



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

2. 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
lactors	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 needs.	
Water conservation	Recycling grey water. ½ flush toilets. Rainwater harvesting on roofs. Permeable pavements- filters pollutants.	
Energy conservation	Energy efficient appliances. Energy saving (south facing windows). Use of renewable energy sources.	
Waste recycling	Recycling boxes in houses. Recycling facilities nearby. Encourage websites like 'Freecycle'.	
Creating green space	Maintain green spaces around towns- Cools area, encourage exercise, happy.	

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



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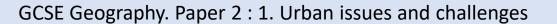
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Social	
deprivation	
Dereliction	
Urban	
Greening	
Urban	
sprawl	
Integrated	
Transport	
System	
Brownfield	
Greenfield	
Commuter	
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2. Factors affecting urbanisation		
Rural- Urban migration		
Push factors		
Pull factors		
Natural Increase		

Increase			
3. Me	gacities		
Megacity			
How many?			Ī
Where?			

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







## 7. Distribution of population and major cities in the UK

CC maillian

Population	oo million.
	Distribution is very uneven.
	82% live in urban areas.
	Upland areas are sparsely populated.
Cities	Most in lowland areas and on coasts.
	London is the biggest city and the
	capital. It has 10% of the population.
	Cities reflect our industrial past (near
	raw materials e.g. Leeds near coal).
	Counter-urbanisation is a recent trend.
	·

## 8. Location and importance of Bristol

2.112.121		
Location	South west of the UK, on Bristol	
	Channel. Near to junction of M4 & M5.	
Importance	Largest city in the southwest.	
within the	8 <sup>th</sup> most popular city for foreign tourists.	
UK	2 universities and 2 cathedrals.	
Importance to wider world	Largest concentration of silicon chip	
	manufacturing outside of California.	
	International airport (links to Europe).	
	Many TNCs located there (AirBus, BMW)	

# 9. Impacts of migration on the growth and character of the city

city	
National	1851 - 1891 population doubled as
migration	people arrived looking for work.
International migration	Now,international migration accounts for half of its growth. 50 countries.  Many from Europe (Poland, Spain).
Impact on	Many cultural opportunities. Afro-Caribbean- strong community

### 10. Urban change in Bristol

- · Population is growing rapidly.
- · Population is more ethnically diverse.
- More under 16-year olds than of pensionable age.
- Electrification of railway to London (<70 minutes).
- · Become more accessible (road, rail, air).

# 11. Opportunities created by urban change

Cultural mix	50 countries represented (food, art). St Paul's Carnival (attracts 40,000).
Recreation and entertainment	Underground music scene -Colston Hall. Entertainment (The Bristol Old Vic). 2 football teams (City, Rovers). Shopping Cribbs Causeway, Cabot Circus.
Employment	Highly tech. industries = jobs. 50 silicon businesses. Many TNCs. £100 million improved broadband.
Integrated transport system	Links different types of public transport Reduces congestion in the city.  7 % people walking and cycling (57%).
Urban greening	> 90% live within 350m of park/water. 300 parks. 1/3 Bristol is open space. 2015 European Green Capital status.

# 12.An example of an urban regeneration project

Example	Why did it need regeneration?
Temple Quarter, Bristol	Bristol surrounded by a green belt. Brownfield site- rundown, ugly. By Bristol Temple Meads Station- poor impression for new visitors. Previously an industrial area.

#### 13. Challenges created by urban change Some areas face social deprivation. 1/3 of people in Filwood are in very-Urban low income households. deprivation Problems of crime, drug use, low quality housing, lack of transport. Inequality in Filwood- 50% in council housing. Stoke Bishop- millionaires (large villas) housing Filwood- 36% get top GCSE grades. Inequality in Stoke Bishop- 94%. education Filwood- Life expectancy 78 years. Inequality in Stoke Bishop- 83 years. health Filwood- 1/3 16-24-year olds. Employment Stoke Bishop- Just 3%. Industrial buildings derelict (inner-city). Dereliction Stokes Croft (many squatters). Building on 2006-13 94% housing on brownfield.

Plan for 30,000 homes on brownfield.

Temple Meads built on brownfield.

>1/2 million tonnes of waste/year.

(23% lower per head than UK average)

7 recycling by 50%. Teach it in schools.

Greenbelt to prevent merge with Bath
City extended to NW (Bradley Stoke).

Led to destruction of greenfield sites.

X Arena still not built

Yate- Commuter settlement.

What are the main features?	Successful?
Enterprise Zone e.g. low rents.     Improve access e.g. ITS.     New bridge across River Avon	✓ 4,000 new jobs by 2020 (17,000 by 2037) ✓ Attracts tourists.
(access to planned Bristol Arena).     Maintain historical features,	✓ Redeveloped brownfield site

brown and

greenfield

Waste

disposal

Urban sprawl

cobbled streets- gives character

• Brunel's Engine Shed £1.7mill.



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



	tribution of population and ijor cities in the UK	10. Urb	an change in Bristol		13.Chal char		ated by urban
Population					Urban deprivation		
		11. C	pportunities created by		Inequality in housing		
Cities		Cultural m	rban change		Inequality in education		
	cation and importance of	Recreation			Inequality in health		
Location	Stol	Employme			Employment		
Importance within the UK		Integrated transport system			Dereliction  Building on		
Importance to wider world		Urban greening			brown and greenfield Waste		
9. lmj	pacts of migration on the		n example of an urban		disposal Urban sprawl		
	wth and character of the	Example	generation project Why did it need regeneration?	W	/hat are the mai	n features?	Successful?
National migration Internationa migration Impact on character		Temple Quarter, Bristol					Jacobsan



Background:

## Year 10 OCR A Term 1 – Landscapes of the UK



# The physical landscapes of the UK have distinctive characteristics. The characteristics are caused by changes in Geology, Climate and Land Use (A).

- There are a number of geomorphic processes which create distinctive landscapes (B, C, D)
- Rivers create a range of landforms which change with distance from their source within a river basin (E).
- 4. There are a range of landforms within the coastal landscape (G, H, I & J)
- Landscapes are dynamic and differ depending on their geology, climate and human activity (F & K)

		57.
A.	UK Dis	stinctive Landscapes
Mountainous / Upland Area		<ul> <li>Over 600m in height.</li> <li>Unevenly distributed across the UK,</li> <li>Located in Northern Ireland, Scotland &amp; Wales.</li> <li>Characteristics are mountainous, steep, rocky with low population.</li> <li>Geology = Igneous &amp; Metamorphic Rock</li> <li>Climate is cool and wet.</li> </ul>
Lowlan Area	d	<ul> <li>Between 0 and 200m above sea level.</li> <li>Evenly distributed across Southeast England.</li> <li>Characteristics are hills, wide rivers, flat land and farmland with high population.</li> <li>Geology = fertile soil over Sedimentary rock.</li> <li>Climate is mild with lower rainfall.</li> </ul>
Glaciat Areas	ed	<ul> <li>Glaciers are slow moving flows of ice which carve large valleys into mountains.</li> <li>Unevenly distributed across UK</li> <li>Located in Northern Scotland./ Lake district.</li> <li>Characteristics are mountainous areas with U shaped valleys used for sheep farming &amp; tourism.</li> <li>Geology = Igneous &amp; Metamorphic</li> </ul>

Rock

Climate is cool and wet.

	B.	Geom	norphic Processes			
	Geomoi	rphic me	eans a process that changes the landscape.			
ı	Weathering		A Weathering is the breakdown of material in place (without being transported).			
	Mechanical weathering		Physical actions of rain, frost and wind that weaken the rock such as Onion Skin weathering and freeze thaw.			
	Chemical Weathering		Minerals in rocks reacting in different ways making them weaker such as Carbonic Acid dissolving limestone.			
	Biological		Plants and animals breaking rocks apart, such as roots growing in cracks or rabbits burrowing through soil.			
	Mass Movement		The movement of soil and sediment down a slope by gravity.  Sliding happens when a section of soil or rock moves suddenly down a slope.  Slumping happens when a section of soil or rock moves gradually down a slope.			
	C.	Erosio	n			

C.	Erosio	on
Attrition		The 'knocking' of sediment against each other to become more rounded.
Hydrau action	lic	The sheer force of the water and air in cracks breaking down the riverbanks and bed.
Solution		The dissolving of minerals.
Abrasio	on	The action of sediment scraping against the bed and bank of the river (like sandpaper.

I				
	D.	Rivers	s - Transportation	
	Traction	า	Large rocks and boulders that are too heavy to pick up are ROLLED along the river bed.	
l	Saltation		Medium size rocks are BOUNCED along the river bed.	
	Suspen	sion	Small particles of sediment are CARRIED along by the river.	
١	Solution	า	Minerals from the rock are DISSOLVED into the water.	

#### E. Rivers - Landforms

#### V Shaped Valley (Upper Course)

- When it rains, the water soaks into the sides of the valley making them unstable.
- Vertical erosion makes the valley sides even more unstable.
- They collapse into the river and are transported away.
- · This leaves behind a v-shaped valley.

#### Waterfall (Upper Course)

- · Occur when hard rock overlies soft rock.
  - Soft rock erodes faster, **undercutting** the hard rock leaving a **ledge**.
- Eventually the unsupported ledge collapses and falls into the plunge pool.
- The process repeats and the waterfall retreats upstream, leaving behind a Gorge.

#### Meander (Middle / Lower Course)

- A meander is a bend in a river.
- Water flows faster around the outside of the bend eroding the riverbank and creating a River Cliff.
- Water flows slower around the inside of the bend, depositing sediment and creating a slip off slope.
- Meanders constantly change the floodplain making it flat.

#### Oxbow Lake (Middle / Lower Course)

- Form when the neck of a meander has been cut through by erosion.
- Water takes the quickest route.
- Deposition occurs sealing off the old meander,
- Over time sediment builds up completely cutting the Oxbow Lake off from the river.

#### Levee (Middle / Lower Course)

- Levees are made of large material which cannot travel as far.
- When a river floods, it slows down away from the channel. The larger material is deposited first either side of the river.
- When the flood water drains away, the large pieces of sediment are left behind.
- These form raised embankments either side of the river called levees.



## Year 10 OCR A Term 1 – Landscapes of the UK

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		Minerals in rocks reacting in different ways making them weaker such as Carbonic Acid dissolving limestone.
		Plants and animals breaking rocks apart, such as roots growing in cracks or rabbits burrowing through soil.
		The movement of soil and sediment down a slope by gravity.  Sliding happens when a section of soil or rock moves suddenly down a slope.  Slumping happens when a section of soil or rock moves gradually down a slope.
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		T. Company							
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	•	A meander is a							
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#### G. | Coast - Landforms

#### Headland

An area of resistant rock that sticks out into the sea.

#### <u>Bay</u>

- An inlet along the coast where rock has been eroded away <u>Concordant coasts</u>
- A stretch of coastline that is made of the same rock type.

#### **Discordant Coasts**

 A stretch of coastline that is made of different rock types, forming headlands and bays.

#### J. | Coasts - Depositional Landforms

Deposition is the dropping of sediment due to reduction in energy.

#### **Beaches**

- Beaches are formed by deposition. The sea loses energy due to friction with the seabed slowing down the wave.
- This causes the sea to drop sediment which forms a beach along the coastline.
- It can also be formed in sheltered bays where the land stops the wind and slows the waves down.
- Longshore drift moves sediment along a beach.

#### SPIT

- A spit is a stretch of beach that projects out to sea.
- Longshore drift moves material along the coastline.
- A spit forms when the material is deposited due to change in direction of the coast.
- As the spit grows it will develop a hook if there is a secondary wind direction.
- Salt marshes form in the sheltered area behind the spit.

#### F. Case Study - River Wye

#### Human Influenc e

#### **Craig Goch Dam**

- Provides flood protection downstream by regulating flow
- Is a reservoir (it stores water for drinking)
- · Made of impermeable rock.
- Some people think it is an eyesore.

#### Flood Warning

 Soft engineering to alert people when flooding is likely.

#### River Straightening

- River Lugg, a tributary to the Wye near Hereford was illegally straightened in 2020.
- River straightening speeds up flow and reducing flooding where it is straightened.
- It can cause flooding downstream and destroys habitats.

#### Floodplain Zoning

- · Land use on the lower course is restricted.
- Building houses on the floodplain is prohibited, as they would be damaged by flooding.
- Farming, sports fields and car parks are allowed on the floodplain around towns such as Hereford.

#### **Industry**

Industry grew near the River Wye as it provides raw materials (Iron and Stone) and was used for transport

#### Agriculture

 The lower course is used for farming because it cannot be built on and is flat, fertile land.

#### **Tourism**

 Tourists use the river for walking, canoeing, rock climbing and visit attractions such as Tintern Abbey.

### H. Coasts - Erosional Landforms

As headlands erode they form a sequence of distinctive landforms.

#### Crack

 The top of the headland is weathered, exposing an area of weakness that turns into a crack.

#### Cave

 Abrasion and hydraulic action erode the crack making it wider and turning it into a cave.

#### **Arch**

Eventually the cave erodes through to the other side of the headland forming an **arch**.

#### **Stack**

 The bottom of the arch is eroded making it wider, and top of the arch is weathered making it weaker. Eventually the arch will collapse leaving behind a pillar of rock called a stack.

#### Stump

The base of the stack is eroded by waves and collapses leaving a **stump**.

#### I. Coasts - Transport

Longshore drift is a process of transportation that moves eroded material along the coastline.

- The prevailing wind makes waves approach the coast at an angle.
- 2. Swash carries sediment up the beach at an angle.
- 3. Backwash carries sediment straight down the beach with gravity at right angles to the beach.
- This creates a zig-zag movement of sediment along the beach.

K.	Case Study - Holderness Coast
Geology	Made of hard rock (Chalk) to the North and weak rock to the south (Boulder Clay). Has one of Europe's fastest eroding coastlines at 2m / year.
Lluman	Hard Engineering

#### Human Influences

#### **Hard Engineering**

- Groynes act as barriers to stop longshore drift.
- Gabions stabilise the base of cliffs stopping landslips.
- Sea walls reflect wave energy back out to sea.

#### Soft Engineering

- Beach nourishment is where sand is pumped back onto the beach.
- Beach reprofiling is the reshaping of a steep beach, usually after a storm event.
- Managed retreat means deciding that some areas cannot be protected and are left to be flooded by the sea.

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Background	: G. Coast - Landforms	J.

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	Human Influences	Hard Engineering  act as barriers to stop longshore drift.  stabilise the base of cliffs stopping landslips.  reflect wave energy back out to sea.  Soft Engineering - Beach nourishment is where sand is pumped Beach reprofiling is the  - Managed retreat means deciding that some areas					
		·					

F.	Case Study - River Wye
Human	Craig Goch Dam
nfluenc	Providesdownstream by regulating
•	Is a rer (it stores water for drinking)
	Made of
	Some people think
	Flood Warning
	Soft engineering to alert people when flooding is
	ly.
	River Straightening River Lugg, a tributary to the near
	H was illegally s in 2020.
	River straighteningflow and reducing
	fl where it is straightened.
	It can cause flooding do and destroys
	Floodplain Zoning
	<ul> <li>Land use on the lower course is restricted.</li> </ul>
	on the floodplain is prohibited, as
	they would be damaged byg.
	are allowed on the floodplain around towns such as Hereford.
	Industry
	Iy grew near the River Wye as it provides
	(Iron and Stone) and was used
	for transport
	<u>Agriculture</u>
	<ul> <li>The lower course is used for fg because it</li> </ul>
	cannot be built on and is
	<u>Tourism</u>
	Tourists use the river for
	w and visit attractions
	such as

		SPIT							
Н.	Coasts - Erosional Landforms								
	As headlands erode they form a sequence of distinctive								
Crack	landforms.								
	he top of the headland is weathered, exposing an area of	_							
W	eakness that turns into a	• A							
<u>Cave</u>		• ¨							
• -	erode the crack making it wider and	tl							
	rning it into a cave.								
	ventually thee erodes through to the other side of	ŀ							
th	e forming an <b>arch</b> .	Geol							
Stack									
	neis eroded making itr, and top								
	the arch is weathered making itr. Eventually the								
	ch will c leaving behind a								
Stum • Th	pene base of the stack is eroded by and collapses	Hum							
	aving a <b>stump</b> .	Influe							
10	aving a <b>stamp</b> .								
<u></u> .	Coasts - Transport								
	shore drift is a process of transportation that moves eroded								
mate	rial along the coastline.								
1.	The prevailing wind makes waves								
2. Swash carries sediment .									
3.	Backwash carries sediment								
4.	4. This creates a of								

sediment along the beach.





Keywords		What we are	What we are learning in this unit		A.	A. 6 Articles of Faith		
Tawhid	The belief in Islam that there is only one God who	A. 6 Articles B. 5 Roots of	of Faith f Usul Ad-Din		Article of fa	ith	What is it?	
	created everything		C. Sunnah and Hadith D. Risalah E. Torah, Psalms and Gospels			one God	Allah is the creator and sustainer of life. There is no God but Allah	
Omnipotent	God is all powerful and "has power over everything"	F. Nature of G. Qu'ran	<ul><li>F. Nature of Allah</li><li>G. Qu'ran</li></ul>			Angels	Angels do the work of Allah and do not have free will like humans. They obey Allah	
Immanent	God is active in the world and involved in its' creation.	I. Angels J. Al Qadir K. Day of Ju	dgement, Paradise and I	Hell	3: Belief in	God's revealed books	The Torah, the Psalms, the Gospels, the Scrolls of Abraham and the Qur'an.	
Transcendent God is outside of time at space. God cannot age die or be located in one			s of Usul Ad-Din  Jsul ad-Din are central to the	e Shi'a Muslim faith.	4: Belief in	he messengers of God	Prophets and messengers are chosen by Allah to deliver His message to humankind	
	place.	Root	What is it?	Quote	5: Belief in	he Day of Judgement	There will be a day when all people stand in front of Allah and are sent to Heaven or Hell	
Beneficent	Allah is compassionate, caring and good	1: Tawhid	The belief in the oneness of Allah	"He is God the One, God the eternal" Surah 112	6: Belief in	ore-destination	Allah knows everything. Everything is ordered by Allah –	
Sunnah	The traditions and practices of the Prophet						nothing is random or by chance	
	Muhammad	2: Risalah Belief in		"We sent	C. Sunnah and Hadith			
Qur'an	The Islamic sacred book		prophethood: the chain of messengers	every				
Hadith	A collection of traditions and sayings of the Prophet		from Adam to Muhammad	community" Surah 16	Sunnah	<ul> <li>The practices, customs and traditions of Prophet Muhammad</li> <li>They give an example for Muslims to follow</li> <li>The Sunnah and Hadith are sources of Wisdom and authority alongside the Qur'an</li> </ul>		
	Muhammad	3: Adalat	Allah is just (fair) and will bring Divine	"I advise you to being <mark>just</mark>				
6 Articles of Faith	6 basic beliefs that shape the Islamic way of life		Justice	towards both friend and foe"				
5 Roots of Usul	5 rules which explain how			Imam Ali	Hadith		dith helps a Muslim to learn ad explained the teachings	
Ad-Din	Muslims should act in daily life	4: Imamah	A term for God-given leadership	"obey God and the Messenger, and those in	from the Qur'an  • The Hadith makes the Qur'an e.		n .	
Akhirah	Belief in the afterlife			authority among		understand	understand	
Al Qadr	Supremacy of God's will and The belief in predestination which is slightly different for Sunni and Shi'a Muslims	5: Mi'ad	The day of judgement and resurrection	"His is the judgement; and to Hjm you shall be returned"	What does the Sunnah tell Muslims?	It provides a g	overs many areas of life uideline for Muslim life nah for everything	





Keywords		What we are learning in this unit			A.	6 Articles of Faith	
Tawhid		A. 6 Articles B. 5 Roots of C. Sunnah a D. Risalah	of Usul Ad-Din		Article of faitl	h	What is it?
Omnipotent		E. Muhamm F. Nature of G. Qu'ran H. Torah, Ps	E. Muhammad F. Nature of Allah				
Immanent		J. Al Qadir K. Day of Ju					
Transcendent		<b>B.</b> 5 Root	ts of Usul Ad-Din		4:		
		Root	What is it?	Quote	5:		
Beneficient		1:			6:		
Sunnah		2:			C.	Sunnah and Hadith	
Qur'an							
Hadith		3:					
6 Articles of Faith							
5 Roots of Usul Ad-Din		4:					
Akhirah							
Al Qadr		5:					





D.	Risalah (Prophethood	1)	E	Torah, Psalms and Gospels			
What is it	<ul> <li>What is it</li> <li>Muslims believe there has been 124,000 prophets</li> <li>Every Islamic prophet preached Islam and key beliefs</li> <li>The first was Adam, the last was Muhammad (Box E)</li> </ul>			The Psalms of Dawud are a collection of prayers to Allah     They contain lessons of guidance for the people			
		ah stops them from sinning are messengers who have been given ws	Gospel (Injil)	<ul> <li>This is the good news about Isa (Jesus)</li> <li>Muslims highly respect Isa because there are revelations in the Qur'an about him</li> <li>Muslims believe he was the Masih, he was not the son of Allah, he was not crucified, he did not die to save sins</li> <li>The gospels contain some mistakes because they were written many years after Isa died</li> </ul>			
The father of all     He taught abou     He taught life or life			Torah (Tawrat)	<ul> <li>The Tawrat is the Arabic word for the Torah</li> <li>These are the revelations given to Moses by Allah on Mt Sinai</li> <li>The Qur'an refers to the Tawrat as "guidance and light"</li> </ul>			
Ibrahim     Ibrahim was told in a dream to sacrifice Isma'il as a test of faith			Scrolls of Ibrahim	<ul> <li>Revelations received by Ibrahim on the first day of Ramadan</li> <li>Contained stories about workship and reflection</li> <li>Not a book, individual revelations</li> </ul>			
	F.	The Nature of Allah					
Tawhid		<ul> <li>There is only one God and this God has no ether than the created everything.</li> <li>Only He should be worshipped: worshipping</li> <li>"There is no God but Allah, and Muhamma"</li> <li>"Allah witnesses that there is no deity exceed the company of the</li></ul>	other Gods is ad is his me cept Him"				
2: Omnipotent		Allah is all powerful and has power over everything					
3: Immanence		Allah is active in the world and able to control events					
4: Transcendent		Allah is outside of the universe     Not limited by time or space					
5: Beneficience		God has love and good will					
6: Mercy		<ul> <li>"In the name of Allah, the most compassion</li> <li>God is forgiving and caring</li> </ul>	onate, the m	ost merciful"			
7: Fairness and	justice	Allah is fair to all people					

Allah has sent the same message to all prophets to allow humans numerous opportunities to submit to the will of Allah

• Allah will ensure that judgement is fair and punishments are suitable





D.	Risalah (Prophethood	)	E	Torah, Psalms and Gospels
What is it			Psalms (Zabur)	
Why are prophets important?			Gospel (Injil)	
Adam				
			Torah (Tawrat)	
Ibrahim			Scrolls of Ibrahim	
	F.	The Nature of Allah		
Tawhid				
2: Omnipotent				
3: Immanence				
4: Transcendent				
5: Beneficience				
6: Mercy				
7: Fairness and	justice			





G.	Qur'an I.		Angels			
Revelation	Chapters of the Qur'an were revealed to Prophet Muhammad over 13 years in Makkah While Muhammad received the revelations, he was not able to change them because it was the will of Allah	What are they?	<ul> <li>Angels are made from light and have wings which can move at the speed of light</li> <li>They have no gender and are in the unseen world</li> <li>They always complete what Allah asks and they always obey Allah as they have no free will</li> </ul>			
	After Muhammad received them, he recited them, and somebody wrote them down.	What do they do?	<ul> <li>Watch over humans</li> <li>Bring peace to believers and</li> <li>Angel of Death takes the sou</li> </ul>			
Authority	<ul> <li>It is the direct word of Allah so it has His authrotiy</li> <li>It is without error and remains in its' original form</li> <li>A written book was needed to formalise the religion</li> </ul>		Greet people entering paradise or throw people into the pits of hell     Signify the end of the world by blowing a horn      Most important angel in Islam     Always brings good news     Helped Ibrahim when he was thrown in to a fire, opened up the Zamzam well for Hajar     Told Maryam she would have a son (Isa)     Dictated the Qur'an directly from Allah			
What does it contain?	It covered every aspect of life     It influences a person throughout their lives     The basics of worship which Muhammad developed     Shari'ah law and social systems	Jibril				
Supreme authority	The Qur'an is believed to have supreme authority It is a timeless book – it is only the word of Allah if it is not translated from Arabic	Helped Muhammad to fight     Will help to weigh peoples' a		e – in charge of plants and rain for Makkah		
K.	Day of Judgement, paradise and Hell		J. Al Qadir			
11011111111111	<ul> <li>Muslims believe Judgement day will come on a Friday (A on a Friday)</li> <li>It will be announced by Israfils' trumpet</li> <li>Allah will refer us to the book of deeds to justify damnat</li> </ul>		<ul> <li>Everything happens as a result of Allah's will and nothing is ever random or without reason</li> <li>Allah is in charge of everything</li> <li>Everything is a part of Allah's plan</li> <li>"never will we be struck except by what Allah has decreed for us"</li> </ul>			
	Humans will go to paradise or Hell		E.	Muhammad		
Garman	<ul> <li>Paradise</li> <li>No growing ill, old or dying – it is a reward and gift from</li> <li>A person must live religiously and ask Allah for forgivene</li> <li>Good beliefs and actions</li> <li>It is beyond human imagination</li> </ul>		Why was he chosen?	Muhammad had characteristics such as responsibility, determination, patience, courage and honesty     He was highly respected in his community     He was extremely devoted to Allah – he prayed and fasted for long periods of time		
to Jannah	<ul> <li>"enter among my servants! Enter my paradise!"</li> <li>People will arrive over the As-Sirat bridge</li> <li>There are 8 gates and you go through the one which repaction</li> <li>Two angels welcome people saying "peace be upon you</li> </ul>		What did he do as a prophet?	He became the ruler of Madinah and set up the first Islamic community He converted the people of Makkah to Islam		
am	<ul> <li>Hell</li> <li>People wail in misery, 70x hotter than any flame on eart poured on their heads, pain, dragged in chains</li> <li>Punishment for a life full of evil or rejecting the teaching</li> </ul>		Why is Muhammad important?	He is seen as the perfect role model as he is trustworthy and obedient to Allah His influence can still be seen in the Hadith and Sunnah The night of power in Ramadan is to remember Muhammad's first revelation from the angel Jibril		





G.	Qur'an	l.	Angels		
Revelation		What are they?			
		What do they do?			
Authority					
What does it contain?		Jibril			
		Mika'il			
Supreme authority					
K.	Day of Judgement, paradise and Hell		J.	Al Qadir	
What will happen ?					
				E.	Muhammad
Jannah			Why w	as he chosen?	
Entry to Jannah			What o	did he do as a et?	
Jahann am			Why is importa	Muhammad ant?	



В.

1.

la alfombra

el armario

el ascensor

la butaca

la cocina

cómodo

compartir

el dormitorio

el fregadero

la habitación

el lavabo

la lavadora

el lavaplatos

el microondas

la nevera

la pared

el salón

el sillón

el suelo

## Topic Home, Town, Neighbourhood and Region

### GCSE Unit 5 SPANISH Knowledge organiser. 5.2G ¿Qué se puede hacer donde vives? What we are learning this term: bourhood, area

=	l	
	el barrio	neighbourhoo
your house is like	la biblioteca	library
our house and where it is	la bolera	bowling alley

el césped

descansar

el dinero

divertirse

el estanco

stamps)

la joyería

la juguetería

la panadería

la pastelería

el mercado

la muñeca

el museo

el parque

have a good time

el collar

- Saying what y Describing yo Talking about the amenities in your area el bolso Discussing the advantages and la carnicería
- disadvantages of living in the town and
- 6 Key Words for this term

country

- vivir alojamiento alquilar
  - 4. el hogar 5. la casa 6. las afueras
  - 5.1G Mi casa

  - carpet, rug

  - cupboard, wardrobe
  - armchair kitchen, cooker, cuisine
  - comfortable, convenient, handy
- to share el cuarto de baño bathroom
  - bedroom
- los electrodomésticos (electrical) appliances la escalera stairs
- el espejo mirror
- la estantería

room

fridge

armchair

around, floor

wall

washbasin

dishwasher

washing machine

microwave oven

lounge, living room

- shelves, shelving unit
- kitchen sink

- el club de jóvenes youth club

Correos

construir

la fábrica

la iglesia

el país

la plaza

el puente

el puerto

el siglo

el/la habitante

ir de compras

el polideportivo

el pueblo (small)

fundar

- el ayuntamiento bienvenido/a welcome el centro comercial shopping centre la ciudad city, large town
- 5.2F Mi ciudad la avenida avenue Town Hall

convertirse en (+ noun) to become

los espacios verdes open spaces

- la ropa (de marca) (designer) clothes la tienda de comestibles grocery store, food
- los pendientes la plaza de toros bull ring

Post Office

to build

factory

church

country

bridge

century

to found

inhabitant

to go shopping

sports centre

port, harbour

square (in a town)

town, village, people

handbag

butcher's

necklace

jeweller's

toy shop

museum

baker's

market doll

to enjoy oneself, to

tobacconist's (also sells

to rest

money

lawn

- infantil park, playground cake shop earrings

- arriba el balcón la calefacción
- los grandes almacenes department stores
- Viven They live abajo amplio/a

el comedor

el comercio

inferior

el jardín

lujoso/a

la mascota

la piscina

la planta

superior

la tienda

la torre

la vista

la planta baja

imprescindible

Vivir

Vivo

I live

Vives

Vive

You live

Vivimos

We live

He/she lives

To live

We rent Alguilan They rent 5.1H Mi casa y mi barrio

balcony

heating

lower

garden

pet

shop

**luxurious** 

swimming pool

ground floor

upper, higher

view, sight

tower, tower block

dining room

business, shop

essential, indispensable

floor (of a building), plant

la cocina amueblada fitted kitchen

alquilar

To rent

Alauilo

Alquilas

You rent

He/she rents

Alquila

I rent

Alguilamos Compran They buy

under, downstairs

spacious, roomy

above, upstairs, up

Compra He/she buys Compramos We buy

Comprar

To buy

Compro

Compras

You buy

I buy

You do

**Key Verbs** 

Hace s/he does Hacemos We do

Hacer -

Hago

Haces

Hacen

las afueras

antiquo

el árbol

el campo

field, sports ground

el chalet / chalé

house, villa

la costa

el estante

encontrar

la granja

guardar

away,to save

el mueble

peor

los muebles

encontrarse

They do

I do

to do/make

Nos mudamos We move

Mudarse

To move

Me mudo

Te mudas

You move

Se muda

He/she moves

I move

- Se mudan They move 5.1F ¿Cómo es tu casa?
  - outskirts

old

tree

- countryside,
- bungalow, detached
- coast
- shelf
- to find
- to be situated
- to meet up with
- encontrarse con farm

  - to keep, to put

worse

- la librería la montaña
  - bookcase, bookshop mountain
  - piece of furniture
  - furniture

	Т	GCSE Unit 5 SPANIS	_	_
What we	e are learning th	is term:	5.2G ¿Qué se pu	ede hacer donde vives?
Saying what your house is like     Describing your house and where it is     Talking about the amenities in your area     Discussing the advantages and disadvantages of living in the town and country			el la biblioteca la el la carnicería el	neighbourhood, area  bowling alley handbag lawn necklace
6 Key V	Vords for this te	rm	descansar	money
2. aloj	. alojamiento 5. la casa		have a good time elstamps)	to enjoy oneself, to tobacconist's (also sells
	5.1G M	i casa	los grandes almace la joyería	enes
la alfombi el armaric el ascens la compartir el cuarto e	sor armch kitchel comfo	air n, cooker, cuisine rtable, convenient, handy	la el mercado el la panadería los pendientes la plaza de toros la ropa (de marca) la tienda de comes	tibles
el dormito	orio		5.2F	Mi ciudad
los la el espejo	stairs	ectrical) appliances	la avenida el ayuntamiento bienvenido/a ————	shopping centre
la el fregade la habitac	ero	es, shelving unit	el club de jóvenes Correos construir convertirse en (+ no	city, large town

washbasin

fridge

armchair

ground, floor

el lavaplatos

el microondas

la pared

el salón

washing machine

open spaces

to go shopping

sports centre

port, harbour

square (in a town)

factory

el/la habitante

el pueblo (small)

la iglesia

el puente

el siglo

el

to found

country

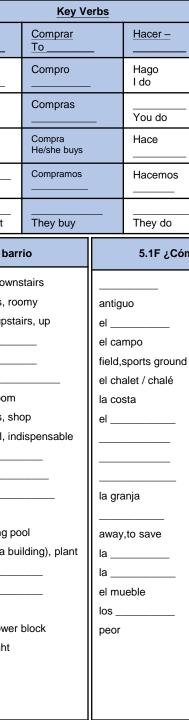
Vivo	Alquilo	Con
You live	You rent	Con
Vive	Alquila	Com He/s
We live	We rent	Com
They live	They rent	The
5.1H Mi	casa y mi barr	io
	under, downs	stairs
	spacious, roc	my
	above, upsta	irs, up
el balcón		
la calefacción		
la cocina amuebla	ada	
el	dining room	
el	_ business, sho	эр
	essential, ind	lispens
inferior		
el jardín		
lujoso/a		
	pet	
	swimming po	ol
	floor (of a bui	ilding),
la planta baja		
superior		
la	shop	
la	tower, tower	block
la	view, sight	

alquilar

To\_

Compra

To live



Mudarse

Me mudo

You move

Se muda

Nos mudamos

They move

house, villa

5.1F ¿Cómo es tu casa?

outskirts

tree countryside

shelf

to find to be situated to meet up with

to keep, to put

mountain

furniture

bookcase, bookshop

То



## GCSE Unit 6 SPANISH Knowledge organiser.

## **Topic Social Issues**

## What we are learning this term:

- Talking about different ways of volunteering Talking about charities and voluntary work
- Talking about healthy eating Talking about healthy and unhealthy
- lifestyles
- Listening for different tenses

#### 6 Key Words for this term

- un voluntario/a
- ecologista los sin techo
- 4. comedor social banco de alimentos.
- 6. auiero

#### 6.1G ¿Quieres ser voluntario/a?

arreglar to tidy, to fix, to arrange to help (to) ayudar (a) el banco de alimentos food bank charlar to chat soup kitchen el comedor social competition el concurso cultivar to grow, cultivate disfrutar to enjoy ecologista environmental la gente mayor old people home hogar to clean limpiar marcar (un gol) to score (a goal) necesitado needed, required los necesitados the needv la organización benéfica charitable organisation, charity participar (en) to take part (in) pasarlo bien to have a good time

proteger to protect la residencia de ancianos old people's home the homeless los "sin techo"

the Third World el Tercer Mundo la tienda con fines benéficos charity shop

/tienda solidaria

el/la voluntario/a volunteer

## 6.1F Me gustaría ayudar

agradecer to thank aprender to learn el asombro amazement, surprise contar (que) to tell, to relate el curso school year, course the others, the rest los/las demás to wait for, to hope, to esperar expect formar parte to be part (of) hacer la cama to make the bed el centro de menores children's home tutelados el idioma language inútil uselessel propósito aim, purpose, objective to deliver, to hand out repartir tener sueño to be sleepy la tienda solidaria charity shop útil useful

#### 6.2G ¿Comes bien?

acostarse to go to bed las bebidas alcohólicas alcoholic drinks las bebidas azucaradas sugary drinks borracho/a drunk el dolor pain, ache emborracharse to get drunk evitar to avoid glotón greedy fat la grasa grasiento/a fatty, greasy intentar (+ infinitive) to try to el ladrón thief, robber malsano unhealthy musulmán Muslim poco sano not healthy la ración portion saludable healthy healthy sano

### **Key Verbs**

facilities

las obras benéficas charity, charitable works

loss

belonging to

politician

resources

**AIDS** 

to fear

HIV positive

el medio ambiente environment

las instalaciones

perteneciente a

el/la político/a

los recursos

seropositivo/a

el sida

temer

la pérdida

П						2002			
]	Ayudar To help	<u>Ir</u> To go	Soportar To stand		Hacer – to do/make	Limpiar To clean			
	Ayudo I help	Voy I go	Soporto I can stand		Hago I do	Limpio I clean			
	Ayudas You help	Vas You go	Soportas You can sta	ınd	Haces You do	Limpias You clean			
	Ayuda He/she helps	Va s/he goes	Soporta He/she can s	tand	Hace s/he does	Limpia He/she cleans			
	Ayudamos We help	Vamos They go	Soportamos W can stand		Hacemos We do	Limpiamos We clean			
	Ayudan They help	Van They go	Soportan They can st	and	Hacen They do	Limpian They clean			
	6.1H La importancia de obras benéficas				6.2H ¿Qué opinas?				
	andar el bolsillo contribuir dar asco el dibujo donar	to walk pocket to contribute to nauseate drawing to donate	threatened	agua asqu ataqu aume el bo stree cada el ce el co	to put up with, to bear disgusting heart attack to increase drinking party in the more and more brain consumption heart				
	with extinction) escaso/a la exposición el ganador	scarce exhibition winner to win			to antes drogadicto/a ad cuesta ntar e r daño a gado	as soon as possible drug addict age survey to face serious to injure, to harm liver			
	ganar gastar	to win to spend		nociv		harmful to take part (in)			

pedir

prohibir

provocar

reducir

obesity

la venta

subir

el pulmón

síndrome de

abstinencia el sobrepeso

el tabaquismo

(someone to do something)

los primeros auxilios first aid

to ask (for), to ask

to prohibit, to forbid

to cause, to provoke

withdrawal symptoms

addiction to tobacco

lung

to reduce

to go up

sale

excess weight,



What we are learning this term:

## GCSE Unit 6 SPANISH Knowledge organiser. Topic Social Issues

la

saludable

	ny and unhealthy		
6 Key Words for this te	rm		
<ol> <li>un voluntario/a</li> <li>ecologista</li> <li>los sin techo</li> <li>4. comedor social</li> <li>banco de alime</li> <li>quiero</li> </ol>			
6.1G ¿Quieres s	er voluntario/a?		
to hell el banco de alimentos charlar el comedor social competo gro disfrutar ecologista old pel home limpiar marcar (un gol) neede los necesitados la organización benéfica participar (en)	etition w, cultivate eople ed, required re a good time		

6.1F Me	gustaría ayudar
agradecer	
agradecer	to learn
el asombro	to learn
ei asombio	to tell, to relate
	*
los/las demás	school year, course
105/145 0011145	to weit for to hope to
	to wait for, to hope, to
expect	
formar parte	
hacer la cama	
el centro de menor	es
tutelados	
	language
	useless
	aim, purpose, objective
repartir	
	to be sleepy
la tienda solidaria	
útil	
6.2G ¿	Comes bien?
acostarse	
	licas
las bebidas azucar	
ido bobiddo dedodi	drunk
	pain, ache
	to get drunk
evitar	to got drunk
glotón	
•	
la grasa	fotty, gracey
intentor ( Linforting	fatty, greasy
intentar (+ infinitive	e)
el ladrón	
	unhealthy
musulmán	
	not healthy

portion

healthy

#### **Key Verbs** Limpiar <u>Ir</u> Soportar Hacer -To stand To help To clean Ayudo Voy Hago I can stand I clean I go Vas Soportas Haces Limpias You help You do Ayuda Soporta He/she can stand s/he goes s/he does He/she cleans Ayudamos Soportamos Limpiamos Vamos Hacemos W can stand We help Limpian They go They do They clean They help They can stand 6.1H La importancia de hacer obras 6.2H ¿Qué opinas? benéficas to put up with, to bear asqueroso/a andar to \_ ataque cardíaco pocket to \_\_\_\_\_ aumentar contribuir to \_\_\_\_ drinking party in the el to nauseate el dibujo street cada vez más donar to \_\_\_\_ brain threatened (threatened consumption with extinction) el corazón escaso/a as soon as possible exhibition la el/la drogadicto/a winner la \_\_\_\_\_ age ganar la \_\_\_\_\_ survey gastar enfrentar to \_ facilities serious el medio ambiente to injure, to harm charity, charitable works el hígado la pérdida nocivo/a perteneciente a to take part (in) politician to ask (for), to ask resources (someone to do something) seropositivo/a los primeros auxilios AIDS to prohibit, to forbid temer to cause, to provoke el pulmón reducir síndrome de withdrawal symptoms abstinencia el\_ excess weight, obesity subir

la venta

addiction to tobacco

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

A.	Terms		What we	are learning this term:		c.	Flowch	art Symbol						
Abstra	action	The process of removing all unnecessary details from a problem.	A. Terms B. Common C. Flowch D. Data T			Syn	nbol	Usage	Symbol Name					
Algori	thm	The sequence of steps required to carry out a specific task.	В.	Common Algorithms	Worked Example			The start or end of the	Terminato					
Assigi	nment	Setting the value of a variable in a computer program.	Binary Search	Compares the search object to the middle point of a sorted list. If they are not equal, the half in which the target cannot lie is eliminated and the search	2,5,6 searching for 6 Midpoint 5 5 < 6, remove left side of list 2,5,6			algorithm.  An action	Process					
Data		Units of information which are acted upon by instructions.		continues on the remaining half, again taking the middle point to compare to the search object, and repeating this until the target value is found or the end is	Midpoint 6 6 == 6 Item found			which occurs during the algorithm.						
Decon	nposition	Breaking down a problem into smaller steps that are easier to work with and solve.	Bubble Sort  Sort a list by continuously stepping through a list, swapping items until they appear in the correct order.  Linear Search  Compares the search object with each item in the list in order from the beginning until it is found or the end is reached.	Sorts a list by continuously stepping through a list, swapping items until they	5,1,3 1,5,3 1,3,5 1st pass complete		/	Data is either inputted to or outputted from the algorithm.	Input/ Output					
Flowc	hart	A diagram which shows the step-by-step flow of an algorithm.			1.3.5 1,3.5 2 <sup>nd</sup> pass complete - sorted		A Yes/No,	Decision						
Input		Data which is inserted into a system to be processed or stored.		2,6,5 searching for 6 2!=6			True/False decision.							
Outpu	utput	Data which is sent out of a system.									2,6,5 6==6 Item found			
Proce	ss	An action taken by the				D.	Data Ty	pes	Example					
		program without input from the user.				В	oolean	TRUE/FALSE or 1/0	TRUE or 1					
Pseud	ocode	A method of writing an algorithm using plain English.	Merge Sort		5,1,3 5,1 3 Break list into sublists 5 1 3 Until sublists contain 1 # 1,5 3 Merge pairs	Cr	aracter	A single, alphanumeric character.	1 or A or !					
Variab	ole	A memory location		and combined. The process is then	1,3,5 Until all sublists merged	l l	nteger	Whole numbers	15					
		within a computer where values are stored.		repeated until the list is recompiled in the correct order as a whole.		;	String	One or more alphanumeric characters.	1A!					

Real/Float

15.5

Decimal numbers

## Year 10 Computer Science – Term 1

					C.	1		
A.	Terms	What we are	What we are learning this term:			Flowchar	t Symbol	
Abstra	action	A. Terms B. Common C. Flowchart D. Data Type	S		Sy	mbol	Usage	Symbol Name
		В.	Common Algorithms	Worked Example				
Assig	nment	Binary Search		2,5,6 searching for 6				
Data								
Decor	mposition							
Flowc	chart	Bubble Sort		5,1,3				
Input								
Outpu	ıt	Linear Search		2,6,5 searching for 6				
Proce	ess							
					D.	Data Type	es	Example
Pseud	docode	Merge Sort		5,1,3		Boolean		
						Integer		
Variak	ble					String		
					R	eal/Float		



## GCSE Business. Paper 1 1. Enterprise and Entrepreneurship



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

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

I. Risks and Rewards of starting a new Business					
Risks	Rewards				
Business Failure	Success				
One of the biggest risks of starting a new business is	Success and a sense of achievement are an integral part of business. When a business is successful this comes with a huge sense of pride and satisfaction for the entrepreneur				
Financial Loss	Profit and Wealth				
	If the business is successful it can generate huge returns. Income and wealth are a huge motivator for a potential entrepreneur.				
Lack of Security	Independence				
uncertainties. Will the Business be successful? Will	By becoming independent, entrepreneurs make their own decisions and if necessary, their own compromises. Being your own boss and making decisions without external				
and financial security is a major risk when starting a business.	influence can be a powerful motivator when starting your own business.				

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

	3. Why new business ideas come about:		
	Why?	Explanation	
	Changes in what consumers want	Consumers desires and tastes change all the time. These changes create markets for entrepreneurs to invest in.	
	Products and services becoming obsolete	Products can become obsolete due to changes in technology and consumer wants.	
	Changes in Technology	Changes in technology can lead to improvements in existing products, the creation of new ones and help in making business more efficient.	
	Key Terms and Definitions		
	Demand	The number of units that customers want and can afford to buy	
	Entrepreneurs	Businesspeople who see opportunities and are willing to take risks in making them happen.	
r	Obsolete	A product or a service with sales that have declined or come to an end as customers find something new.	

4. How new business ideas come about:		
Term .	Definition	
Adapting existing products	Developing new products based on existing products.	
Competitive Advantage	A feature of business that helps it to succeed against rivals.	
Original Ideas	deas that have not been done before.	

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

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

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



# GCSE Business. Paper 1 1. Enterprise and Entrepreneurship

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1. The [	1. The Dynamic Nature of Business			3. Why new business ideas come about:				
Term		Definition		Why? Explanation				
Dynamic				Changes in what consumers wa	ant		-	
Nature of								
Business				Products and services becomin	g obsolete			
Venture								
Capital				Changes in Technology				
2 M/hv	start a B	usiness?						
Starting a	Explanat			Key Terms and Definitions				
Business	LAPIAIIAL	.1011		Demand				
Why?	+			Entrepreneurs				
writer								
				Obsolete				
Who?	1			<b></b>				
				4. How new business ideas con	no about			
				Term	ie about.		Definition	
				Adapting existing products			Permitton	
				Competitive Advantage				
How?				Original Ideas				
	<u> </u>							
				_				
a piele de		· Catalana and a same		6. The Role of Bu	siness Ent	terprise	- Definitions	
	ewards o	of starting a new Busines		Term	Definition	•		
Risks			Rewards	Customer Needs				
Business Failure			Success	Customer Wants				
				Goods				
				Goods				
				Services				
Financial Loss			Profit and Wealth		-			
1				7. Adding Value				
11 -4 C ''			la de crea de crea	Term	Definitio	n		
Lack of Security			Independence	Branding	20			
1				11				
				Unique Selling Point				
5. Ris	k and	Rewards of Busines	ş	Value Added				
			Definition					
Term			Permitton	┥				
Business Fa	illure			8. Role of Entrepreneurship				
		+	Qualities needed	Explanati	on			
Independer	nce			Ability to take risks				
				Making decisions				
Lack of Fina	ancial S	Security		Showing Leadership				
				Organising				
Risk and Re	ward							
I I I I I I I I I I I I I I I I I I I				Resources				
1			I	1				

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



A.

Key word

1. Terrestrial TV

2. Satellite TV

3. Fanzines

5. Podcasts

6. P2P Sharing

7. Pay-per-view

8. Fan sites

4. Bloa





















**Key information** 





# What we are learning this term:

How sport is covered across the media

objectives?

Examples of how sport is broadcast across different media platforms

**Key question from Assessment** 



Kev definition

Free to air TV

Requires a monthly

Magazines written and

payment to watch

published by fans

discussion posted

A digital audio file

downloading

available online for

The distribution and

One off paid for TV

sharing of digital media

Websites produced by

\*EN

RACING

An informal or

online

events

What sports are predominantly shown

sports fans

# Main assessment objectives

Learning outcome: Know how sport is covered across the media

What are the different forms of social media?

Facebook, Twitter, Snapchat and Instagram

What sports are shown on Pay-per-view channels?

- 1. Boxing
- 2. UFC 3. WWE





What satellite channels show sport?

likely to broadcast?

- 1. Sky
- 2. BT
- 3. Virain





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

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

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



s type of TV requires a one tch a live event

What is the difference between a tabloid and broadsheet newspapers?

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

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







National radio

2. FIFA World cup 3. Wimbledon

What sport information are radios

1. Premier league

4. Cricket World cup

Examples of national radio

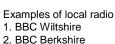
- Radio 1
- 2. Radio 2
- 3. Capital
- XFM







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



- 3. Heart Wiltshire
- 4. STFC Radio





A.

Wimbledon/Olympics/Snooker/Interi football

on TV?

ITV- International football/Darts/Horse

Sky- Premier league football/Cricket/Golf

BT- Champions league football/NBA





					Year 10 Cambridge National- Me	edia and	Sport- Te	erm 1			
	What we are lear	ning this term:			Main assessn	Main assessment objectives				H	Key information
A. How sport is covered across the media     A. Examples of how sport is broadcast across different media platforms				Learning outcome: Know how sport is covered across the media						Newspapers	
			C.	C. What are the different forms of social media?						Satellite	
A.	Key question from	Assessment objectives?	Wha	What sports are shown on Pay-per-view channels? What satellite channels show sport?					Books		
Key word		Key definition									
1. Terrest	rial TV								╛┤	Fanzines	
2. Satellite	∍TV		1	A.	What is the difference between terrestrial, satellite and pay-per-view TV?	G.	What sport broadcast?	tinformation are radios likely to			
3. Fanzine	es					Nationa	l radio (4)			Blogs	
4. Blog										Video-sharing sites	
5. Podcas										Live streams	
6. P2P Sh	anng									Magazines	
7. Pay-per-view					Local ra	dio (4)		┨			
8. Fan site	9S									Terrestrial	
A. What sports are predominantly shown on TV?		] A.		What is the difference between a tabloid and broadsheet newspapers?					Pay-per-view		
										Dedicates sports radio	
										Fan sites	



# KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T1



Name

# Macronutrients, fibre and water

#### Macronutrients

Macronutrients provide energy. The macronutrients are:

- carbohydrate;
- protein;
- fat.

Macronutrients are measured in grams (g).

## Alcohol

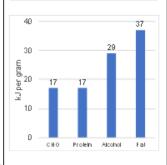
Alcohol is not considered a <u>nutrient</u>, <u>but</u> is a source of energy in the diet.

The government recommends no more than 14 units of alcohol per week for both men and women.

# Energy from food

- Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal).
- Different macronutrients, and alcohol, provide different amounts of energy.

	Energy per gram
Carbohydrate	16kJ (3.75 kcals)
Protein	17kJ (4 kcals)
Alcohol	29kJ (7kcals)
Fat	37kJ (9 kcals)



#### Protein

- Made up of building blocks called amino acids.
- There are 20 amino acids found in protein.
- Eight amino acids have\_to be provided by the diet (called essential amino acids).

The essential amino acids are isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan and valine.

In young children, additional amino acids, e.g. histidine and tyrosine, are sometimes considered to be essential (or 'conditionally essential') because they may be unable to make enough to meet their needs.

#### Recommendations

0.75g/kg bodyweight/day in adults.

#### Sources:

Animal sources: meat; poultry; fish; eggs; milk; dairy food.

Plant sources: soya; nuts; seeds; pulses, e.g. beans, lentils; mycoprotein.

#### Protein complementation

Different food contains different amounts and combinations of amino acids.

Vegans and vegetarians can get all the amino acids they need by combining different protein types at the same meal. This is known as protein complementation.

#### Examples are:

- rice and peas;
- beans on toast;
- hummus and pitta bread;
- bean chilli served with rice.

# Carbohydrate

All types of carbohydrate are compounds of carbon, hydrogen and oxygen. They can be divided into three main groups according to the size of the molecule.

# These three types are:

- monosaccharides (e.g. glucose);
- disaccharides (e.g. lactose);
- · polysaccharide (e.g. sucrose).

The two types main of carbohydrate that provide dietary energy are starch and sugars. Dietary fibre is also a type of carbohydrate.

Starchy carbohydrate is an important source of energy.

Starchy foods - we should be choosing wholegrain versions of starchy foods where possible.

#### Recommendations

- Total carbohydrate around 50% of daily food energy.
- Free sugars include all sugars added to foods plus sugars naturally present in honey, syrups and unsweetened fruit juice (<5% daily food energy).</li>
- Fibre is a term used for plant-based carbohydrates that are not digested in the small intestine (30g/day for adults).

#### Fibre

- Dietary fibre is a type of carbohydrate found in plant foods.
- Food examples include wholegrain cereals and cereal products; oats; beans; lentils; fruit; vegetables; nuts; and, seeds.

#### Dietary fibre helps to:

- reduce the risk of heart disease, diabetes and some cancers;
- help weight control;
- bulk up stools;
- prevent constipation;
- improve gut health.

#### Fat

Sources of fat include:

- saturated fat:
- monounsaturated fat;
- polyunsaturated fat.

Fats can be saturated, when they have no double bonds, monounsaturated, when they have one double bond, or polyunsaturated, when they have more than one double bond.

#### Recommendations

<35% energy, Saturated fat <11% energy.</li>

A high saturated fat intake is linked with high blood cholesterol levels.

#### Sources:

Saturated fat: fatty cuts of meat; skin of poultry; butter; hard cheese; biscuits, cakes and pastries; chocolate. Monounsaturated fat: edible oils especially olive oil; avocados; nuts. Polyunsaturated fatty acids: edible oils especially sunflower oil; seeds; margarine; spreadable fats made from vegetable oils and oily fish.

Dietary reference values (DRVs) are a series of estimates of the energy and nutritional requirements of different groups of healthy people in the UK population. They are not recommendations or goals for individuals.

Reference Intakes are guidelines for the maximum amount of energy (calories), fat, saturated fat, sugars and salt consumed in a day (based on a healthy adult female).

## Key terms

Dietary reference values: Estimated dietary requirements for particular groups of the population.

Essential amino acids: 8 of the different amino acids found in proteins from plants and animals that have to be provided by the diet. Macronutrients: Nutrients needed to provide energy and as the building blocks for growth

and maintenance of the body.

Protein complementation: combining different protein types at the same meal to ensure all EAAs are ingested.

Reference Intakes: Guidelines for the maximum amount of nutrients consumed.

#### Hydration

- Aim to drink 6-8 glasses of fluid every day.
- Water, lower fat milk and sugar-free drinks including tea and coffee all count.
- Fruit juice and smoothies also count but should be limited to no more than a combined total of 150ml per day.

20% of water is provided by food such as soups, yogurts, fruit and vegetables.

The other 80% is provided by drinks such as water, milk and juice.

Drinking too much water can lead to 'water intoxication' with potentially <u>life-threatening</u> hyponatraemia.

This is caused when the concentration of sodium in the blood gets too low.



# KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T1



# Micronutrients

Micronutrients are needed in the body in tiny amounts. They do not provide energy, but are required for a number of important processes in the body.

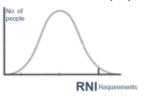
There are two main groups of micronutrients:

- vitamins:
- minerals and trace elements.

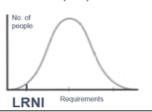
Micronutrients are measured in milligrams (mg) and micrograms ( $\mu g$ ) with 1mg = 0.001g and 1 $\mu g$  = 0.001mg.

#### Micronutrient recommendations

The recommendations for vitamins and minerals are based on the Reference Nutrient Intake (RNI).



When looking at low intakes of micronutrients, the Lower Reference Nutrient Intake (LRNI) is used.



For more information, go to: https://bit.ly/36KUnji

#### Micronutrient recommendations People have different requirements for each micronutrient, according to their:

- age;
- gender;
- physiological state (e.g. pregnancy).



## Vitamins

Vitamins are nutrients required by the body in small amounts, for a variety of essential processes.

Most vitamins cannot be made by the body, so need to be provided in the diet.

Vitamins are grouped into:

- fat-soluble vitamins (vitamins A, D, E and K);
- water-soluble vitamins (B vitamins and vitamin C).

#### Minerals

Minerals are inorganic substances required by the body in small amounts for a variety of different functions.

The body requires different amounts for each mineral.

Some minerals are required in larger amounts, while others are needed in very small amounts and are called 'trace elements'.

Vitamins		
Nutrient	Function	Sources
Vitamin A Helps the immune system to work		Liver, cheese, eggs, dark green
	as it should and with vision.	leafy vegetables and orange-
		coloured fruits and vegetables.
B vitamins	Thiamin, riboflavin, niacin, folate,	Different for each B Vitamin.
	and vitamin B12 have a range of	
	functions within the body.	
Vitamin C	Helps to protect cells from	Fruit (especially citrus fruits),
	damage and with the formation of	green vegetables, peppers and
	collagen.	tomatoes.
Vitamin D	Helps the body to absorb calcium	Oily fish, eggs, fortified breakfast
	& helps to keep bones strong.	cereals and fat spreads.
Vitamin E	Helps to protect the cells in our	Vegetable and seed oils, nuts and
	bodies against damage.	seeds, avocados and olives.
Vitamin K	Needed for the normal clotting of	Green vegetables and some oils
	blood and is required for normal	(rapeseed, olive and soya oil).
	bone structure.	

Minerals				
Nutrient	Function	Sources		
Calcium	Helps to build and maintain strong bones and teeth.	Dairy, calcium-fortified dairy- alternatives, canned fish (where soft bones are eaten) and bread.		
Iron	Helps to make red blood cells, which carry oxygen around the body.	Offal, red meat, beans, pulses, nuts and seeds, fish, quinoa, wholemeal bread and dried fruit.		
Phosphorus	Helps to build strong bones and teeth and helps to release energy from food.	Red meat, poultry, fish, milk, cheese, yogurt, eggs, bread and wholegrains.		
Sodium	Helps regulate the water content in the body.	Very small amounts found in foods. Often added as salt.		
Fluoride	Helps with the formation of strong teeth and reduce the risk of tooth decay.	Tap water, tea (and toothpaste).		
Potassium	Helps regulate the water content in the body and maintain a normal blood pressure.	Some fruit and vegetables, dried fruit, poultry, red meat, fish, milk and wholegrain breakfast cereals.		
lodine	Helps to make thyroid hormones. It also helps the brain to function normally.	Milk, yogurt, cheese, fish, shellfish and eggs.		

#### Key terms

Micronutrients: Nutrients needed in the diet in very small amounts.

Lower Reference Nutrient Intake (LRNI): is the amount of a nutrient that is enough for only the small number of people who have low requirements (2.5%). The majority of people need more.

Reference Nutrient Intake (RNI): the amount of a nutrient that is enough to ensure that the needs of nearly all the group (97.5%) are being met. The RNI is used for recommendations on protein, vitamins and minerals.

#### Vitamin D

Vitamin D is a pro-hormone in the body. It can be obtained in two forms:

- ergocalciferol (vitamin D<sub>2</sub>);
- cholecalciferol (vitamin D<sub>3</sub>).

Vitamin D<sub>3</sub> is also formed by the action of sunlight. Different to most vitamins, the main source of vitamin D is synthesis in the skin following exposure to sunlight. The wavelength of UVB during the winter months in the UK does not support vitamin D synthesis.



# Frayer Model Key Words

**Protein** A macronutrient that is essential to building muscle mass.

Fat A macronutrient which supplies the body with energy.

Carbohydrates A macronutrient that is required by all animals. It is made in plants by the process of photosynthesis.

Vitamin Support of the Big of the

**Nutritional** Providing or obtaining the food necessary for health and growth.

Energy The strength and vitality required for sustained physical or mental activity.



# KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T1



# QUIZ

## **Macronutrients**

Macronutrients provide energy. The macronutrients are:

- .
- .
- Macronutrients are measured in...... ( ).

Micronutrients are needed in the body in .......amounts. They do not provide......, but are required for a number of important......in the body.

There are two main groups of micronutrients:

- •
- Micronutrients are measured in ............ (mg) and ................ ( $\mu$ g) with 1mg = 0.001g and 1 $\mu$ g = 0.001mg.

# Key terms Dietary reference values:

Essential amino acids:

Macronutrients:

Protein complementation:

Reference Intakes:

# **Protein**

Made up of building blocks called

horo oro amino

There are ..... amino acids found in protein. Eight amino acids have to be provided by the diet (called...... amino acids).

Sources:

**Animal sources:** 

Plant sources:

## **Vitamins**

Vitamins are nutrients required by the body in small amounts, for a variety of essential processes.

Most vitamins cannot be made by the body, so need to be provided in the diet.

Vitamins are grouped into:

# **Protein complementation**

Different food...

Vegans and vegetarians can get all the amino acids they need by combining different protein types at the same meal. This is known as protein complementation.

Examples are:

- .
- •
- .
- .
- .

# Carbohydrate

All types of carbohydrate are compounds of carbon, hydrogen and oxygen. They can be divided into three main groups according to the size of the molecule.

These three types are:

- -
- -

The two types main of carbohydrate that provide dietary energy are starch and sugars. Dietary fibre is also a type of carbohydrate.

Starchy carbohydrate is an important source of energy.

Starchy foods -

### Recommendations

- Total carbohydrate around......of daily food energy.
- Fibre is a term used for plant-based carbohydrates that are not digested in the small intestine (30g/day for adults).

#### Fat

Sources of fat include: saturated fat; monounsaturated fat; polyunsaturated fat.

Fats can be saturated, when they have no double bonds, monounsaturated, when they have one double bond, or polyunsaturated, when they have more than one double bond.

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<35% energy, Saturated fat <11% energy.

A high saturated fat intake is linked with high blood cholesterol levels.

Sources:

Key terr	ns
Micronu	ıtrients:

.

Lower Reference Nutrient Intake (LRNI):

Reference Nutrient Intake (RNI):



# Year 10 PRODUCT DESIGN Term 1



# What we are learning this term:

A. Scales of Production

**Production Methods** 

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

D. Anthropometric Data

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

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

# B. Production Methods



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



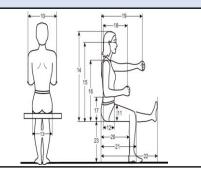
This is where waste and energy is kept to a minimum. This saves money and resources in production, as well as helping minimise the **environmental impact** of producing products.

# ( ) 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.

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

F.	Impact on Desig	n 🧖		
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.		

# G. 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.





Year 10 PRODUCT DESIGN									
What we are le	earning this t	erm:				E.	Impact on Peop	le	ή÷
A. Scales of Production C. Impact on Enterprise E. Impact on People G. Ergonomics B. Production Methods D. Anthropometric Data F. Impact on Design					Technology Push				
A. So	cales of Prod	uction 플릭	C.	Impact or	n Enterprise	Marke	t Pull		
Туре	How Many?	Examples	Crowdf	unding			<u>/</u> \$	<b>- &gt;</b> \	
One-off Production				<u>©</u>		Univer	sal Design		
Batch Production		Virtual and reta	marketing ail		Inclus	Inclusive Design			
Mass Production			Cooper	atives		User C	Centred Design (U	(\$ (\$)   (\$ (\$)   (\$ (\$)   (\$ (\$)	
Continuous Production			Fair tra	do		F.	Impact on Desig	gn	
Froduction			rali lia	S*		Planne	ed escence		
	uction Metho	ds Fing Systems (FMS)	D.	Anthropol	metric Data	Desigr Mainte	n for enance		
	Lean Man	nufacturing		10—1	19—19—1  k—18—3	Desigr Disass	n for sembly		
					14 15 16	Enviro	nmental Design		
Ju	st-in-Time (JI	T) Manufacturing			17	G.	Ergonomics		

# Context:

- Minimalism is a branch of modern classical music developed in New York in the early 1960s by composers such as Steve Reich, Philip Glass, Terry Riley and La Monte Young. As the name suggests, it involves stripping down music to its bare essentials (and beyond) to focus on its pure sonic power rather than anything it might evoke or represent.
- Initially, minimal music was characterised as droney and hypnotic.
- Perhaps the most successful UK composer associated with minimalism is Michael Nyman, sometimes billed as the best-selling classical composer in Britain. His 1993 soundtrack for Jane Campion's film The Piano has become a much-imitated modern classic.

# **Significant Artists and Recordings:**

- Steve Reich Clapping music, Piano phase, Music for 18 musicians, Electric Counterpoint
- Terry Riley In C
- Phillip Glass Einstein on the beach, Glassworks, Music in the shape of a square
- John Adams Phrygian Gates
- Brian Eno Music for airports
- La Monte Young Trio for Strings, Well Tuned Piano

# MINIMALISM

# Melody:

 Minimalist music uses cells/motifs - small snippets of melody using only a few notes

Example: In C (Terry Riley)

- Addition and Diminution techniques used to develop/change melodies over time
- Ostinatos used



# Rhythm:

- Repetition of rhythmic cells
- minimalist composers use phase shifting (two or more versions of a sound or musical motif are played simultaneously but slightly out of sync) Example: Clapping

Music - Steve Reich



- Sometimes, unusual time signatures used due to shifting rhythm patterns, e.g. 5/4. Example: Tubular Bells (Oldfield)
- Creation of complex **polyrhythms** (multiple rhythms at once)

# Harmony:

- simple, repetitive harmonies 'static', slow changes that are sometimes unrecognizable, creating a drone like hypnotic harmony. Example: Trio for String (La Monte Young)
- A consonant/diatonic harmony (no clashing sounds)

# **Tonality:**

 Tonality in minimalism is CLEAR - either major or minor. Example: Steve Reich Piano Phase is Minor (sad sounding)

# Structure:

- Through-composed pieces (continuous, nonsectional, and non-repetitive. In letters, it would look like ABCD)
- Development occurs in minimalism slowly and gradually, instead of being in sections like popular music structures (verse/chorus etc)

Example: Glassworks (Phillip Glass)

# Context: 1. Where and when is minimalism from? 2. What kind of music is minimalism? New classical or new pop (circle) 3. Who are the main composers? 4. What are the main characteristics of minimalism?

# **Significant Artists and Recordings:**

- Clapping music,
   Piano phase, Music for 18 musicians,
   Electric Counterpoint
- \_\_\_\_\_- In C
- Einstein on the beach, Glassworks, Music in the shape of a square
- \_\_\_\_\_\_- Phrygian Gates
- \_\_\_\_\_\_ Music for airports
- Trio for Strings, Well Tuned Piano

# MINIMALISM

# Melody:

- Minimalist music uses \_\_\_\_\_ which means
  - Example: In C (Terry Riley)
- \_\_\_\_\_\_ techniques used to develop/change melodies over time
- \_\_\_\_\_ used which are



# Rhythm:

- Example: Clapping Music Steve Reich

clap 1 ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,
clap 2 to 1 to

- Sometimes, \_\_\_\_\_ due to shifting rhythm patterns, e.g. 5/4. Example: Tubular Bells (Oldfield)
- Creation of complex \_\_\_\_\_\_

  (multiple rhythms at once)

# Harmony:

- harmonies 'static', \_\_\_\_\_ that are sometimes
  unrecognizable, creating a \_\_\_\_\_ like hypnotic
  harmony. Example: Trio for String (La Monte
  Young)
- A \_\_\_\_\_\_ (no clashing sounds)

# **Tonality:**

Tonality in minimalism is CLEAR - either

Example: Steve Reich Piano Phase is Minor (sad sounding)

# Structure:

- \_\_\_\_\_ pieces (continuous, non-sectional, and non-repetitive. In letters, it would look like \_\_\_\_\_)
- Development occurs in minimalism how?

Example: Glassworks (Phillip Glass)



# YEAR 10 BTEC DRAMA KNOWELDGE ORGANISER - COMPONENT ONE





# What we are learning this term:

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

## 6 Key Words for this term

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

# A.

# Key question – What is the artistic purpose of a performance work?

When watching a professional performance, the key questions you need to think about are the following...

How do we Explore artistic purpose?

Explore artistic purpose (across all three disciplines/styles)

including: to educate

to inform

to entertain

to provoke

to challenge viewpoints

to raise awareness

to celebrate.

#### A.

#### Component 1 - Key focus

In this component of the qualification students will develop their understanding of drama by examining the work of existing practitioners and the processes used to create performance. Students should experience a range of work across the discipline of drama by viewing recorded and/or live work.

While this is primarily a theoretical study of the performing arts practical investigations, students will be working at developing practical skills through workshops and links with Component 2 Developing Skills and Techniques in the Performing Arts, to engage in primary exploration of specific repertoire.

# C. Key question from Assessment objectives

- 1. What are physical skills
- 2. What are interpretive skills
- 3. How do we use these skills practically?
- 4. How do we IMPROVE on these skills?

- 1. What is a professional work
- 2. What is a practitioner
- 3. How do we analyse a performance
- 4. What are a practitioners creative intentions

G.	Key learning aims from Component 1						
Examin profess practitio	ional	A1: Professional practitioners' performance material, influences, creative outcomes and purpose  Examine live and recorded performances in order to develop		P			
		understanding of practitioners' work with reference to influences, outcomes and purpose. Focus on thematic interpretation of particular issues and how artists communicate their ideas to an		F			
		audience. Roles and responsibilities in theatre.		C			
				F			
Explore	ationships n uent s of l aance	Processes used in performance  Responding to stimuli to generate ideas for performance material. Exploring and developing ideas to develop material. Discussion with performers. Setting tasks for performers. Sharing ideas and intentions.		F			
		<ul> <li>Providing notes and/or feedback on improvements.</li> </ul>		li			

E.	Keywords					
Practition	ners	A professional theatre maker who creates in a specific style led by a specific theatre ideology.				
Performance material		The practical work that a practitioner creates for performance.				
Creative Intentions		The ideas behind the choreography, why the choreographer choose to create the work.				
Review		Look over your current work and the work of others and be able to review and comment on your own and others practice				
Analyse	/ Evaluate	Watch and then analyse your own performance and the work of others and giving comments and judgements on what you see				
Influences		How the practitioner has been influenced by others, their experiences, their training and how this has affected the work they create.				
Physical	l skills	The physical attributes that an actor uses, stamina, strength, flexibility, control, to dance with technical accuracy.				

# YEAR 10 BTEC DRAMA KNOWELDGE ORGANISER - COMPONENT ONE





# What we are learning this term:

- A. Understanding professional works
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6 Key Words for this term								
1 Practitioners	4 Performance material							
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3 Interpretive skill	6 Intentions							

A.	Key question – What is the artistic purpose of a performance work?
you need How do _	ching a professional performance, the key questions to think about are the following  ? three disciplines/styles) including:
to	_
to	<u> </u>
to	_
to	_

A. Component 1 – Key focus  In this component of the qualification students will develop their		
' '	A.	Component 1 – Key focus
understanding of drama by examining the work of s and the used to  Students should experience a range of work across the discipline of drama by viewing recorded and/or live work.  While this is primarily a theoretical study of the performing arts practical investigations, students will be working at developing practical skills through s and links with Component 2 and Te s in the Performing Arts, to engage in primary exploration of specific repertoire.	understandir s an Students sho drama by vie While this is practical inve	ng of drama by examining the work of  Ind the used to  Ind the used to  Ind the used to  Ind the used to  Ind the sand links with Component 2 and Te s in the Performing Arts, to engage in

# C. Key question from Assessment objectives

- 1. What are physical skills
- 2. What are interpretive skills
- 3. How do we use these skills practically?
- 4. How do we IMPROVE on these skills?

- 1. What is a professional work
- 2. What is a practitioner
- 3. How do we analyse a performance
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			_			
G.	Key learning	g aims from Component 1		E.	Keywords	
Examini professi practitio	ional	A1: Professional practitioners' performance material, influences, creative outcomes and purpose  Examineand performances in order to develop		Practition	ners	
		of practitioners' work with reference tos, os and pse.  Focus oni of particular i and how artists c te their_ideas to ane.		Perform	ance material	
		Roles and responsibilities in theatre.		Creative	Intentions	
Learnin	g aim B:	Processes used in performance		Review		
Explore	the titionships n ent s of	Responding toto generate ids for performance material.  Exploring and developing ideas to develop material.  Don with performers.  Settingfor performers.  sng ideas and intentions.		Analyse	/ Evaluate	
		Providing and/or feck on impnts.  and/or feck on impnts.		Influence	es	
				Physical	skills	

What we are learn				,				
A. Key words		В	What are the main life stages?		С		re the 4 areas of growth and	
B. What are the main life stages     C. What are the 4 areas of growth and		Age Group	Life Stage	Developmental Characteristics and Progress	Phys		development (PIES)?	
development (F D. How do Humar	PIES)? ns develop physically (P)?	0-2 years	Infancy			lcai elopment	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	Early	Becoming increasingly independent,			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	ectual lopment	I = how people develop their thinking skills, memory and	
Life stages	Distinct phases of life that each person passes through.	9-18 years	Adolescence	Experiencing puberty, which bring physical and emotional changes.	(I) (		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							
Language development	Think through and express ideas	<ul> <li>D. How do humans develop physically (P)?</li> <li>O-2 • Gross Motor Development (G) = life head, roll over, sit unaided, walk holding onto something, walk unaided, cli</li> </ul>				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 hand to other hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn page of a book of the control of t				ass item from one hand to other, s and circles, turn page of a book.	
Self-image	How individuals see themselves or how they think others see them	3-8	ride a bike, • F = hold a c	ricycle, catch a ball with two hands, walk backwa catch a ball with one hand, balance along a thin crayon to make circles and lines, thread small be	line. ads, cop	y letters a	nd shapes with a pencil, make	
Self-esteem	How good or bad an individual feels about themselves and how much they values their abilities.	9-18	Girls = pube Boys = voic	erty starts at 10-13 years, breasts grow, hips wice deepens, muscles and strength increase, erect and underarm hair, growth spurts.	len, men	struation b	egins, uterus and vagina grow.	
Informal relationships	Relationships formed between family members	19-45	Physically n	nature, sexual characteristics are fully formed, p	eak of pl	nysical fitne	ess, full height, women at most	
Friendships	Relationships formed with people we meet in the home or in situations such as schools, work or		fertile.  • Later in the life stage people may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down		ose hair, women's menstrual cycle			
Farmel	clubs	46-65	<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+	Women's ha	ontinue to be fertile throughout life but decrease air becomes thinner, men may lose most of their	hair, ski	in loses ela	asticity and wrinkles appear, nails	
Intimate relationships	romantic relationships.			ittle, bones weaken, higher risk of contracting in action time, muscle and senses (hearing, sight,			nd illness.	

		Teal 10 BIECT		Care	- Component 1. Human Ellespair	Develo	Sincht. LAA
Wha	at we are learn	ing this term:	В	What are the	main life etema?	С	What are the A cross of manufactual
B. C.	What are the 4	nain life stages areas of growth and	Age Group	Life Stage	Developmental Characteristics and Progress	Phys	What are the 4 areas of growth and development (PIES)? Explain them.
D.	1	ns develop physically (P)?	0-2 years			Deve (P)	elopment Q
A.	Key words fo	r this Unit	3-8				
Char	acteristics		years				ectual
Life	stages		9-18 years			(I) (	elopment
Grow	vth		19-45 years			Deve	tional elopment
Deve	elopment		46-65 years				99 -
	s motor lopment ( <b>G)</b>		65+ years			Social Development (S)	al elopment
	motor lopment <b>(F)</b>		D.	How do huma	ans develop physically (P)?		
Lang deve	juage lopment		0-2				
Cont	entment						
			3-8				
Self-	image						
Self-	esteem		9-18				
Information in the second seco	mal ionships		19-45				
Frien	ndships						
			46-65				
Form relati	nal ionships						
Intim relati	ate ionships		65+				

# 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)?

	1		Infancy and Early Childhood	Adolescence and adulthood			
G. How do hu	numans develop socially (S)?  At birth brains are already well	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		young children, security is mainly the feeling of being safe and loved – it is closely linked with	Security  Adolescence may feel insecure because of puberty. Adults may feel insecure about relationships, job security of income. Later in life adults may feel insecure about staying in their own home or going into a care home. Feeling secure helps us cope better with everyday situations.			
	months to 2 years infants understand processes and how things work. Language begins to develop during this stage.	,	ng children are content if they have had enough lean and dry and all other needs are met.	Contentment When people feel discontented with aspects of their life – for example, relationships or work – their emotions can be negatively affected.			
Early childhood	At 3-4 years of age children become more inquisitive and enjoy exploring objects and materials. They ask lots of questions and enjoy solving simple problems.  At 5-6 years old children's memory is becoming well developed. This helps	decisions. Infant children enter ea	s to care for yourself and make your own ts are completely dependent on their carer. As arly childhood they develop more independence get dressed. However, children still need a lot of arer.	Independence Adolescence are dependent on their parents but are beginning to enjoy more independence and freedom to make their own choices. Adults enjoy living independently and controlling their own lifestyle and environment. Later in adulthood people become more dependent on others again.			
	them to talk about the past and anticipate the future.	G.	How do humans develop socially (S)?				
Adolescence	During this time abstract thought is	Life Stage	Types of relationships and social development				
Addicacence	developed – thinking logically and solving complex problems are	Infancy	<ul> <li>Solitary Play - From birth to 2 years, infants te carer; they may be aware of other children bu</li> </ul>	and to play alone although they like to be close to their parent or the 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.	<ul> <li>Parallel Play - From 2 to 3 years, children enjoy playing next to other children but are absorbed in their game; they are not socialising or playing with other children.</li> <li>Cooperative or social play – from 3 years upwards, children start to play with other children; they have social skills that help them to share and talk together; they often make up games together, such as bein shopkeeper and customer.</li> </ul>					
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 r</li> <li>Social development closely linked to emotions</li> <li>Often strongly influenced by peers – 'peer gro</li> </ul>	S			
泉	experience to solve problems that they come across in their personal and work lives.	Early adulthood	<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	Middle adulthood	Children have often left home, but there are li     Social circles may expand through travel, spe	kely to still be strong family relationships. nding more time on hobbies or joining new groups.			
f	memory may decline. This may affect their ability to think through problems and make logical decisions.	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>				

rear to brec health and Social Care- <u>Component r</u> : human Lifespan Development. LAA							
What we are I	earning this term:	F. How do humans develop emotionally (E)? Explain each.					
E. How do humans develop intellectually (I)? F. How do humans develop emotionally (E)? G. How do humans develop socially (S)?			ng and A	Infancy and Early Childhood	Adolescence and adulthood  Self-image and Self-esteem		
E. How do	humans develop intellectually (I)?						
Infancy							
			<u>ty</u>		Security		
			<u>ntment</u>		Contentment		
Early childhood		Indepe	endence		<u>Independence</u>		
7		G.		How do humans develop socially (S)?			
		Life Sta	age	Types of relationships and social development			
Adolescence		Infancy	′				
4		Early childhood					
Early and Middle	ly and		cence				
Adulthood		Early adultho	ood				
Later adulthood		Middle adultho					
f		Later adultho	ood				

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 possessions

To do with person's wealth and income.

What we are learning this term:

H. Key words

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

J. How does lifestyle affect development?

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



to them impacts on their confidence and

and becoming independent.

Physical characteristics or disease may affect

opportunities or confidence in building friendships

## Negative lifestyle choices lead to:

feelings of isolation.

May cause difficulty in having opportunities to

socialize with other and build wider relationships.

- · 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.



What we are learn	I.	How do	o physical factors affect dev	elopment	?			
<ul> <li>H. Key words</li> <li>I. How do physical factors affect development?</li> <li>J. How does lifestyle affect development?</li> <li>K. How do social and cultural factors affect development?</li> <li>L. How do relationships and isolation affect development?</li> <li>M. How do economic factors affect development?</li> </ul>		Physical Develop	ment ual	Genetic Dis	sorders		<u>Disease and Illness</u>	
H Key words:								
Genetic inheritance  Genetic disorders		Emotion Develop						
		Social Develop	ment					
Lifestyle Choices				es lifestyle affect developme		n sevual relatio	onships and illegal drugs, appearance.	
Appearance				choices lead to:			estyle choices lead to:	O,
Factor					رين	•		υ
Gender role		:				:		
Culture		Our appe	earance in	ncludes: body shape, facial fea an affect the way we view ours	atures, hair selves- self	ir and nails, per f-image	rsonal hygiene and our clothing.	
Role models			self-imag	· · · · · · · · · · · · · · · · · · ·	Ц	<u> </u>	ve self-image	
Social Isolation		•			ت.			ν
Material possessions						•		
Economic						•		

lifestyle chices0 can be positive or

negative.

Not having enough

Not having enough

money can mean that

eat well balanced diet,

and this has a negative

effect on their physical

Living in a poor housing

with cramped and damp

· Have low self-esteem

and self-image

Be more likely to

Be lesson likely to

exercise

stressed.

others.

nicer, high self-image.

Anxious and

Not having a phone or

the newest trainers can

have a negative affect in

the persons self-image

and self-esteem. They

might feel isolated from

experience ill health

development

conditions:

the family is not about to

and anxiety.

money causes stress

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

They may be expected to carry out a particular role

They may be paid less.

K	How do social and c development	ultural factors affect	What we are learning this term:			(-	
Development can be influenced by the persons culture or religion because it affected their:  Values: how they behave		K. L. M.	How do social and cultural factors affect develor How do relationships and isolation affect development?				
	_ifestyle choices: diet, a	• •	L	How do relationships and isolation affect	M	How do economic fa	actors affect development
Positive affects of a persons persons culture/religion:  Negative affects of a persons culture/religion:			development?				
•	sons culture/religion.	• Culture/religion.	1		Having	g enough money	Not having enough money
•							•
			2		1 '	g enough money s that	Not having enough money can mean that
Community refers to:		3				<b>.</b>	
					Elderly people rely on state pension to live which is not		
Belonging to a community:  Not belonging to a community:  community:		4		enough and have to cut down on travel, shopping, l therefore it speeds their aging process and lead to health decline.			
•						in good housing	Living in a poor housing
						oen spaces:	with cramped and damp conditions:
			5				•
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Traditionally, men and women had distinctive responsibilities and expectations which for their gender called <b>gender roles</b> . However, nowadays UK equality legislation stops				•			
people being discriminated against because of their gender.					al possession like a hone or coat has a	Not having a phone or the newest trainers can	
What happens when people face discrimination because of gender:		7		positiv	e effect on the ns development	have a negative affect	
genuer.				becaus		•	
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# Year 10 BTEC Health and Social Care-Component 1: Human Lifespan Development. LAB What we are learning this term: Ο. How do people deal with life events?

Individual

Factors

N. What are life events?

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

supported?		Factors	<ul> <li>Factors that may affect now people cope with life events: age, other life events happening at the same time, the support they have, their disposition (their mood, attitude and general nature), their self-esteem, their resilience (how quickly they recover).</li> </ul>				
N. What are life events?  Life Events Life events are expected or		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</li> </ul>				
2.10 2.10	unexpected events that can affect development. Examples		own way to adapt to the changes that life throws at them.				
	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>				
Expecte 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?				
Unexped	aged 11.  cted Unexpected life events are	Types of Support	How this helps individuals deal with life events				
Life Eve	nts events which are not predictable or likely to happen. Examples could include divorce and bereavement (the	Emotional Support is needed to help individuals deal with all life events – expected and unexpected. Having someone to tall 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.					
	death of a loved one).	Information and Advice	Life events, particularly unexpected ones, can cause people to feel like they do not know what to do. Information and advice can help people to have a better understanding of their situation, which allows them to deal with it more successfully. Information and advice help them know where to go for help, the choices than are available to them and how to make healthy choices.				
Physical Events	Physical events are events that make changes to your body, physical health and mobility.						
	Examples include illnesses such as diabetes and injuries and accidents such as car accidents.	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>				
Relation Changes			Transport – an individual may need support with transport if they have mobility problems i.e. a car could be adapted to support a person who has had an accident and can no longer walk.				
	birth of a sibling, a new friendship or romantic relationship. Relationship changes can also be changes	Informal Support	Informal support is the support an individual receives from partners, family and friends. It is usually the first form of support an individual experiences after and expected or unexpected life event. Informal support can provide reassurance, encouragement, advice, a sense of security, someone to talk through options with and practical help.				
	to existing relationships such as divorce.	Professional Support	Formal support may be provided by statutory care services (the state), private care services and charitable organizations.  Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and health specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life changes				
Life Circumstance s	Life circumstances are different situations that arise in		and emotions, get advice and information or change their lifestyle.				
	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?     P. How is dealing with life events		Individual Factors		
supported?		. 4010.0		
N. What are life events?		Adapting		
Life Ev	rents		Resilience	
_			Time	
Expecto Events	ed Life		P.	How is dealing with life events supported?
			Types of Support	How this helps individuals deal with life events
Unexpe Life Eve	ected rents		Emotional Support	
Physica	al		Information and Advice	
Events				
			Practical Help	
Relatio Change				
Griange	00		Informal Support	
			Professional Support	
Life Circum	etance			
S	isianice		Voluntary Support	

# SWINDON ACADEMY READING CANON Year 7 Year 8 Year 9 Year 10 The Curious Incident of the Dog in the Night-Time The Hate U Give PEARL The Amazing Maurice The Outsiders The Art of Being Normal A Selection of Short Stories Sir Gawain and the Green Knight Witch Child #ReadingisPower