100% book - Year 11 Booster 11C/3

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



Term 4

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

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

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



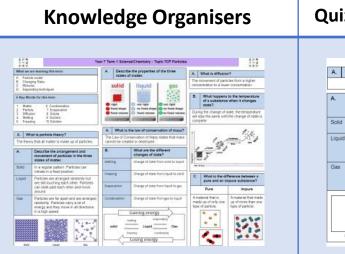








How to use your 100% book of Knowledge Organisers and Quizzable Organisers

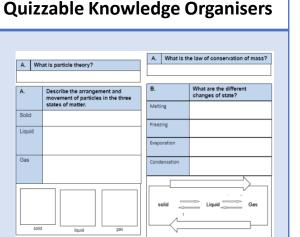


Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

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

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

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



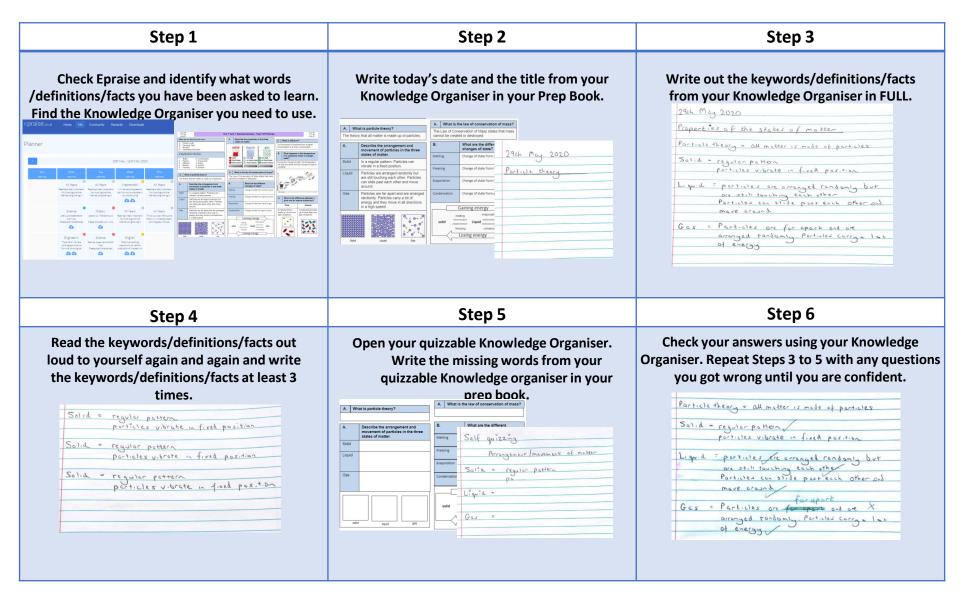
These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get

Expectations for Prep and for using your Knowledge Organisers

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

How do I complete Knowledge Organiser Prep?



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

AN INSPECTOR CALLS Foundation

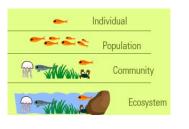
1. Context				4. Key Vocabulary			
Playwright: JB Priestley (1	laywright: JB Priestley (1894- Biography of Priestley		2. Key Character	s		Believing in private wealth and business aimed at	
1984)		Born in Yorkshire in 1894.		Inspector Goole: An mysterious figure who serves as Priestley's mouthpiece		Capitalist	making profit for business owners. Independent and
	Butes. Written in 1945		Fought in the first world war		and advocates social justice. He serves as the Birling's conscience and exposes		self-reliant.
			concerned with the	their sins.			Believing in shared ownership, collective
Russia, in 1945	,	effects of social inequality in		Mr Arthur Birling	A capitalist and business owner who opposes social change	Socialist	responsibility for one another and social equality for
Era: Edwardian	Britain in 1930		1930s	-	ty. He is a self-made man and lacks the refined manners of		all.
Genre: Drama			new political party in	the upper classes. Made a fool by Priestley to highlight the arrogance and		Ideology	A political viewpoint or set of beliefs, for example
Set: Fictional town Brumle	Fictional town Brumley 'an 1942, Th		e Commonwealth Party.	absurdity of his views.			socialism.
industrial city in the north		It merged with the labour Party				Responsibility	Being accountable or to blame for something, or having a duty to deal with something.
Midlands' in 1912	Midlands' in 1912 and was		integral in developing		Her husband's social superior, Mrs Birling is involved in ontradictorily believes in personal responsibility and looking		A ranking of status or power e.g. the strict class
Structure: Three Act Play		the welfa	ire state	after one's-self. Fails to understand her own children.		Hierarchy	hierarchy of Edwardian England.
Pre and Post War – Before	the first	Socialism - So	ocialism is a political			Patriarchy	A society in which power lies with men.
world war, many people di			er levels of equality.	-	ng and initially enthusiastic, Sheila grows and changes		, ,
believe that a war would ta		Socialism is ge	enerally concerned with		ay, embracing the views of the Inspector and challenging the of her parents. She becomes wiser and more cautious in her	Draindian	An opposition to or opinion about
place. There were strong		-	differences between	relationship with (Prejudice	something/someone based upon what they are e.g. working class, female etc.
distinctions between upper	and		cial status are erased				The belief that some behaviour is right and some is
lower classes, society was o			After the two World	-	early twenties, he drinks too much and forces himself upon	Morality	wrong.
patriarchal. After the secor war ended in 1945, class	nd word		ociety was far more list ideas. In <i>An</i>		she is pregnant with his child, he steals from his father to ther. Grows and changes, realises his own wrongs along with	Proletariat	The working class.
distinctions had been great	h.		s, the Inspector	everyone else's. C			The capitalist class in possession of the means of
reduced by the two wars an		presents socia	alist attitudes.	Carold Crofts A bu	sinessman engaged to Sheila, Gerald a relationship with Daisy	Bourgeoisie	acquiring wealth.
women had earned a more). Even though he sits between he two generations he is		The highest class in society and often holding titles
place in society After 1945	there	1 1			to Birling and fails to embrace the Inspector's message,	Aristocracy	passed from father to son, for example Lord and
was a desire for more swee	eping			instead seeking to prove he wasn't real.			Lady Croft.
social change.						Façade	A false front or surface-level illusion, for example the
Social and Moral Responsi	hility –	The Titanic –	The Titanic – RMS Titanic was a		Eva Smith : Doesn't appear in the play, but her suffering and abuse represents		façade of family happiness in the opening scene of the play.
Attitudes towards social an	•	British passenger liner that sank in the North Atlantic ocean in the morning hours of 15 th April 1912, killing around 1500 people. The Titanic was designed to be the pinnacle of both safety and comfort, and due to its enormous size and quality was frequently labeled 'unsinkable'. In <i>An Inspector Calls</i>		that of all the working classes. She also calls herself both Daisy Renton and Mrs Birling. The older characters begin to question whether she really is one person.			Someone or something that speeds up or triggers an
responsibility changed rapi				bining. The older characters begin to question whether she really is one person.		Catalyst	event.
the tine between when the	play			3. Central Themes		Antithesis	When something is the opposite of something else.
was set (1912) and the time	e the			5. Central ment	r		when something is the opposite of something else.
play was written (1945). In	1912 the				Priestley advocates a socialist message of collective responsibility for one another. The Inspector serves as his voice in conveying this ideology, but the younger generation also come to embrace it. The suffering of Eva Smith	5. Key Terminology.	Symbols and Devices
general attitude of those w	rith					or key reminology,	When the audience is aware of something that a
social status and wealth wa						Dramatic Irony	character is not aware of, for example Birling
towards looking after one's						Brainatic frony	believing war won't happen.
the mid-1940s however, th			this, thus immediately		need for a society that protects is most vulnerable.		When a story suddenly departs from its expected
party under Attlee won a la election reflecting a wave of		-	pect of the audience. It		Priestley presents a view that there is hope for change and	Plot Twist	path and something very unexpected happens. The
enthusiasm towards comm			symbol of the hubris		that it lies with the younger generation. Both Sheila and Eric		final phone call.
responsibility for everyone		and arrogance of man.		Age and the change for the better maturing and becoming more			Each act ends on a particularly dramatic, revealing
society.				Generational Divide	Cliffhanger	moment that creates a sense of tension and	
	nlav fita i	nto three possik	lo forme:		message. They also become vocal critics of their parents'		anticipation. When the playwright instructs actors/director to
	. ,			indifference to Eva's suffering.		Stage Directions	perform in a particular way. Priestley's are unusually
Well-Made Play	Morality	•	Crime Thriller		Priestley highlights the immense power that business owners		detailed.
A popular type of		st popular	Involves a	Class and	wielded over their workers and presents them as arrogant		Characters frequently leave or enter the stage at
drama from the 19 th			gripping tale	Class and Power	and lacking in empathy. He demonstrates Edwardian society's preoccupation with wealth and status at the cost of	Entrances/Exits	dramatic moments. Some characters miss important
century The events build to		centuries y taught the	based around a		the individual as a way of promoting change in post-WW2		events.
 The events build to a climax 		ience lessons	crimeThe audience		Britain.		Priestley uses stage directions to indicate how the
Plot is intricate and		focused on	receives clues		At the time the play was first performed, women had just	Lighting	stage should be lit. Changes to 'brighter and harder'
complex	that focused on the seven deadly		and must guess		played a pivotal role in World War 2 and were empowered		for Inspector.
oompion.	sins		what has	Gender	by the freedom work provided them. In the 1912 setting, we		Physical objects used in the play. The photograph
		racters who	happened before		see Sheila's growing independence vs her mother. However,	Props	plays a key role in identifying Eva. The doorbell
		mitted those	the end		the play still highlights the awful vulnerability of women and		interrupts Birling. Deliberately placing two very different things along
		were	All is revealed by	L	the outdated stereotyping of them.	Contrast and	side one another to draw comparisons e.g. Birling
	puni	ished	the climax			Juxtaposition	and the Inspector.
ł							and the hispector.

AN INSPECTOR CALLS Foundation

1. Context				2. Key Characte	ers	4. Key Vocabulary	I Contraction of the second
Playwright:		Biography o	f Priestley	Inspector Goole	:	Capitalist	
Dates: • First performed: •			Mr Arthur Birling:		Socialist		
				Ideology			
<u>Era</u> :				Mrs Sybil Birling:		Responsibility	
<u>Genre:</u> <u>Set:</u>		•		Shelia Birling:		Hierarchy	
						Patriarchy	
<u>Structure:</u> Pre and Post War –		Socialism –		Eric Birling:		Prejudice	
rie and rost war –		Socialisi				Morality	
				Gerald Croft:		Proletariat	
						Bourgeoisie	
				Eva Smith:		Aristocracy	
						Façade	
		The Titerie		3. Central Ther	nes	Catalyst	
Social and Moral Responsibility –		The Titanic –					
				Social Responsibility	Antithesis		
				Age and the Generational Divide			
					5. Key Terminology, Symbols and Devices		
					Dramatic Irony		
FORM – The	i		i	Class and Power		Plot Twist	
Well-Made Play	Morality Play Crime Thriller		Crime Thriller			Cliffhanger	
		•		Gender		Stage Directions	
						Entrances/Exits	
						Lighting	
			.			Props	
						Contrast and Juxtaposition	

Ecosystems

An ecosystem is all the living organisms within an area (community) plus the physical habitat



Interdependence

Organisms rely on each other for...

- Food
- Shelter / nesting sites
- Seed dispersal



S

Competition

Competition between organism occurs when resources within an ecosystem are limited. Animals and plants compete for different resources.

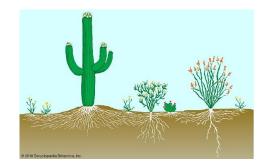
Plants	Animals
Light Space Minerals ions Water	Food Mates Territory

Biotic	and	Abiotic	Factors
--------	-----	---------	---------

Factors that affect the number of organisms

Biotic – living	Abiotic – non-living
 availability of food new predators arriving new pathogens one species outcompeting another so the numbers are no longer sufficient to breed. 	 light intensity temperature moisture levels soil pH and mineral content wind intensity and direction carbon dioxide levels for plants oxygen levels for aquatic animals.

Plant adaptations



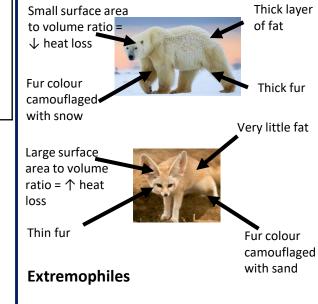
Plants in desert areas have :

- deep roots to maximise water uptake
- thin/no leaves to minimise water loss
- Spines to stop them being eaten

Animal Adaptations



- Structural a feature of the organism's body (e.g. thick fur, bright colours, camouflage)
- Behavioural responses from the organism (e.g. hibernation, migration, huddling together)
- Functional a body process (e.g. camel breaking down hump of fat into water, producing little urine



Extremophiles are organisms that live in extreme environments.

Extreme environments = high temperatures, high pressure or high salt concentration.

E.g. bacteria living in deep sea vents = extremophiles.

Science T3 Y11 B5.16 Mainstream Adaptations, interdependence, and competition

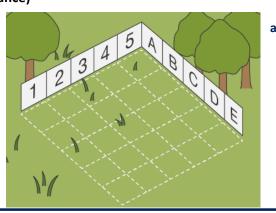
1. What is a community?	 Name two biotic factors that can affect organisms within a habitat 	1. Name the three types of adaptations
2. What is an ecosystem?		2. Name one behavioural adaptation
3. Give two things that animals rely on plants for	2. What does the term 'abiotic' mean?	3. How are animals adapted to live in cold
4. Give two things that plants rely on animals for		climates?
	3. Name two abiotic factors	4. What are extremophiles?
5. What is the term given to the predator at the very top of a food chain?		
6. Why are green plants known as producers?	4. Why do some plants have spines instead of leaves?	5. What is the surface area : volume ratio like on desert animals?
7. Name two resources plants compete for	5. Name two ways plants are adapted for living in desert climates.	6. Give an example of an extremophile
8. Name two resources animals compete for		

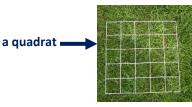
Science T3 Y11 B5.16 Mainstream Adaptations, interdependence, and competition

Required practical – Estimating Populations (Measuring abundance)

- 1. Calculate area of site.
- 2. Divide site up into a numbered grid
- 3. Use a random number generator to pick coordinates.
- 4. Randomly throw the 0.25m² quadrat at those coordinates.
- 5. Count the number of particular organism in the quadrat.
- 6. Repeat steps 3-5 ten times (minimum).
- 7. Calculate mean number of organism.
- 8. Calculate estimated number organism in site using the following equation: *area of site*

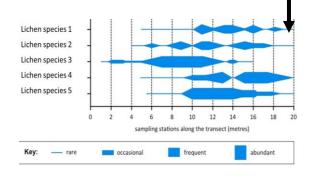
area of quadrat x mean

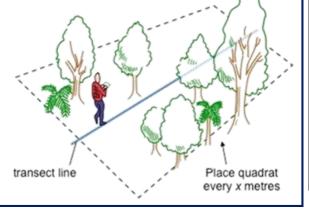




Required Practical – How populations may change over a distance (Measuring distribution)

- 1. Place tape measure (a transect line) through ecosystem being investigated.
- 2. Place quadrat at regular, random intervals along the transect line and count the number of particular organisms.
- 3. Draw a distribution graph of your results. (They might look like this.)

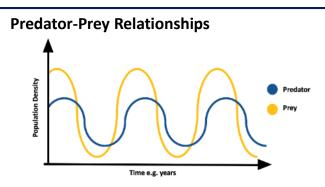




- 1. What is the minimum number of times the organism should be counted when estimating population size?
- 2. What is a quadrat?
- 3. What is the equation used to estimate population size?
- 4. How can you ensure the quadrat is randomly placed throughout the site?

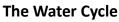
- 1. What is a transect line?
- 2. What is a transect line used to investigate?
- 3. How is the quadrat placed?

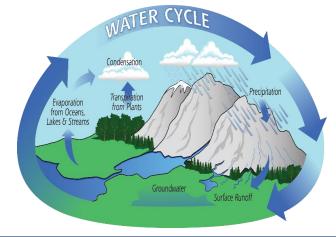
Science T3 Y11 B5.17 Mainstream – Organising an ecosystem

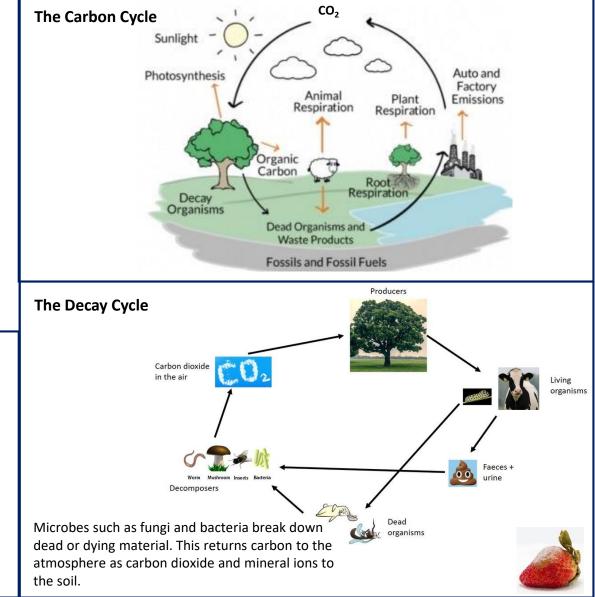


Population increases and decreases follow similar pattern in a cycle because they affect each other – more prey = more food for predator.

However predator and prey not 'in phase', e.g. predator population changes are delayed as it takes time for the predator population to grow.

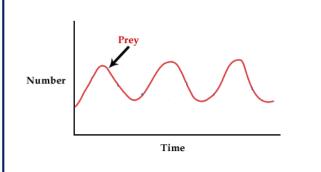






Science T3 Y11 B5.17 Mainstream – Organising an ecosystem

1. Sketch the line to show how the predator population would change on the graph below



1. What are the main stages in the water cycle?

- 1. Which process takes carbon into plants?
- 2. What do plants make with the carbon (and water)
- 3. Name 2 process that releases carbon into the atmosphere as carbon dioxide.
- 4. What happens to carbon that gets trapped deep underground for millions of years?

- 1. Which types of microbes cause decay?
- 2. What can decay release into the environment?

Science T3 Y11 B5.18 Mainstream Biodiversity and ecosystems

Biodiversity Biodiversity is a mea an area/ecosystem. Human Impact on		lifferent organisms living in	 Land pollution Household waste: toxic chemicals from landfill sites can leak into the soil. Industrial waste: toxic chemicals from industrial process can poison large areas. 		
Waste management		human population = more resources are used and uced – this contributes to pollution. Can occur in land.	 Agricultural waste: pesticides and herbicides get into the soil and can be washed into streams and rivers. They can also become part of the food chain and be passed up the food chain causing 		
Land Use		amount of land available for other animals and quarrying, farming, dumping waste and the bogs.	 dangerous levels in the top predators (bioaccumulation). Air pollution Acid rain: sulphur dioxide and nitrogen dioxides dissolve in rain 		
Deforestation	In tropical areas it h fields or grow crops	as occurred to provide land for cattle and rice for biofuels.	 turning it acidic. Smog: a haze caused by smoke particles and acidic gases. Smoke pollution: particulates (tiny solid particles) reflect the sunlight causing global dimming. 		
Global Warming	atmosphere are inc	oxide, methane and water vapour in the reasing, and contribute to 'global warming'. This rises, flooding, changes in species distribution, n patterns.			
Maintaining Biodiversity Water pollution • breeding programmes for endangered species • Fertilisers: nitrates from fertilisers are easily washed from the soil into streat lakes and river. • protection of rare habitats • Untreated sewage: contains high level nitrates and can be washed into river pumped into the sea.		 Fertilisers: nitrates from fertilisers are easily washed from the soil into stream, lakes and river. Untreated sewage: contains high levels of nitrates and can be washed into rivers or pumped into the sea. Toxic chemicals: from landfill sites can 	The greenhouse effect Some heat escapes into space The greenhouse effect SPACE The Sun's rays		
1. What is biodiversity ?			warm the Earth by greenhouse gases travels back to Earth		
 What is the im What is the im 	pact land use on bio pact of deforestation		 EARTH Give three causes of land pollution? Give three examples of air pollution? 		
 How is biodiversity maintained? Give three causes of water pollution? 			1. What is the greenhouse effect?		

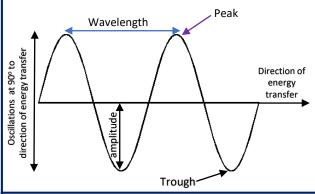
Science T3 Y11 P4.12 Mainstream Wave Properties

Transverse Waves

- Oscillations (vibrations) **perpendicular** to direction of energy transfer.

Examples:

- Electromagnetic waves
- Ripples on water.

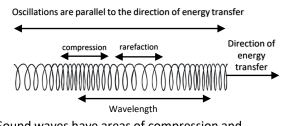


Longitudinal Waves

- Oscillations (vibrations) are **parallel** to direction of energy transfer.

Examples:

- Sound waves



Sound waves have areas of compression and rarefaction.

Compression = particles pushed closer together Rarefaction = particles are further apart

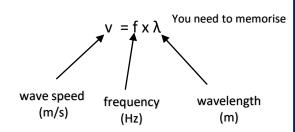
Properties of Waves

Amplitude – maximum displacement from undisturbed position.

Wavelength – distance from a point on one wave to the equivalent point on the next wave.

Frequency – number of waves passing a point each second. Frequency is measured in Hertz (Hz) 1Hz = 1 wave per second.

Wave speed – the speed at which energy is transferred through a medium.



Measuring speed of sound waves in air

- Stand 50m from a large flat wall.

- One person claps/bangs bricks

- Measure time taken to hear the echo.

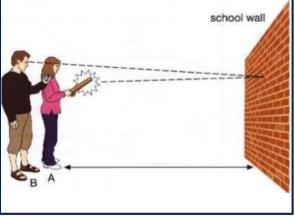
- Calculate speed of sound using:

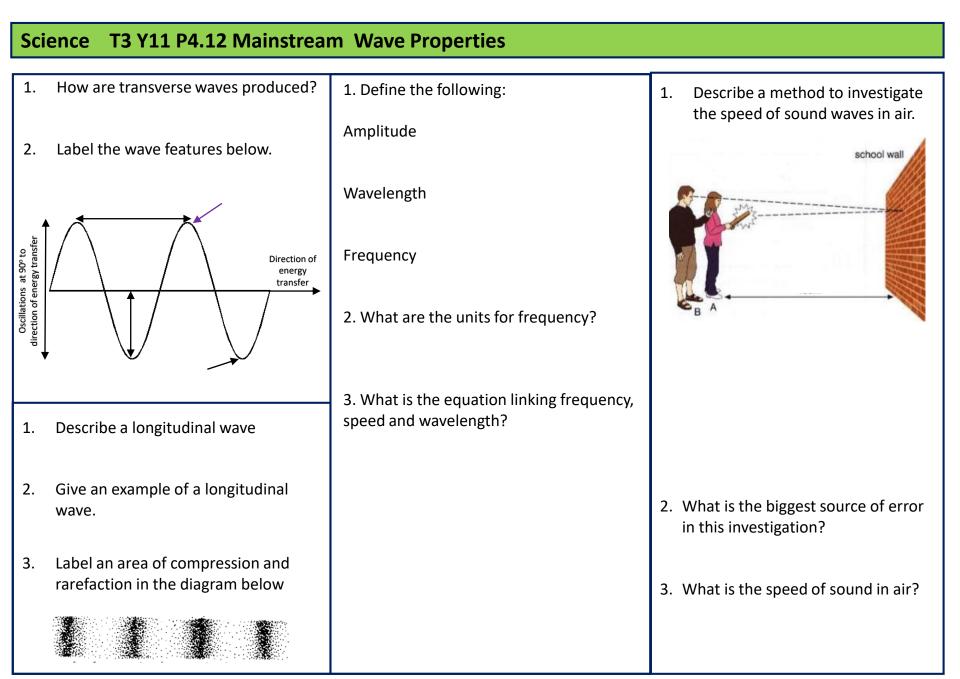
Speed = distance x time

- Remember distance is double (in this case, 100m) as it travels to the wall and back.

- Take several measurements and calculate the mean to reduce error.

This is unlikely to produce an accurate value for sound in air (330 m/s) as the reaction time of the person operating the stopwatch is likely to be a significant proportion of the time measurement.





Science T3 Y11 P4.12 Mainstream Wave Properties Required Practical – investigating wave in a solid and a ripple tank

Measuring waves in a liquid Equipment • Ripple tank • Measuring ruler • Stop watch wooden bar supported by elastic bands * Ripple tank • Measuring ruler • Stop watch

Method

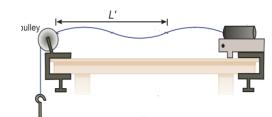
- 1. Set up the equipment as shown and turn on the motor to produce low frequency waves so that they are able to be counted.
- 2. Adjust the lamp until pattern is seen clearly on white screen underneath
- 3. Use a ruler to measure the length of a number of waves (e.g 10) and divide the length by the number of waves to give wavelength. This improves the accuracy of the measurement.
- 4. Record the waves using a camera or mobile phone. Count the number of waves passing a point in 10 seconds using a stopwatch and slowing the recording down.
- 5. Divide the number of waves counted by the time to give frequency.
- 6. Use v = f x λ to calculate the wave speed. Repeat for different frequencies of the motor.

Ехр	Length of 10 waves (cm)	Wavelength of 1 wave (cm)	Number of waves in 10 s	Frequency (Hz)	Speed (cm/s)
1	65	0.65	121	12.1	7.9
2	50	0.5	155	15.5	7.9
3	42	0.42	187	18.7	7.9

Measuring waves in a solid

<u>Equipment</u>

string, vibration generator, hanging mass set and pulley



Method

- 1. Set up the equipment as shown.
- 2. Turn on the vibration generator
- 3. Adjust the length of the string until a standing wave is achieved
- 4. The frequency can be read from the vibration generator
- 5. Measure as many complete waves as possible using a rule
- 6. Divide the length by the number of waves to give wavelength
- 7. Calculate speed using $v = f x \lambda$

Conclusion:

In both experiments, when you increase the frequency, the wavelength decreases – the speed remains the same in the same medium

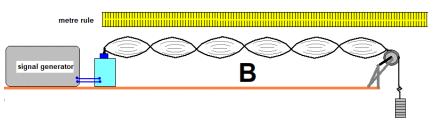
Science T3 Y11 P4.12 Mainstream Wave Properties Required Practical – investigating wave in a solid and a ripple tank

1. Complete the table below to explain the method in calculating the speed of waves in a ripple tank.

Step	Reason
Fill the ripple tank with water,	
switch on a lamp and place white	
card underneath the tank.	
Switch on the motor and adjust it	
to give low frequency waves	
Place a stopwatch next to the card	
and record the waves, with the	
stopwatch in view for 10 seconds	
Play the recording in slow motion,	
count the number of waves	
passing a certain point and divide	
this by 10	
Measure the length of 10 waves	
by taking a picture of the card	
with a ruler on it.	
Divide the length by 10	

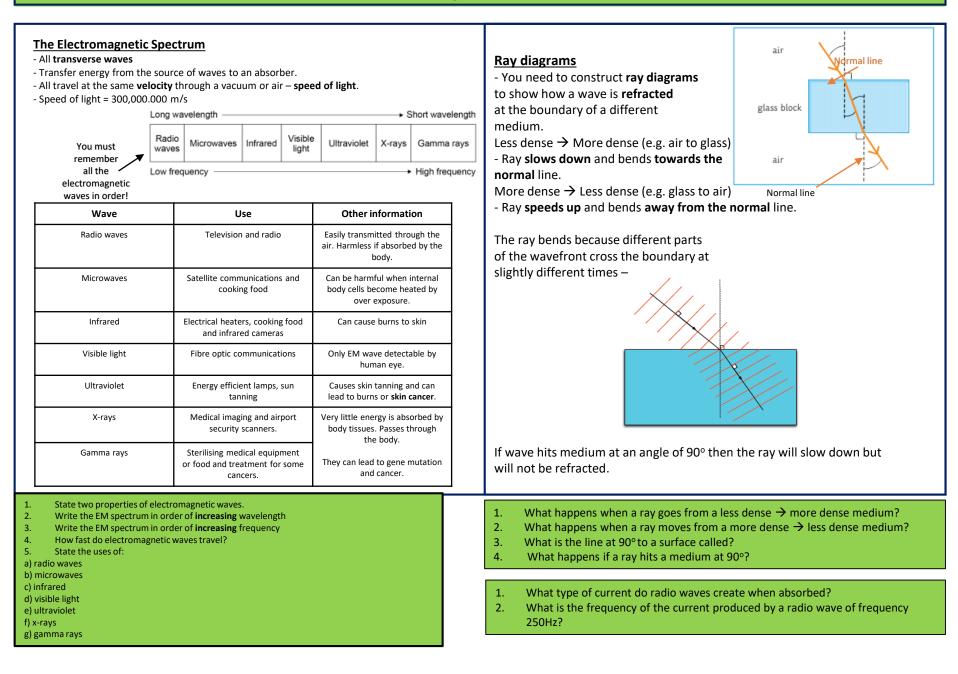
- 2. If the length of 10 waves is 55cm, what is the wavelength of 1 wave?
- 3. If there are 210 waves in 10 seconds, what is the frequency?

1. When investigating waves produced by a vibration generator on a string, how do we know the frequency?



- 2. How many complete waves are shown in the image above?
- 3. If the length from the generator to the pulley was measured at 66 cm, what is the wavelength?
- 4. Why is it better to measure multiple waves and divide to find wavelength rather than measure one single wave?
- 5. What happens to wavelength when frequency increases?
- 6. What happens to wavelength when frequency decreases?

Science T3 Y11 P4.13 Mainstream Electromagnetic waves



Science T3 Y11 P4.13 Mainstream Electromagnetic waves- Required Practical - Infrared radiation

<u>Aim</u>

Investigate how the amount of infrared radiation **emitted** (given out) by a surface depends on the nature of that surface.

In this investigation you are finding out which type of surface emits the most infrared radiation:

- Dark and matt
- Dark and shiny
- Light and matt
- Light and shiny

Method

- 1. Place Leslie cube on a heat proof mat.
- 2. Once the kettle has boiled, fill the Leslie cube with water.
- 3. Hold the infrared thermometer 5cm from the first surface
- 4. Record the temperature
- 5. Repeat the experiment three times on each surface and calculate mean for each surface.

Independent variable: surface

Dependent variable: temperature of the air (infrared radiation emitted)

Control variables: Temperature of the water inside, the distance between the cube surface ad the infrared thermometer



In this investigation you are finding out which type of surface absorbs the most infrared radiation:



Method

- 1. Fill a black and a silver can with water from the tap.
- 2. Take the temperature of the water in each can
- 3. Place the infrared thermometer 5cm from the cans
- 4. Leave for at least 10 minutes
- 5. Record the temperature of the water in each can and calculate the rise in temperature

Independent variable: surface of the can
Dependent variable: Temperature increase of the water (infrared radiation absorbed)
Control variables: Temperature of the water inside, the distance between the cube surface ad the infrared thermometer

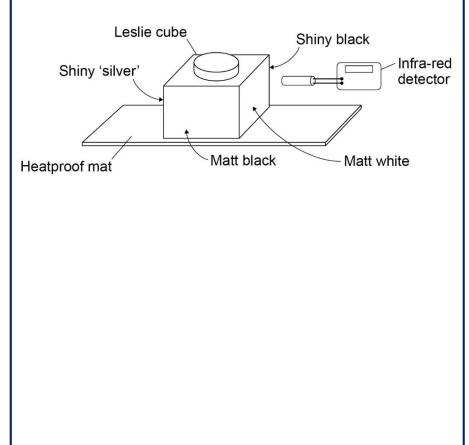
Conclusion

Black matt surfaces absorb and emit the most infrared radiation.

White/silver and shiny surfaces are poor emitters and poor absorbers of infrared radiation

Science T3 Y11 P4.13 Mainstream Electromagnetic waves- Required Practical – Infrared radiation

1. Describe how you could use the equipment below to investigate the emission of infrared by different surfaces.



1. A student was investigating the amount of infrared radiation absorbed by water in cans with different surfaces.



Name the... Independent variable:

Dependent variable :

Control variables :

- 2. What kind of surfaces are the best emitters of infrared radiation?
- 3. Why does the water in the silver can heat up less than the black can?

Science T3 Y11 P4.15 Mainstream Electromagnetism

 Magnets Have two poles - north and south. Opposite poles attract Same poles repel Same poles repel Same poles repel Same poles will repel each other (e.g. N-N or S-S) Deposite poles will attract (e.g. N-S) Magnetism is a non-contact force – magnets do not need to be touching for effect to be observed. Magnetic materials: only iron/steel, cobalt and nickel are magnetic. 	 Magnetic Fields Magnetic field = the area surrounding a magnet where the force will act on another magnet or magnetic material. Magnet field is strongest at the poles where the field lines are closest together. Field lines always go away from magnetic north and towards magnetic south. Earth's Magnetic Field Earth produces a magnetic field. Magnetic compasses use this to help navigation. The core of the Earth is made of iron (magnetic). 	 Electromagnetism When a current passes through a wire, a magnetic field is produced The direction of the field can be found by the right hand thumb rule curl the fingers of the right hand around the wire and point the thumb in the direction of the current (+ to -) The direction of the circular field is shown by the fingers Strength of magnet can be increased by increasing the current When the current is switched off, the magnetic field is lost Coiling the wire will form a solenoid.
 Types of magnets Permanent magnet Produces its own magnetic field. Magnetism cannot be turned on or off. Induced magnet Induced magnet = a material which becomes magnetic when placed in a magnetic field. Induced magnets only attract other materials and lose magnetic field. when removed from the magnetic field. 	 Plotting Magnetic Field Lines A magnetic compass can be used to plot and draw the magnetic field lines around a magnet. You need to be able to describe this method! Place the bar magnetic in centre of paper. Place a plotting compass at one end of the magnet. Put a pencil dot at the place the compass arrow is pointing to Move the compass to line up the tail of the compass needle to the dot you just made. Repeat until you reach the other end of the magnet 6. Join the dots using a line – this is the magnetic field line. Mark on the direction the arrow pointed – it should run 	 Junce of the current passing through wire Add an iron core Increase the current passing through wire Electromagnets Are induced magnets (can be turned on and off) Uses = electric motors, loudspeakers, electric bells, scrapyards.

N→S

Science T3 Y11 P4.15 Mainstream Electromagnetism

1.	Name the two poles on a magnet.	1. What is a magnetic field?	1. What is produced when a current flows through a wire?
2.	What will like poles do?	2. Where is the magnetic field the strongest?	
		3. Which direction do the field lines go?	2. How can you increase the strength of a magnetic field of a straight wire?
3.	What will opposite poles do?	4. Draw the magnetic field around a bar magnet.	
4.	Why is magnetism a 'non-	5. What is the Earth's core made of?	3. What is produced when you coil the wire?
	contact' force?	6. What can the Earth's magnetic field be used for?	4. How can you increase the magnetic
5.	Which metals are magnetic?	Ŭ	field around a solenoid? (3 ways)
	What are the two types of gnets?	1. Describe a method to plot the magnetic field of a bar magnet.	
	0		5. What is an electromagnet?
bet	Name two differences ween these two types of gnets.		6. What is meant by induced magnet?
			7. State 2 uses of electromagnets.

Year 11 OCR A Term 1 – People of the world

A. How	can we measure development	?	В.	B. What has caused uneven development?			E.	What is Nigeria like?		
Life expectancy	The average lifespan of so	The average lifespan of someone born in that country		l resources				eria's environmental,/ political/ economic		
Birth rate	Number of live births per 1	000 per year				lean, safe water		text		
GDP per capita	An average of the national gross domestic product per person per year in \$		Colonialism		country and	One country goes into another country and claims they are in power. They can steal their raw materials.		Nigeria is an EDC in west Africa. It borders Niger to the north and Benin to the west. Nigeria lies on the Atlantic Ocean.		
Literacy rate	Percentage of people over and write	r the age of 15 who can read	Industr	ialisation	and increas	re built, increasing trade ing economic	 Nigeria has a tropical climate in the South (near the Niger delta) and semi-desert 			
Death rate	Number of deaths per 100	0 people per year			developmei			climate in the North.		
HDI	Measures life expectancy, capita. Scored 0-1, 0 is low	education and income per v.	Trade			or unfair. Helps a country eir economy.		Nigeria was colonised by the UK and became independent in 1960 It has high levels of international migration		
Internet users	Percentage of people who	have access to the internet	Climate	е		mate (too hot or too cold) ustry and affect health		due to jobs in the oil industry		
А.	How can we measure develo	pment?				usity and ancer health		Agriculture in Nigeria provides a stable food supply for much of West Africa		
	POSITIVE	NEGATIVE						Nigeria has had a stable government since		
Life	Shows condition of	Does not consider political	C.	The differ	ent types of aid	I		2015		
expectancy W	healthcare and quality of services	factors such as war	Aid		When a country or organisation gives		What has enabled Nigeria to develop?			
Birth rate	Birth rate Shows development of healthcare (e.g., contraception) Does not consider how long babies survive in the country				resources to another country (e.g. Money, products or technologyp		• With a population of 182 million,			
			Bi lateral aid International aid			given by one country to	Nigeria has the largest population of			
GDP per capita	Shows how wealthy a	Very small/ large populations			another. Often has 'strings' attached.		any African country.			
	country's population is (quality of life)	can disrupt data (e.g. China)	Multilat		Given by many different countries or charity organisations (e.g. Oxfam, red cross)		 Nigeria has grown mainly through the export of raw materials such as oil, oil palm and cocoa. They export In 2014 it has the highest GDP in 			
Literacy rate	Shows the quality of education received in a country	Does not consider other factors that disrupt education (e.g. water collection)	Short-te	erm aid	Aid given to support a country following a disaster (e.g. after an earthquake)					
Death rate	Shows the quality of healthcare/ disease/ food/water	Can be disrupted if country has an elderly population (Japan)	Long-te	:	Aid given over a long period of time to support a country's development (e.g. Oxfam goat aid)			Africa		
HDI	Uses a combination of measures= more accurate					Factors contributing to I	Nigeri	a's economic growth		
Internet users	Shows the development of	Does not consider the quality			Imports	Goods coming into a count	ry			
	infrastructure in a country	of this infrastructure			Exports	Goods leaving a country				
D. How does	aid promote and hinder devel	opment?			International	When one country (e.a. U	K) fun	ds businesses in another country (e a		
Promote		it's healthcare, communications ogy from more developed nations after a natural disaster.		lso	International investment When one country (e.g. UK) funds businesses in another country (Nigeria)					
Hinder	Aid can hinder a country's deve	lopment by encouraging depend ations. If a government is corrupt.			Population structure	The 'make-up' of the popu	llation	. E.g how old or young/ males and females.		
	in aid could be used in the wror	spend money buying goods from	aid can put a		Employment structure	How the workforce is divi	v the workforce is divided up (primary/ secondary/ tertiary)			

Year 11 OCR A Term 1 – People of the world

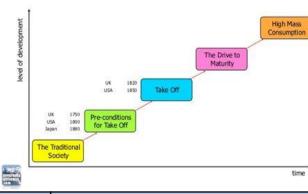
Α.	How	can we measure development?		В.	What ha	at has caused uneven development?			What is Nigeria like?	
Life expe				Natur	al resource	es		Nigeria's environmental,/ political/ economic context		
Birth rate				Color	ialism					
GDP per	capita									
Literacy r	ate			Indus	trialisation					
Death rat	e									
HDI				Trade)					
Internet u	isers			Clima	ite					
A.		How can we measure develo	pment?							
		POSITIVE	NEGATIVE							
Life				C.	The diffe	erent types of aid	d	Wh	at has enabled Nigeria to develop?	
expectan				Aid						
Birth rate				Dilati						
GDP per	capita			BIIAte	eral aid					
				Multila	ateral aid					
Literacy r	ate			Short	-term aid					
Death rat	e			Long-	term aid					
HDI			x		r					
							Factors contributing to I	Nigeri	a's economic growth	
Internet u	isers					Imports				
D. Ho	w does	aid promote and hinder deve	lopment?			Exports				
						International				
Promote					investment					
Hinder						Population structure				
						Employment structure				

Where is Rio?

Rio de Janeiro is located in South America. It is located in south Brazil. It borders the Atlantic Ocean.

Why is Rio de Janeiro a global city? G.

- Until 1960 Rio was the capital of Brazil however this has not changed to Brasilia. Rio is still very important.
- Brazil is in an Emerging Developing Country. This means that it is experiencing rapid economic growth
- Rio is a mega-city. This means it has a population of over ٠ 10 million people.
- The exact population of Rio is unknown however it is over 18 million.
- Rio is the cultural capital of Brazil with an annual carnival and over 50 museums. It is also a UNESCO World Heritage Site.
- In 2014 the world cup took place in Rio ٠
- In 2016 Rio hosted the Olympics. •



F.	What is Rostow's model?	Heritage Site which means that it should be p
Human Influenc e	 Currently Nigeria is in stage 3. This is where secondary industries dominate. In the future Nigeria may develop to stage 4 They will do this by becoming more self-reliant by improving education. This will lead to increase in tertiary employment such as nursing and IT support. 	environmental harm. Crime and government: Due to over populat many jobs which means that many people m crime. As a result, gangs often rule over the f have been sent in to pacify these slum areas with the aim to improve quality of life for per-
	Positive impacts of urbanisation	Negative impacts of urbanis

Year	<u> 11 OCR A Term 1 – People of the world</u>	К.		
Н.	Where do people in Rio come from?	Sustainable Management in Rio- Transport	Due population growth, means that the use of cars has grown by 40% in the last 10 years.	
• F • F • F • F • F • F • F • A • N • N	Aigration accounts for 65% of urban growth in Rio le Janeiro. Largely people come from Europe, in particular Portugal because they speak Portuguese in tio. However, large numbers of people come from other parts of Brazil including the Amazon Basin because here are better jobs, higher income, improved medical care and education. People also travel from other countries in South America- Argentina/ Bolivia due to the cultural opportunities in Rio. Many people come from the USA and UK. These re largely people who are highly skilled and are		They have expanded the public transport system which is a metro that runs under the bay and connects various parts of Rio. More and more people are using the metro system and buses; however, they are no extremely busy as there aren't enough services to go around. They have also put tolls into the city centre, this means that traffic is reduced because people don't want to pay. Lastly, they have made busy roads one way in rush hour. Car use has reduced slightly, however many still use cars for their own safety.	
i • N t	ttracted due to the growing secondary and tertiary ndustry (specifically in oil exploration). Many people come from China and Japan, this is because Rio de Janeiro has a growing finance and banking industry which is well paid. How has migration influenced the character and way of life	Sustainable Management in Rio- Housing	Hillsides were secured and new health and education facilities were built in these areas, however the budget of US\$1Billion is probably not going to be enough to do this in every Favela. It has also led to rent rising and many people can't afford to live in their old homes. As we saw before, the largest problems concerning waste disposal are in the Favelas. Many are built on steep slopes and have few proper roads meaning that it is difficult for waste collection lorries to get through. Imagine if rubbish in Swindon wasn't collected every week – it would pile up outside our houses, attracting rats and foxes. It would also really smell. The waste in Rio does the same, it builds up and pollutes the water system spreading diseases like Cholera. To reduce this, a power plant has been set up near the University or	
are citie Her env Crin man crin hav	within Brazil? acabana Beach: The beaches in Brazil are stunning and so the natural surroundings. Rio is one of the most visited es in the southern hemisphere. It is a UNESCO world itage Site which means that it should be protected from ironmental harm. The and government: Due to over population, there are not by jobs which means that many people must resort to ne. As a result, gangs often rule over the favelas. Police the been sent in to pacify these slum areas (make peaceful) in the aim to improve quality of life for people living there.	Sustainable Management in Rio- Waste		
	Negative impacts of urbanisation		Rio which uses methane gas from rotting rubbish to produce energy. This is more	
• Du ları • No squ • On	% of people living in favelas do not have a job. e to unemployment there's not much tax being paid by a ge proportion of the population. t enough houses – 40% of population live in favelas (illegal latter settlements). ly 50% of people have access to healthcare. pollution – 5,000 deaths/year		environmentally friendly than a lot of electricity production, however it does release some methane which is a greenhouse gas. It consumes 30 tonnes of rubbish a day (that's 2 busses) and produces electricity for 1000 homes. However, because of the methane gas it can be a stinky business.	

Where is Rio?	Year 11 OCR A Term 1 – People of the world	К.		
Rio de Janeiro is located in South America. It is located in south Brazil. It borders the Atlantic Ocean.			Due population growth, means that the use of c has grown by in the lastyears.	
 G. Why is Rio de Janeiro a global city? Until 1960 Rio was the capital of Brazil however this has not changed to Brasilia. Rio is still very important. Brazil is in an Emerging Developing Country. This means that it is experiencing rapid economic growth Rio is a mega-city. This means it has a population of over 10 million people. The exact population of Rio is unknown however it is over 18 million. Rio is the cultural capital of Brazil with an annual carnival and over 50 museums. It is also a UNESCO World Heritage Site. In 2014 the world cup took place in Rio In 2016 Rio hosted the Olympics. 	 Migration accounts for 65% of growth in Rio de Janeiro. Largely people come from Ee, in particular Portugal because they speak Pe in Rio. However, large numbers of people come from other parts of Brazil including the because there are,, improvedand education. People also travel from other countries in South America Many people come from the USA and UK. These are largely people who are and are attracted 	Rio- Transport	They have expanded the	
High Mass Consumption The Drive to Maturity USA 1820 USA 1820 Take Off	 due to theindustry (specifically in oil exploration). Many people come from, this is because Rio de Janeiro has a growingindustry which is well paid. 	Sustainable Management in Rio- Housing	Hillsides were secured and new s were built in these areas, however the budget of US\$1Billion is probably not going to be enough to do this in every Favela. It has also led toand many people can't afford to live in their old homes.	
USA 1900 Japan 1980 The Traditional Society	I. How has migration influenced the character and way of life within Brazil? Copacabana Beach: The beaches in Brazil are stunning and so	Sustainable Management in Rio- Waste	As we saw before, the largest problems concerningare in the Favelas. Many are built onand have	
F. What is Rostow's model? Human Influenc e • Currently Nigeria is in This is where secondary industries • In the future Nigeria may develop to • They will do this by becoming • This will lead to increase insuch as nursing and IT support.	are the natural surroundings. Rio is one of the most visited cities in the southern hemisphere. It is a UNESCO world Heritage Site which means that it should be protected from environmental harm. Crime and government: Due to, there are not many which means that many people must resort to As a result, often rule over the Police have been sent in to pacify these slum areas (make) with the aim to improve quality of life for people living there.		fewneaning that it is difficu forlorries to get through. Imagine if rubbish in Swindon wasn't collected every week – it would pile up outside our houses, attracting It would also The waste in Rio does the same, it builds up and pollutes the wate system spreading To reduce this, ahas been set u near thewhich uses from	
Positive impacts of urbanisation • Employment opportunities in • Good infrastructure (• Better • More jobs in sectors	 Negative impacts of urbanisation 40% of people living in fs do not Due to unt there's not muchbeing paid by a large proportion of the population. Not enoughs - 40% of population live ins (illegal squatter settlements). Only 50% of people have access to he. 		environmentally friendly than a lot of electricity production, however it does release some methane which is a greenhouse gas. It consumes of rubbish a day (that's 2 busses) and produces electricity for 1000 homes. However, because of the it can be a stinky business.	
	 Air pion – 5,000 deaths/year 			

	3. The S	panish Empire 1528-1555	Dizerre's enneel to		Pizarro ai	nd the Conquest of the Inca Er	npire	Revolt of the Incas 1536	
9			Pizarro's appeal to the Spanish King	Date	Event			The Spanish saw Manco as a	
		Pizarro's Second	Charles I	Dec 1518	Smallpox e	epidemic in Haiti.		puppet king who would rule on their behalf. When Manco	
	1	Expedition In 1	1528 Pizarro eturned to Spain	Sept 1520	First cases	of smallpox in Mexico		escaped from the Spanish he	
111175/2			ith evidence of Inc	a 1525-1527	-	spreads along the Caribbean coast.		assembled an army and attacked the base at Cuzco.	
Pizarro – First Exp	edition	Explores Camps With men, Camps With and are expedition. Prescue rescue expedition. Prescue rescue expedition. Prescue rescue expedition. Prescue rescue we comed by Lla land off or Panama B	wealth, including Llamas, silver and	1527	returning to help his people. 1529 Civil War breaks out between Huascar and Atahuallpa (Huayna Capar's son)		om smallpox after	The Seige of Cuzco 1536-1537 -10,000 Inca warriors faced 150 Spanish and 1000 native allies. -The Inca warriors broke into	
Pizarro was with Ba		cost. Juan River. excue evidence of the second seco	old. aving been refused ermission to launcl	1			tahuallpa (Huayna		
they reached the Pizarro was impre		at	third expedition by		Huascar is	captured and killed. Atahuallpa ta	kes over Cuzco.	town , burning buildings to try to	
Cortes and his su	· .		e governor of anama, he appeale	d Nov 1532		of Cajamarca – Pizarro's men hid		drive out the Spanish, but the Spanish were able to put the fires	
Mexico. Tales of vast wealt	th in Peru	Anna Contraction C	Charles I.		-	rca. When Atahuallpa's men enter a priest who showed them a bible.		out.	
encouraged Pizarro		Ruiz and Panama and PIZ Amagro equip a third Ruiz and captures a native raft.	zarro received a cence, the			on the floor which was the signal n		 The Spanish used their cavalry to attack the Inca warriors. 	
own succes		Salis south and crosses a silver and silver	apitulacion de oledo, in July 1529		men to att	tack and they took Atahuallpa prise	oner.	-The Spanish captured the fortress of Sacsahuaman from the Incas,	
November 1524 expedition		equator to ask for PANAMA	uthorising him to					which the Inca army then	
Not a success. Only	y reached	Interpreters. Total of gold far to the	onquer Peru.	July 1533		a promised to fill his prison with tre release. Although he did this, the		besieged. -The siege ended when Spanish	
Columbia before ba lack of food and a		south. San Juan River		_		him to death. On 26 th July he was		forces exploring Chile returned.	
hostile natives forc	ed Pizarro	Governing the Empire		1533	Manco mad	e puppet ruler of the Inca Empire.		 Manco withdrew and established a separate kingdom which lasted 	
to turn bac The mangrove swar		The Spanish needed to find a way to govern the discovered territories to re				1		until 1572.	
any idea of estab	lishing a	and stability. They needed to make sure basic essentials were available, lap place, conquistadors didn't fight among themselves and ensure daily life w		Founding of La Pa	-				
settlement t	.00.	effectively.				he end of the revolt and to rerall authority in the New World,	Growth of Seville All goods importe	d to Europe had to go through	
Impact of	f	Bartolome de las Casas – was a priest that tried to encourage the fair trea	atment of	not the conquistador	s.		Seville. Merchants	s travelled from all over Europe to	
Gold and		natives in the New World. 1527 he wrote a book 'A Short Account of the D	Destruction of	and the audiencias (courts) were based here			buy and sell good trade with the Ne	l goods. This gave Spain a monopoly over the New World.	
Silver on		the Indies'.		over the silver mines					
Used to make 8 si	ded coins	The New Laws: It was made illegal to enslave natives.	ŀ	Discovery of silver in Bolivia and Conquistador Revolt in Peru 1544		Conquistador Revolt in Peru 1544	L The Slave Trade Due to the number of deaths of natives in the New		
 – 'pieces of eight accepted in Europ 	· · ·	The amount of tribute that could be collected was limited.		Mexico		A serious revolt took place as the		ld, there was a labour shortage.	
high silver cor		 Encomiendas had to be passed back to the Spanish government on th the encomendero. 		By 1550 silver had been di Potosi (Bolivia) and in Gua		encomenderos were unhappy with the New Laws. This revolt was led by Gonzalo	directly get slaves	of Tordesillas, Spain could not from W. Africa.	
The Crown took	25% of	The role of the Viceroys:		Zacatecas (Mexico). Some back to Spain but most wa	was sent Pizarro, brother of Francisco Pizarro. It was a success and Gonzalo ruled over the			ts could get licences (asientos) to	
bullion coming int		The Council of the Indies appointed two viceroys to govern Spanish territor	ories: one in	conquistadors. Large mining towns develo		Inca territory for 2 years. The arrival of a Spanish army resulted in his		b the New World. Licences sold to the who could then buy from Portuguese sell to merchants in the New World.	
75% of wealth v	vent to	Mexico city and one in Lima (Peru). They acted on behalf of the government.		workers for the mines. Colonisation of the New W		execution and the restoration of Spanish authority.	-		
Spanish mercha		Justice was managed through the audiencias (courts), with judges who we	ere	increased as adventurers, speculators and their emp		The revolt raised the issue of control. Spain needed to govern its territories and control the rebellious conquistadors and	Casa de Contrata	acion (House of Trade)	
conquistado		independent of the viceroys.		in search of wealth. 25% of silver shipped to Sp	ain went	encomenderos. This led to the founding of La Paz in 1548.	Established in 1503 by Isabella. Collected colonial		
European trader prices for the w	· · ·	The role of the encomienda system: This was imposed officially across the Spanish Empire.	L	straight into the treasury.				voyages of exploration and trade Iformation on new lands and trade	
Spanish merch	· ·	An encomienda was land granted to a Spaniard, who was then called an er	encomendero.	Pirates and Private	ers		routes. Licenced o	captains of ships.	
High prices led to	inflation	He could demand tribute from natives. In return he was responsible for the protection and their conversion to Christianity.	heir	Spanish treasure was	a target for Pi	irates and	In theory, no Spar the approval of th	niard could sail anywhere without ne Casa.	
– workers dem				Privateers (funded by	government/	monarchy).			
higher wages in	i Spain.	Significance of the New Laws 1542: Laws introduce to improve the rights of native people, but encomenderos	s opposed	The ships were easy t routes across the Atla		took well-defined and predictable	Council of the Inc		
Charles I invested the military – not	· ·	them and the viceroy of Peru refused to implement them.	:		tlantic. 42-46) meant Spain had to adapt ships and deal with French privateers.			nd based in Spain. Controlled all ng the New World. Messages	
and busine		Revolts in Peru: the most serious in 1544 had to be put down by the Spanis government and led to a temporary halt in the Spanish conquest of the Ne					received from Viceroys would be discussed and		
Spanish were g	getting	1550. Although forced to suspend the laws, Charles I insisted encomiendas be pa	assed back to	Galleons patrolled	the sea	Treasure fleet system		e King. Decisions made were sent to the Viceroys. This was Spain's	
wealthy by findin	g bullion	the crown on the death of an encomendero. Natives continued to be explo		routes and started	carrying	developed: the Tierra Firme	way of trying to m the New World.	naintain control over its empire in	
instead of making and selling		New World.		treasure as they w armed.	ere well	(went to S. America) and the New Spain (went to Mexico).	the new world.		
	-								





Year 11 Religious Education: Crime and Punishment



What we are learning this term: B. Christian beliefs about forgiveness				C.	Aims of punishment		
B. Why C. Aims	stian beliefs about forgiveness do people commit crime? s of punishment	1	a father I	of the forgiving father- Christians believe that God loves us like oves his son and will forgive all of our sins if we are truly sorry, we should always forgive.	1. Retributio n	A punishment done with the intention to punish and cause the offender to pay for their wrongdoing. It also means the aim is about	
D. Туре А.	A. Can you define these key			Parable of The Adulterers Woman- It is only the Lord who can judge us. God does not forgive evil but the individual as we have a possibility of changing.		justice for the victims and intends to cause the criminal the same pain or inconvenience that their crime caused someone else.	
	words?	3		s should forgive people no matter what they have done and no	2.	Punishment done with the aim to put the	
Key word		ey definition matter "to fo		ow many times. This is because in bible it said that Jesus said, e 7x70", referring to all the years Hebrews spend in slavery in	Deterrenc e	criminal off reoffending. The punishment is devised to be so off-putting the would-be criminal would hopefully not want to risk doing	
Atone	Make amends	4	Matthew	ey should sill forgive them for it. 6:15- "But if you do not forgive others their trespasses, neither Father forgive your trespasses." this means that Christians will		the crime. This could include severe punishments like life imprisonment or the death penalty.	
Reconcilia n	The restoration of relationships.			brgive others because otherwise they will not be forgiven by	3. Reformati	Punishment done with the intention of changing the criminal into a better person who	
		5		iation- restoration of friendship or relationship. Christians need	on	then goes on to lead a life free of crime.	
Reformat	on To change someone's behaviour for better.			onciled with God so that they could be reunited with Him in Jesus died on the cross to allow the reconciliation to happen.	4. Protection	A punishment done in order to protect society from the criminal, as they are considered	
			D. Why do people commit crime?			dangerous. This might include prison, where they are locked away from society.	
Retributio	n To get your own back.	Poverty		If you have no money for the basics you may be driven to			
To got your own baok.			crime such as theft out of necessity. Other times, pover leads to frustration against rich institutions who don't pa		Е.	Types of punishment	
Deterrend	e To put people off committing	Upbringing		and may cause crime such as shop lifting.	1. Prison	A punishment that takes away someone's freedom and keeps them locked up in jail. There are many different sentence lengths and it can vary hugely internationally. For example, in the UK, murderers spend an average of 17 years in prison for their crime, but could be released earlier than this. In some states in the USA	
Deterrent	crimes.			May cause crime as a person may see it as normal to commit certain acts and may never have been taught right from wrong. They may have grown up in areas with gangs and a culture of criminal behaviour, where it is celebrated and			
Executior	The carrying out of a sentence of death			respected rather than scorned.		life actually means life and the offender will die in prison.	
		Menta	al Illness	Mental illness such as schizophrenia could cause you to be violent if the voices tell you to, and your normal rational self is overridden	2.	Unpaid work, intended to be of social use, that an	
Corporal punishme	nt Punishment of an offender by causing him physical pain.	Addiction		Addiction to substances can be so overwhelming they impair usual inhibitions and cause you to do things you wouldn't usually do. People can steal to fund addictions.	Communit y service	offender is required to do instead of going to prison. For example, picking up rubbish in a park, paining buildings, paining street poles and lights, cleaning areas.	
Forgivene	ss To let go of anger and	Greed	ł	Some people are just greedy and want more wealth with less effort.	3. Corporal punishme	Punishment that uses pain. For example, flogging (with a whip or cane), amputation eg chopping off a hand for theft or branding. This punishment remains in parts of	
rorgivene	bitterness and to not hold a grudge against someone	Hate		Some are angry towards others as they are prejudiced and this causes the potential for violent crime.	nt 4. Death	Africa, the middle East, Asia and South America.	
Justice	who has wronged you Fair treatment.		Opposition to injust law Some crimes are done in protest to unfair laws. For example, it may have been a crime for women to go to school, but that didn't stop Malala. Sometimes violent protest can happen in response to injustice. Eg the riots in South Africa against apartheid.		4. Death penalty	When a government/ state takes the life of a criminal as a punishment for their crime. Usually reserved for serious crimes such as murder. However, you can be executed in Saudi Arabia for sexual relations between adults of the same sex, rejecting the prophet or committing adultery.	

G

What we are	learning this term:	B.	Christia	an beliefs about forgiveness	C.	Aims of punishment
A. Christian B. Why do p	beliefs about forgiveness people commit crime? punishment	1			1. Retributi on	
word		3			2. Deterren ce	
Key word Atone Reconciliati	Key definition	4			3. Reformat ion	
on		5	D.		4. Protectio n	
		Pover		Why do people commit crime?	E.	-
Retribution			-		E. 1. Prison	Types of punishment
Deterrence		Upbri				
Execution		Menta Addic	l IIIness		2. Communit y service	
Corporal punishment		Greed			3. Corporal punishme	
Forgiveness		Hate			nt	
Justice					4. Death penalty	
JUSIICE		Oppo: unjus	sition to t law			

Year 11 RE Christianity quotes Crime and punishment					
Leviticus 24:19-20 Moses taught: "If anyone injures his neighbour, whatever he has done must be done to him: fracture for fracture, eye for an eye, tooth for tooth. As he has injured, so he is to be injured".	We all need forgiveness, which Jesus showed when he met a crowd that wanted to stone a woman to death for adultery. If any one of you is without sin, let him be the first to throw a stone at her.				
Christians are told to respect the authority of the state, which means keeping to the law and accepting	John 8:7 Hebrews				
the punishments.	In the same way, he sprinkled with blood the tabernacle and all the vessels used				
"Obey the government, for God is the one who put it there. All governments have been placed in power by God."	in worship. According to the Law, in fact, nearly everything must be purified with blood, and without the shedding of blood there is no forgiveness.				
Romans 13:1					
Genesis 9:5-6 From his fellow man I will require a reckoning for the life of man. "Whoever sheds the blood of man, by man shall his blood be shed, for God made man in his own image."	Matthew 5:38-39 "You have heard that it was said, 'An eye for an eye and a tooth for a tooth.' But I say to you, Do not resist the one who is evil. But if anyone slaps you on the right cheek, turn to him the other also.				
Whatever measure you deal out to others will be dealt back to you. Matthew 7:2	Ephesians 4:32 Be kind to one another, tender hearted, forgiving one another, as God in Christ				
	forgave you.				

Year 11 RE Christianity quotes Crime and punishment	
Luke 6:27	Luke 6:37
"But I say to you who hear, Love your enemies, pray for those who persecute	
you,	"Judge not, and you will not be judged; condemn not, and you will not be condemned; forgive, and you will be forgiven;
Romans 3:23	Ecclesiastes 7:20
For all have sinned and fall short of the glory of God	
	Surely there is not a righteous man on earth who does good and never sins.
Exodus 22:3	Romans 12:19
But if the sun has risen on him, there shall be bloodguilt for him. He shall	
surely pay. If he has nothing, then he shall be sold for his theft.	Beloved, never avenge yourselves, but leave it to the wrath of God, for it is written, "Vengeance is mine, I will repay, says the Lord."
' We glory in our sufferings for they build character' Romans/ new	'all sins are equal' new testament
testament	
Matthew 6:15	Matthew 18:21-22
But if you do not forgive others their trespasses, neither will your Father	Then Peter came up and said to him, "Lord, how often will my brother sin
forgive your trespasses	against me, and I forgive him? As many as seven times?" Jesus said to him, "I
	do not say to you seven times, but seventy times seven.

Year 11 RE Christianity quotes Crime and punishment					
Leviticus 24:19-20	We all needhere a crowd				
Moses taught:	that wanted to If any one of you is				
"If anyonewhateverwhatever	withoutaat him be the first toa				
done As he has	John 8:7				
injured, so he is to be".					
"Obey the for God is the one All governments have	Hebrews				
been placed in"	In the same way, he sprinkled with blood the tabernacle and all the vessels used				
Romans 13:1	in worship. According to the Law, in fact, nearly everything must be purified with				
	blood, and without the there is no				
Genesis 9:5-6	Matthew 5:38-39				
From his fellow man I will require a reckoning for the life of man. "Whoever	"You have heard that it was said, 'An eye for an eye and a tooth for a tooth.' But				
sheds, by man shall his	I say to you, Do not the one who is evil. But if anyone on				
for God made man in his own image."	the right cheek, to him the also .				
Whateveru. measures will beu.	Ephesians 4:32				
Matthew 7:2	Be to one another, tender hearted,				
	another, asyou.				

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If he has nothing, then he shall be sold for his theft.	Beloved, yourselves, but leave it to the wrath of God,
	for it is written, "I will repay, says the Lord."
'We glory in our'	'all sins are' new testament
Romans/ new testament	
Matthew 6:15	Matthew 18:21-22
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your trespasses	against me, and I forgive him? As many as seven times?" Jesus said to him, "I do
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1. Gross Profit			ement – Working with Suppliers			
	Explanation	There are five main factors at the heart of a relationship between a company and its suppliers:				
Gross profit	Gross profit is the difference between a product's					
	selling price and what it costs the business to	Quality	Suppliers must supply high quality products to businesses, suppliers will			
Casas anofit morain	manufacture/purchase.		struggle to maintain a good relationship with a company if they are not			
Gross profit margin	The percentage of gross profit made from the sales revenue for a product.		supplying good durable products. First and fore most suppliers must supply			
Gross profit margin	Gross profit margin = <u>Gross Profit</u>		high quality materials to businesses.			
calculation.	Sales revenue x100	Delivery	Suppliers must deliver on time to clients, there is little point supplying at the			
			right price and with the right product, if the product doesn't arrive on time.			
2	· · · · · · · · · · · · · · · · · · ·		Failing to deliver supplies on time can bring manufacturing to a halt or leave			
2. Net Profit	Margin		shops with empty shelves.			
There are three i	main types of production:	Availability	Suppliers must be available and able to cope with varying orders in a timely			
Type of	Advantages and Disadvantages		fashion and sometimes within a short timeframe.			
Production			Suppliers must be flexible and aware of the needs of their customers.			
Job Production	Advantages: Highly flexible; gives the customer	Cost	Cheaper supplies mean lower variable costs and higher profit margins.			
	exactly what they want.		Therefore, the price charged by a supplier will be a key factor in the			
	Disadvantages: High production costs. Skills may		relationship between a firm and its suppliers. Price to highly and firms may			
	be in short supply, making it hard for the business		look to alternative suppliers, price to low and firms may question the quality			
	to grow		of merchandise. Pricing is key to the relationship between supplier and firm.			
Batch	Advantages: Gain some cost advantages from	Trust	Trust is key for the relationship between firm and supplier. Most business			
Production	producing several items at onceyet still able to		transactions are on credit and not cash – therefore suppliers have to be able			
FIGUUCION			to trust that a firm will make a profit and be able to pay them back in cash.			
	offer customers the colour/size they want		tegy – Managing Quality within a Business			
	Disadvantages: May be limited scope for	Type of	Explanation:			
	automation, making production costs far higher	Quality				
	than with flow production. Not as flexible as job	Control				
	production.	Quality	Quality control is a system of inspection to try to make sure that customers			
Flow	Advantages: Can automate production fully,	Control	don't experience a poor-quality product or service. Such controls may			
Production	making it highly cost effective (which should be		include Factory Inspectors at the end of a production line checking the			
	good for customers as well as suppliers). Many		quality of a product			
	customers value consistency, and flow will	Quality	Quality Assurance describes the system put into place by a company to			
	provide an identical product each time.	Assurance	assure quality within the production system. Every member of staff will have			
	Disadvantages: Likely to be expensive to set up		responsibilities to quality assure products. Over time this should lead to			
	and inflexible to use; could be a disaster if a		quality products as people become better at their roles.			
	product life cycle proves much shorter than	Quality	Quality culture means the general attitudes and behaviours among staff			
	expected.	Culture	within a workplace is focussed on high quality production. Quality culture			
	Lacks flexibility in terms of meeting individual		describes motivated, punctual, diligent and invested employees who care			
			about the business and strive to improve it.			
	customer needs.					

GCSE Business. Paper 2.

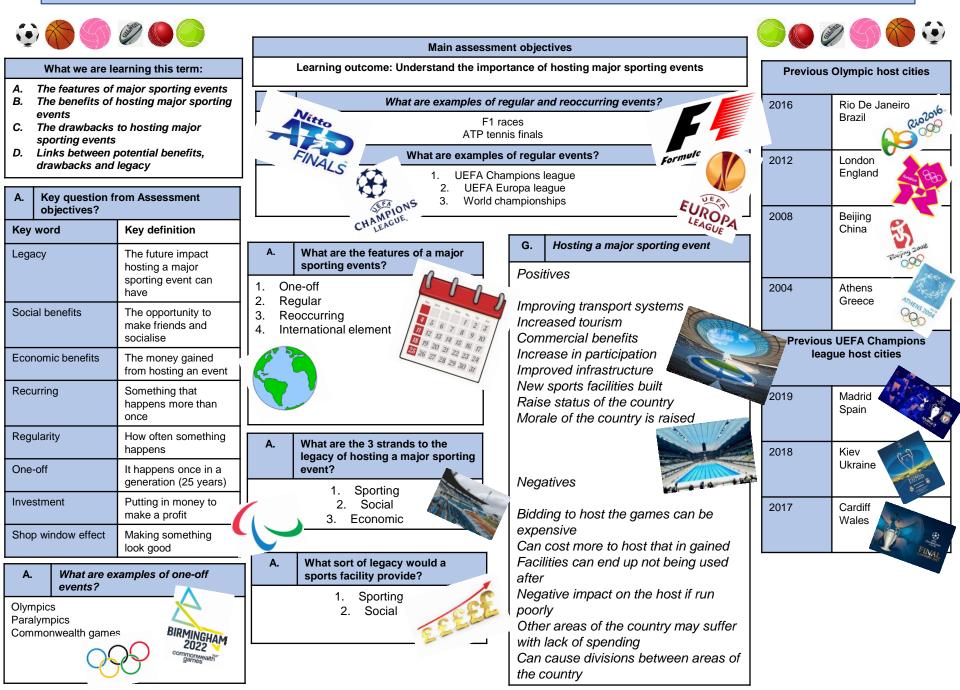
9. The Sales Process	
Term	Definition
Customer Engagement	The attempt to make a customer feel part of something rather than an outsider.
Customer Feedback	Comments, praise or criticisms given to the company by its customers
Post-Sales Service	Service received after the purchase is completed because something has gone wrong or as a way of promoting customer engagement
Product Knowledge	How well staff know all the features of the products and service issues surrounding the products.

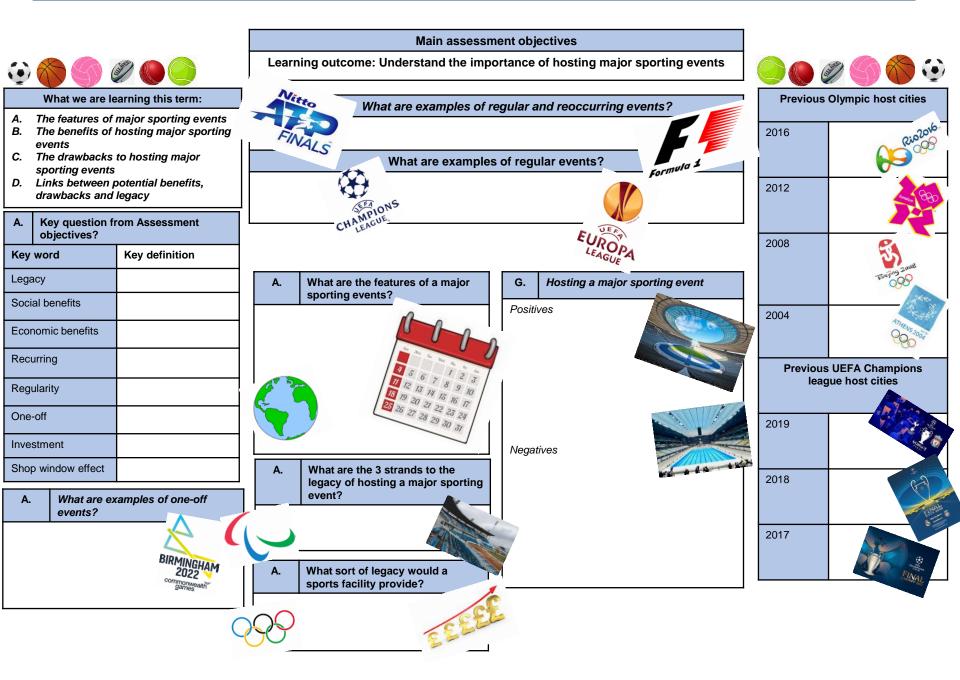
9. Customer Service

Great Customer Service is pivotal to any successful business, but there is far more than that to the sales process. To succeed in sales, a business must make sure it provides:

Component of Customer Service	Term
Product Knowledge	Customers expect that staff will be sufficiently well trained and well-motivated to have good knowledge of the products and services being offered. In order to ensure staff, have good product knowledge, certain things are essential: Good Training – if businesses provide good training to staff, then staff will be knowledgeable about products and therefore will be able to improve the customer experience Loyal Staff – The longer staff stay working in a job the better they become. If staff only stay three to six months, they will never develop a rich understanding of the products and services that the business provides. Well managed businesses pay fairly and treat staff with respect. Committed Staff – Committed and enthusiastic staff are crucial to the smooth running of any business. This is affected by the quality of recruitment, the standard of training and the overall culture that exists within the company's workforce.
Speedy and Efficient Service	Good customer service is designed for the customer not the company. Efficient service: Gets products to customers exactly when you want them Gets products to customers in good condition If there is anything wrong - it will be sorted out as soon as possible and considerately
Customer Engagement	In the world of social media, it becomes possible to try to keep customers engaged with the business on a regular basis. Companies engage customers in a variety of ways: E-Mail Social Media (Facebook and Instagram) Post Text Television/Web advertisements. It is vital that customers feel up to date and informed about any product innovations
Responses to Customer Feedback	How companies respond to customer feedback is vital, providing great customers service where people feel listened too ensures customers continue to come back and buy products from the business. It can cost a lot of money to persuade new customers to come advertising is expensive and it's affects are hard to judge. Building up a reputation for responding to customer feedback can travel by word of mouth and this is much cheaper.

Year 11 Cambridge National- Contemporary issues in sport- Term 3





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Year 11 PRODUCT DESIGN Term 4



A. Finite Resou	irces	What we	e are learning thi	is term:	D. Electronic Sy	/stems	E.	Metals & Alloys	
Finite resources will ev		A. Finite Resources B. CAD			Input / Sensor		Metals are extracted from natural ore.		
	,	C. Renewable D. Electronic Systems E.		•				Non-ferrous	
-	oal			Light-dependent resister (LDR) –		Ferro			
Advantages	Disadvantages	C.	Renewable I	Resources 🚳	changes with light	Canil	Low-carbon steel (mild steel)		Aluminium
Produces high amounts of	Produces C02 when burned	Availabl	le naturally		Thermistor	ANCO ISI	Cast li	ron	Copper
energy	Natural land domogo from		W	ind	 changes with temperature 		High-c	arbon steel (tool	Tin
Enough to last 100s of years	damage from mining	Advant	ages	Disadvantages	Piezoelectric Sensor		steel)		Zinc
Natur	ral Gas		nstantly ilable	 High start up Low wind = no 	 changes with sound / electric energy 	\bigcirc	Contai	in iron and are	Do not contain iron,
Advantages	Disadvantages		running cost	energy	, cicculo chergy			etic, prone to	not magnetic. Do not rust.
Emits less CO2	Highly flammable			Eyesore	Process / Cont	rol Device	Alloys		1031.
UK has shale deposits	Pollutes water		S	olar	Switch	s. 1. 1	-		
	Dil	Advant	ages	Disadvantages	- turn on and off power			are mixtures of two e its properties or	o or more metals to aesthetic.
Advantages	Disadvantages	bills		High start upNo sun = no	Resistor		Brass	Stainless ste	el High-speed steel
Produces high amounts of	 Creates air pollution 	• Clea	an resource	energy • Eyesore	- to limit flow of current		F. Surface Treatments of Timber		ments of Timber
energyEasy to store	Large impact on nature			idal	Microcontroller - programmable		Used to improve their appearance and to enhance certain properties such as durability		
Nuc	clear	Advant	ages	Disadvantages	decisions	the state	Paint		Oil or
Advantages	Disadvantages		g lasting an resource	High start upUnknown impact	Outpu	ıt	T Girlt		Wax
No harmful gases are	 Power stations close after 40yrs 		Hvdro E	lectricity	Speaker - releases sound		Wood	R PARTANE	Varnish
released More efficient 	 Disposal is difficult & costly 	Advant		Disadvantages	Motor		Stain		
B. CAD	I		pollution ues can be	Affects wildlife through flooding	- releases movement			Tanalising / Pr	essure-treated
Computer Aided Desig	IN		ned quickly	Eyesore	Light-emitting diode			rvatives can be ad	ded to extend the otecting it from rot,
Advantages	Disadvantages		Bio	mass	(LED)	S Dan		and insects.	occound it norm for,
 Can make quick and easy edits Can be easily shared High quality 	 High start up costs Need training Computer issues e.g. freeze 	use • Rep	ages 2 released d by plants blacements be grown	 Disadvantages Creates pollution when burned Takes up land needed 	- releases light				sure-treated timber will no need to paint, s

and the second				Year 11 PRODUCT	DESIGN Term 4		1 Ali		
A. Finite Resour	rces	What we are learning this term:		D. Electronic Sys	E. Metals & Alloys				
Finite resources will			A. Finite Resources B. CAD C. Renewable D. Electronic Systems E.		Input / Sen	Metals are extracted from			
Co	al			face Treatments			Ferrous		Non-ferrous
Advantages	Disadvantages	C.	Renewable F	Resources 🚳	=				
•	•	Renewa	able resources	are		14 0 M			
			w	ind	=				
•	•	Advanta	ages	Disadvantages					
Natura		·		•	=	Qa	magnet	iron and are ic, prone to	Do not contain iron, not magnetic. Do not
Advantages	Disadvantages	·		•			rust.		rust.
:	:		S	blar	Process / Contro	ol Device	Alloys		
		Advanta		Disadvantages	=	N 🛉 💰			to or
0		·	uges	•					
Advantages	Disadvantages			•					
•	•			•			F.	Surface Trea	tments of Timber
•	•		Ti	dal			Used to		and to
Nucl	lear	Advanta	ages	Disadvantages	=				_ such as
Advantages	Disadvantages	:		·	Output				
•	•		Hydro F	lectricity	=				TR. ALLER
•	•	Advanta		Disadvantages					a to a second of
		•		•	=			Tanalising / P	ressure-treated
B. CAD		. —				62.56.5	Preserv	vatives can be ad	
CAD stands for			Bio	nass				of the timbe	r, protecting it from and
Advantages	Disadvantages	Advanta		Disadvantages		Part B			
•	•	•		•	2	3 4	1		sure-treated timber will e no need to,
:	:	. —						,	,, O

Food choice

Food choice

Food choices for a balanced diet depend on many factors, such as: advertising and other point of sale information; cost and economic considerations; cultural or religious practices; environmental and ethical considerations; food availability; food preferences; food provenance; health concerns; individual energy and nutrient needs; portion size; social considerations.

Consumer information

Information can help consumers make informed choices, including: advertising and marketing; media, online blogs/forums; packaging, nutrition and health claims; point of purchase information and product placement; recipe ideas.

Cost and economic considerations The cost of food and money available will influence people's food choices. If money is limited, people may choose to buy more basic items. Luxury items might then be selected for special occasions.

Food prices

Food prices can and do change throughout the year and over time. This may be due to a variety of reasons, including:

- climate and weather patterns; ٠
- crop failure; ٠
- crop disease: ٠
- ٠ seasonality;
- consumer demand; ٠
- agricultural costs increase; •
- fuel prices go up; ٠
- increased use of bio fuels. ٠

Budgeting

There are many things that we can do to spend money wisely on food. Examples can include: eating the seasons; stocking up on food with a long shelflife: taking time to plan meals and write a shopping list;

cooking using one pot;

making fake-aways rather than buying takeaways;

using leftovers;

replacing branded items with cheaper items:

comparing prices and shop around to find the cheapest items;

growing your own food.

Environmental and ethical considerations

Some considerations when buying food might be:

fair trade:

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- local food:
- genetically modified (GM) food;
- organic food;
- free range.

Food availability

Buying food when it is in season will often mean that the price is lower. Technology and the importation of food has allowed food to be available all vear round.

Personal preferences

A number of factors can influence personal preferences, including:

- colour, size and shape of . crockery and cutlery used; ٠
 - portion size:
 - serving style;

.

٠

taste, aroma, texture, appearance, shape and colour of food.

Food provenance

Food provenance is about where food is grown, caught or reared, and how it was produced. Food certification and assurance schemes guarantee defined standards of food safety or animal welfare. There are many in the UK. including:



Health concerns

People may choose their food based on their own or their family's health and wellbeina: •

- allergy and intolerance, e.g. lactose intolerance, coeliac disease, wheat allergy, diary allergy;
- ٠ body image;

٠

- health issues, e.g. coronary heart disease, type 2 diabetes, inflammatory bowel disease, over or under malnutrition:
- mental health. •

Individual energy and nutrient needs

The amount of energy and nutrients needed differs between different age groups and between males and females. Energy needs also depend on activity levels. For example, athletes will have much higher energy requirements due to their high level of physical activity.

Key terms

Advertising: Advertising is a form of communication for marketing and used to encourage, persuade, or manipulate an audience to continue or take some new action.

Ethical: Relating to personal beliefs about what is morally right and wrong.

Food certification and assurance schemes:

Defined standards of food safety, quality or animal welfare.

Food provenance: Knowing where food was grown, caught or raised and how it was produced. Marketing: Promoting and selling products or services, including market research and advertising.

Religion: A particular system of faith and worship. Seasonal food: Food grown at a particular time of vear.

Portion size

Having a healthy, balanced diet is about getting the right types of foods and drinks in the right amounts.



Social considerations

- Body image and peer pressure. •
- Development of ready meals and a ٠ wider range of convenience foods.
- Development of labour saving ٠ devices. •
 - Lack of competence and confidence in the kitchen.
 - Lack of time.

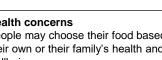
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Living arrangement (e.g. living alone).

Food availability

Buying food when it is in season will often mean that the price is lower. Technology and the importation of food has allowed food to be available all year round.



Food choice_	Budgeting There are many things that we can do	Personal preferences A number of factors can influence	Key terms Advertising:
Food choice Food choices for a balanced diet depend on many factors, such as:	to spend money wisely on food. Examples can include: -	personal preferences, including: - -	Ethical:
-	-	-	Food certification and assurance schemes:
-	-	-	Food provenance:
-		Food provenance Food provenance is about where food	Marketing:
-	-	is grown, caught or reared, and how it was produced. Food certification and assurance schemes guarantee	Religion:
Consumer information Information can help consumers make	Environmental and ethical considerations	defined standards of food safety or animal welfare. There are many in the UK, including:	Seasonal food:.
informed choices, including: - - -	Some considerations when buying food might be:	Red Tractor The British Marine Stewardship Lion mark Council	Portion size Having a healthy,
-		Health concerns People may choose their food based on their own or their family's health and	balanced diet is about getting the right types of foods and drinks in the right amounts.
Cost and economic considerations The cost of food and money available will influence people's food choices. If money	Food availability Buying food when it is in season will often mean that the price is lower.	wellbeing:	Social considerations
is limited, people may choose to buy more basic items. Luxury items might then be selected for special occasions.	Technology and the importation of food has allowed food to be available all year round.	-	-
Food prices			-
Food prices can and do change throughout th a variety of reasons, including:	e year and over time. This may be due to		
-		Individual energy and nutrient needs The amount of energy and nutrients neede	a
-		differs between different age groups and	
- - - -		between males and females. Energy needs also depend on activity level For example, athletes will have much high energy requirements due to their high level	and the importation of food has allowed food
		of physical activity.	







What we are learning this term:

Component three is the best and most difficult of the components. It requires you to draw on your knowledge of making drama and create your own piece of theatre in response to a given scenario and stimulus. You have 12 weeks to collaborate with a group, create and refine a piece of theatre and then finally perform to an audience. This will be externally moderated.

Keywords			
Brief	A creative brief is a document used to outline the strategy of a creative project. A creative brief contains project details including: Project purpose Objectives Requirements Demographics Deadlines		
Stimulus	A starting point for inspiration. Either a picture, a quote, a poem or song lyrics.		
Narrative	A story through line.		
Fractured Narrative	A non-linear story line.		
Verbatim	Copied, quoted, or translated in exactly the same words as were used originally.		
Devising process	Devising in drama demands inventiveness, an understanding of the rules of structuring a piece of theatre and a readiness to collaborate with others.		
Analyse	Recording insights, ideas and observations		
Evaluate	Discuss your development and final work. To help others understand what you were trying to achieve explain your successes and weaknesses. To demonstrate your knowledge and understanding of art and design.		
Characterisation	Physical and vocal attributes, individualized to a character that conveys personality and background.		
Physicality	Stance, stride, posture, weight.		
Vocality	Pitch, pace, pause, accent, intonation.		

	Component 3 – What is required:
Activity One	An ideas log completed and saved as a PDF (up to 800 words). An hour exam and one page of notes allowed.
Activity Two	A skills log completed and saved as a PDF (up to 800 words). An hour exam and one page of notes allowed.
Activity Three	Performers must submit a digital recording of a workshop performance of between 7 to 15 minutes per group performance. Designers must submit a digital recording of their pitch/presentation of between 5 to 10 minutes. These performances/pitches/presentations must be to an audience.
Activity Four	An evaluation report completed and saved as a PDF (up to 800 words). An hour exam and one page of notes allowed.

Key lea	ning aims from Component 3
AO1 Understand how to respond to brief	Understand how to respond to a brief
AO2 Select and develop skills and techniques in response to a brie	Demonstrate how to select and develop skills and techniques that are needed to realise the creative ideas in response to a brief
AO3 Apply skills ar techniques in a workshop performance in response to a brie	performance skills and effective realisation of design skills and techniques in a workshop performance to the target
AO4 Evaluate the development process and outcome in response to a brie	Ability to reflect on the performance and the process. By reflecting on; Individual contribution Group contribution effectiveness of the response to the brief o individual strengths and areas for improvement o overall impact of the work of the group.



Where to research:

Devising - GCSE Drama Revision - Edexcel - BBC Bitesize News | Swindon Advertiser Ideas about Creativity (ted.com) Knife crime | UK news | The Guardian

YEAR 11 BTEC DRAMA KNOWELDGE ORAGNISER - COMPONENT THREE



	Component 3 – What is required:
Activity One	
Activity Two	
Activity Three	Performers must submit a digital recording of a workshop performance of between 7 to 15 minutes per group performance. Designers must submit a digital recording of their pitch/presentation of between 5 to 10 minutes. These performances/pitches/presentations must be to an audience.
Activity Four	An hour exam and one page of notes allowed.

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Devising - GCSE Drama Revision - Edexcel - BBC Bitesize

YEAR 11 BTEC DRAMA KNOWELDGE ORAGNISER - COMPONENT THREE

i .	What we are I	earning this term:		Keywords	
	components. It knowledge of r piece of theatr stimulus. You group, create a	ree is the best and most difficult of the t requires you to draw on your making drama and create your own e in response to a given scenario and have 12 weeks to collaborate with a and refine a piece of theatre and then to an audience. This will be externally	Brief		
	Key learning	aims from Component 3			
	Inderstand o respond to a	Understand how to respond to a brief through discussion and practical exploration activities. Response to stimulus.			
develo techni	elect and op skills and iques in nse to a brief	Demonstrate how to select and develop skills and techniques that are needed to realise the creative ideas in response to a brief	Stimulus		
	pply skills and	Demonstrating effective use of	Narrative		
works perfor	mance in	performance skills and effective realisation of design skills and techniques in a workshop performance to the target audience. Communicate effectively through performance. Work well within a group dynamic. Ability to reflect on the performance and the process. By reflecting on; Individual contribution Group contribution effectiveness of the response to the brief	Fractured	Narrative	
respoi	nse to a brief		Verbatim		
develo proces outcor	valuate the opment ss and me in nse to a brief		Devising	process	
		 o individual strengths and areas for improvement o overall impact of the work of the group. 	Analyse		
			Evaluate		
			Character	risation	
			Physicalit	у	
			Vocality		

Year 11 BTEC Health and Social Care- <u>Component 3</u>: Health and Wellbeing. LAA

						· -		
What we are learn	ing in LAA:	B Definitions of heath and well-being						
A. Key wordsB. Definitions of health and wellbeingC. Genetic inheritance		Positive Definition		Looks at how physically fit and mentally stable a person is. You have a positive attitude towards health and wellbeing if you realise that there is something you can do to improve your health and wellbeing and do it.				
A. Key words for this Unit		Negative definition		Looks at the absence of physical illness, disease, and mental distress. You have a negative attitude towards your health and wellbeing if you: Base your attitude on not having anything wrong with you. 				
Genetic inheritance	The genes a person inherits from their parents		V	 Continues as you are- Inc. keeping bad habits like smoking. Assume that because you currently feel fine you will stay healthy in the future. 				
Predisposition	Someone is more likely to suffer from a particular condition	Holistic defir	hition	absence of disease	or illness; it lo	alth and social and emotional wellbeing. It is not just the ooks at all aspects of a person's health and wellbeing. ds health and wellbeing if you look after your:		
Chronic	Gradual illness that is long term (longer than 3 months) and generally can be treated but not cured	A	Intellectual	Physical Health Be meeting the need	1: ds we have to	b keep our bodies working as well as they can, e.g. Food, est, exercise and good personal hygiene.		
Acute	A short-term illness that can be cured	Physical	Holistic	By meeting the need	• Intellectual health: By meeting the needs we have to develop and keep our brains working as well as possible;			
Monitor	To check progress over a period of time.		Spiritual	these include mental stimulation to keep us motivated and interested. Emotional aspects of wellbeing: Dumosting the needs we have that make up feel harmy and relevad, a g, heing lound				
Person-Centred	Planning care around the wants and needs of a service user			By meeting the needs we have that make us feel happy and relaxed, e.g. being loved, respected and secure. Knowing how to deal with negative emotions, having positive self-concept and being respected by others.				
Bereavement	The process of coming to terms with the death of someone close.			• Social aspects of wellbeing: By meeting the needs we have to help us develop and enjoy good relationships with others, including mixing with others in appropriate environments and having access to leisure facilities/ activities.				
Circumstances	Events that change your life, over which you have no control							
Physiological	Relates to how a person and their	C.	Genetic inheritance					
latera net	bodily parts function normally.	In	herited physical Charac	teristics		Genes and environment		
Interpret	understand an action, mood, or way of behaving as having a particular meaning	parents e.	nherit their physical; chara g. height, skin and eye co r	plour and hair type physical makeup.		osomes carry genes that determine aspects of persons al makeup. s a section of DNA that carries a code. Different versions		
Collaboratively	Working well together with other poeple or services	 These characteristics can affect soo welling because they influence a period 			of a get • Enviror	ne are called alleles (they can be faulty). Imental factors such as diet, also influence physical		
Obstacles	Difficulties a person might face when they implement a plan.		e and esteem).		genetic	ance. For example, a person may not grow to their full, ally determined height if they do not have enough food.		
Goal	What you want to achieve in the long term	Allele type	Dominant: If a gene is dominant a of from only one birth pare	nt will have the	Effects of inherited disorders	 Physical health: Body systems, growth and mobility Intellectual welling: learning, thinking, problem solving and decision making. 		
Norm	Something that is usual, typical or standard	-	condition, e.g Huntingto Recessive:		-	 Emotional wellbeing: how people feel about themselves. Social wellbeing: the ability to build relationships 		
Targets	Challenges to help you reach your goal		If the gene is recessive develop the condition if both birth parents, e.g. (it was inherited from	1	and maintaining them.		

Year 11 BTEC Health and Social Care- Component 3: Health and Wellbeing, LAA

What we are learning in LAA:

D. Balanced diet

D.

What is a

balanced diet?

- E. Chronic and acute illness
- F. What are the effect of exercise?

Balanced diet

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G. What are the effect of excessive substance use?

It is also a lifestyle choice



an Care- <u>Component 3</u> : Health and Wellbeing. LAA 4										
E	Chromic	or Acute Illness	r Acute Illness							
Chronic illness- Illness comes on gradually, is long term (more than 3 months) and generally can be trea but not cured. E.g Asthma, Diabetes, epilepsy, bipol disease, Alzheimer's disease				Acute illness- Illness comes on qu short term and can be cured. E.g. C broken bones, heartburn, appendici Diarrhoea.	old, flue,					
osteoporosis	(a chronic o	, ,		ise of chronic conditions. For example asking their bones fragile and more lik						
		Possible negative effe	ects	of chronic illness						
 Physical: poor rate of growth Unusual physiological change during puberty Restricted movement 				Emotional: • Negative self-concept • Stress • Decision making						
 Intellectual: Disturbed learning because of missing school Difficulties in thinking and problem solving Memory problems. 				Social Isolation Loss of independence Difficulties developing relationships 						
F. 1	What are th	e effect of exercise?								
Positive effects of exercise Physical: maintain a healthy weight, reduce BMI, boostin Improved flexibility, stamina, endurance and stronger born Reduce risk of heart disease and diabetes. Intellectual: improved brain function like mentor and thin Emotional: improves confidence and mood and reduces and sleep and lead to better self concept. Social: encourages social interaction, reducing isolation a skills.					cles. elaxation					
Negative effe exercise	ects of	Physical: Obesity and ass Intellectual: Reduced pain information.		ed health problems. ormance, hard to concentrate and reta	ain					

	able to take all the opportunities that life offers.
Overweight or underweight may:	 A person over weight or under weight may: Be prone to illness and conditions Have their life expectancy reduced Be less able to exercise effectively Miss out on learning experiences Miss out on some sporting activities Be less successful in job interviews Feel embarrassed and self-conscious about their appearance in social situations.
Essential parts of a healthy diet:	 Fats (saturated and unsaturated) Carbohydrates (sugars and starches) Minerals Vitamins Proteins
Est well guide says you should eat:	 Eat at least 5 portions of a variety of fruit and vegetables every day. Base meals on potatoes, bread, rice, pasta or other starchy carbohydrates; choosing wholegrain versions where possible. Have some dairy or dairy alternatives (such as soya drinks); choosing lower fat and lower sugar options. Eat some beans, pulses, fish, eggs, meat and other proteins (including 2 portions of fish every week, one of which should be oily). Choose unsaturated oils and spreads and eat in small amounts. Drink 6-8 cups/glasses of fluid a day.
If you eat <u>more</u> than you need:	 The body will store food as fat and this can lead to: Obesity, heart disease, high blood pressure, Strokes, Tooth decay or cancer
lf you eat <u>less </u> than you need	 The body does not get enough nutrients to grow and develop properly and this can lead to: Eating disorders, stunned growth, anaemia, heart failure,

depression, tiredness, cancer or rickets.

Diet that contains the correct nutrients in the right

proportions to keep out bodies and minds healthy.

Choosing to eat too much or too little might make us less

G.	What are	the effect of excessive substance use?
Negative e excessive consumption	alcohol	 Physical: Alcohol dependence, damage to major organs: liver, heart, kidneys, pancreas. Cancers: mouth, throat, oesophagus, liver, breast. Infertility and impotence, weight gain. Intellectual: difficulty in making decisions, depression and anxiety, chance of stroke and brain damage, impaired brain development of unborn baby. Emotional: poor self-concept, poor judgement leading to a risk of accidents and unsafe sex, can have an impact on relationships, depression. Social: breakdown of relationships, domestic violence, social isolation

Emotional: poor self-concept and reduced ability to cope with stress.

Social: Fewer opportunities for social interactions.

Year 11 BTEC Health and Social Care- <u>Component 3</u>: Health and Wellbeing. LAA

	Year 11 BTEC Health and Social Care- <u>Component 3</u> : Health and Wellbeing. LAA 43								
What we are learning in LAA:			J. What are the hazards of Smoking		particles cause:				
I. What are the J. What are the K. What are the	f social interactions on wellbeing effects of stress on health and wellbe hazards of smoking effects of personal hygiene cts of social interactions on wellbe	He •i	eart disease and poor circulation n ncreased blood pressure ncreased risk of heart attack narrowing of the arteries.	• brond • emph • asthr • smok	iysema	Nicotine causes: • addiction • increased blood clotting leading to thrombosis. Conditions such as: • stroke			
Social integration When people feel they belong to a group and can interact with others. Social interactions can happen between family members and friends, work colleagues, school learners, members of a community or interest groups. Social isolation Occurs when people do not have regular contact with others. This may be because they don't go out much because of physical illness, reduced mobility or unemployment. They might have a difficulty in communicating if they have a mental illness, depression or learning difficulties. Lastly, a person might be			arbon monoxide causes: decreased oxygenation poor growth extra work for the heart increased risk of thrombosis. xposure in childhood means that hildren: are prone to chest infections and a tend to be smaller and weaker	sthma Exposure	• gum disease. Tar causes cancers of the nose, throat, tongue, lungs, stomach and bladder. Smokers': • breath and clothes smell of smoke • hands and nails are nicotine stained				
Positive effects or relationships	Intellectual: shared expe	t and day to day care and pra riences, supported learning ar	do less well at school.	• smaller • more sti • more mi	babies	• faces often become wrinkled from the effects of smoking.			
Emotional: unconditional love, security and encourd feeling content, ability to build relationships with perindependence and confidence. Social: Companionship, social circle increases. Negative effects of social isolation Physical: poor lifestyle choices like smoking and d eating disorders. Intellectual: reduced ability to use thinking skills, m Emotional: intellectual: reduced ability to use thinking skills, m emotional: feelings insecure, depression, anxiety, hurt, loneliness and distrust, lack of independence, emotions.			 Positive effects of good personal hygiene Reduces numl You must: Brush you teel Shower daily of ifficulty in controlling 		the spread of infection -concept ber of bacteria that lives on us.				
Image:				Negative effects of poor personal hygiene	poisoning, sore th Bad body odour, l <u>Emotional:</u> loss o	g and spreading disease like food roat, meningitis and athlete's foot. bad breath and tooth decay. of friendships and social isolation.			
	at Forgetfulness ng rate Poor concentration	Emotional effects Difficulty in controlling emotions	Social effects Difficulty in making friends and building		Social: low social	Ind poor self-concept. I interactions as people don't want someone that neglects their olation.			
Increased breathing rate Tense musclesPoor concentration Difficulty in making decisionsemotions Feeling insecure Negative self-concept Feeling anxious and frightened Loss of confidenceDry mouth High blood pressure Loss of appetite Sleeplessness Digestive problemsPoor concentration Difficulty in making decisionsemotions Feeling insecure Negative self-concept Feeling anxious and frightened Loss of confidence		Negative self-concept Feeling anxious and frightened	relationships Breakdown of close relationships Social isolation	When caring for others:	 Negative effect and their heal Discomfort for 	can stop effect communication. ct on the person being cared for th and wellbeing- pass on infection r the person being cared for e odour or visible dirt under			

Year 11 BTEC Health and Social Care- Component 3: Health and Wellbeing. LAA

1 call if billo fleath and obcial care <u>component 3</u> . fleath and Weilbeing. LAA 44								
What we are	learning in LAA:		N.	Wha	at are the effects of economic factor	s (e.g, income) on health and wellbeing		
L. What are the barriers to seeking help.M. What are the effects of unexpected life events on health and wellbeing		th and wellbeing			Positive Effects:	Negative Effects:		
N. What are the effects of economic factors (e.g, income) on health and wellbeingO. What are the effects of expected life events on health and wellbeing			Physical		 Better financial resources can result in good housing 	 Low wages can affect diet ad housing, leading to poor health. 		
L.					 conditions and healthy diet Manual jobs may improve 	 Manual jobs can cause muscular and skeletal problems 		
Culture	 Accessing HSC services can be influenced by values, traditions, way of life and beliefs of the society or group. Some may have received discrimination when accessing other services. Some may not speak English well enough. Values and traditions not understood e.g. eye contact means respect in some cultures but not others. Some cultures a woman must be treated only by a female professional. Alternative therapies are used in some cultures 				muscle tone and stamina.	 Desk jobs lead to less activity and weight gain. 		
			Intellectual		 Better financial resources can result in more leisure time for intellectual activities Work, education or training helps to develop problem solving and thinking skills 	 Some people work very long hours to improve their financial position, leading to less leisure time and reduced learning opportunities. Being unemployed can result in poor mental health. 		
Gender	Gender Research shows that men are lesson likely to talk about their health and wellbeing than woman. This is because men are: Often less open about their feelings Sometimes reluctant to appear vulnerable by asking for help Not aware of poor health signs as health campaigns target women's health more		Emotional Social		 A well-paid job gives a feeling of security. Being financially secure promotes positive self- concept 	 Financial worried can result in stress and breakdown of relationships. Unemployment or low-status work can lead to low self-concept 		
Education	 Unhappy to be examined by a female health worker. Research shows that people who are better educated are more likely to seek help. This is because: They like to research symptoms and know when help is needed Understand the importance of early diagnosis and treatment 				 Better financial resources provide opportunities for socialising. Work gives opportunities for socialising with colleagues. 	 Lack of financial resources reduces opportunities for socialising. Unemployment reduces opportunities for relationships, leading to social isolation. 		
	Know how and where to access service		O. What are the effects of expected life events on health and wellbeing					
Stigma	In some cultural groups there is a stigma a depression. Stigma is a word used to deso embarrassed about. Therefore, they would	cribe something that people feel	Life event		Positive Effects:	Negative Effects:		
M. What	are the effects of unexpected life events		Startir schoo		 Build new relationships Extend knowledge and 	 Anxiety about new routines and meeting new people 		
Life event	Positive Effects:	Negative Effects:	college or uni		learning Develop new skills Improve confidence 	 Insecurity about leaving parents and other families 		
Imprisonment	 Depression Loss of contact with family and friends Social isolation Restrictions on physical activity 	 Loss of contact with family and friends Social isolation Improvement in health through balanced diet, lack of alcohol, reduced use of nicotine 		a ob or	 Develop independence Improve thought processes Improve self-concept 	 Stress about learning new skills and routines Anxiety about meeting new people 		
Redundancy	 Poor self-concept Anxiety about finances Fewer opportunities 	 Opportunities to study or train for a new job More time to spend with family and friends 	Moving to a new house or area Retirement		 Excitement Develop new friendships and relationships 	 Unhappiness at loss of old life Stress of moving Social isolation 		
Exclusion or dropping out o education	of Content of the second secon	 Catalyst for change of behaviour Opportunities for more suitable study or work situation 			Retirement		 Reduced stress Time to socialise with family and friends Opportunities for leisure of physical activities 	 Loss of relationships with colleagues Possible loss of fitness and mobility Loss of intellectual stimulation and status

What we are learning in LAB:

- A. Physiological health indicatorsB. What are health indicators?C. Interpreting lifestyle data

Α.	Physiolo	ical health indicators						
Pulse		Resting pule rate is measured when a person has been still for about 5 minutes. Health reading for an adult is 60-100 bpm. Pulse rate during exercise: 220bpm minus the person's age.						
Blood p	ressure	 This is the pressure exerted by blood against the artery walls. It is measured in millimetres of mercury (mm Hg) and is shown in two numbers: Systolic pressure: (the top number) is the maximum pressure in the blood vessels as the heart pushes out blood. Diastolic pressure: (the bottom number) as the minimum pressure in the vessels when the heart relaxes between the beats. 						
Peak flow		 Measured how quickly you can blow air out of your lungs. it is measured in litters per min (L/min). 						
BMI		 Measures the amount of fat on your body in relation to your height to tell you if your weight is healthy. 						

В.	What are health indicators?
Importance of understanding indicators	 Detect health problems at an early stage Track improvements or deterioration in health Make recommendations about health and treatments Give advice about future health risks Support individuals to make different lifestyle choices.
What are lifestyle indicators?	 These indicators can be used to assess risks to an individual's health and wellbeing now and in the future. Professionals collect information about lifestyle choices by asking about a person's: Weekly alcohol consumption Smoking habits Levels of physical activity and exercise.
What are physiological indicators?	 They show how well the body's systems are functioning. Health professionals check a person's heath by taking measurements. They compare the results with published guidance.

C.	Interpr	eting lifestyle data
Interpreting data on smoking		 Smoking causes around 96,000 deaths in the UK annually. Smoker under the age of 40 are 5 times more likely to have a heart attack than non-smoker. Smoking causes 80% of deaths from lung cancer, 80% of bronchitis and 14% of deaths from heart disease. More than 25% of all cancer deaths are caused by smoking. On average a smoker will die 10 years earlier than a non-smoker. Smokers are more likely to develop facial wrinkles. Smoking is a cause of impotence and can lead to sperm abnormalities.
Interpretidata on a	-	 Strongly linked to at least 7 types of cancer Alcohol-related liver disease accounts for 37% of liver disease and deaths. 2/3s of cases of chronic pancreatitis are caused by heavy drinking You are between 2 and 5 times more likely to have an accident or injury Each drink per day increases the risk of breast cancer in woman between 7-13% Men and woman should not drink more than 14 units a week and not all in one go.
Interpretidata on inactivity	Ū	 Increased risk of breast cancer by 17.8% and colon cancer by 18.7% Increased risk of type 2 diabetes by 13%. Increased risk of coronary heart disease by 10.5% Leads to obesity and joint pain 16.9% of all premature deaths are caused by inactive lifestyle. Active people have a lower risk of premature death. People who are inactive visit their GP more often and they spend 38% more time in hospital.

Year 11 BTEC Health and Social Care- <u>Component 3</u>: Health and Wellbeing. LAA

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What we are	learning in LAC:		C. Recommended action to meet health and wellbeing improvement goals					
 A. What is a person-centred approach B. Health improvement plan C. Recommended action to meet health and wellbeing improvement goals D. SMART targets for health improvement plan E. Sources of support 			To lower blood pressure: To reduce BMI: • Eat five or more portions of fruit and veg a day • Reduce fat and sugar intake • Cut out salt • Do not exceed the recommended daily calories intake • Join a gym • Get off the buss a stop early and walk the rest way					
A.	What is a person-centred approach.	^	consum	ption	Drink water instead of sugary drinks.			
Person- centred approach	A holistic approach that puts the individual at the heart of health care planning, so that the whole range of physical, intellectual, emotional and social health needs are met.		Half theUse nicc	e peak flow reading: number of cigarettes smoked each day otine replacement therapies exercise or dance class.	 To reduce pulse rate and improve recovery time after exercise: Walk for half and hour at lunchtime Drink decaffeinated drinks Take up a physically active hobby 			
When planning for	The needs: physical, intellectual, emotional and social.				 Take up a physically active hobby Join a yoga group.			
health improveme	 The wishes: likes, dislikes, choices and desired health goals. 	D.	SMART targe	ets for health improvement plan				
nts include:	 Circumstances: illness or disability, access to facilities, previous experiences, family and relationships, responsibilities. 	<u>S</u> pecific		t must be clearly stated. It should say exactly e target should be clear and not open to any	y what you mean, such as to 'lose 2 kg in weight in a / misunderstanding.			
Benefits of person-	 Will feel involved Is more likely to trust a health professional who listen to them Will feel more secure Is more likely to follow the plan and achieve the targets 	<u>M</u> easurable	A target of target.	A target of to 'lose weight' is too vague. A specific amount must be stated so you can prove you have met your target.				
centred approach:		<u>A</u> chievable/ attainable	If you are following a health and wellbeing improvement plan you must feel it is possible to achieve it. If you do not, you will probably give up before you have even started. An achievable target is to 'lose 1kg this week'. An unachievable target would be to 'lose 20kg this week'.					
	Will take responsibility for their own health.	<u>R</u> ealistic	The target set must be realistic in that you must be able to physically do it. It is not realistic to expect a person who is older and not very fit to run for 30 minutes a day to help weight loss, but it is realistic to ask the same of a					
	Ith improvement plan	Time		nger person.				
it?	Health and welling improvement plans are often based on an individual's physiological and lifestyle indicators. Plans should be	<u>Ti</u> me-related	The target must have a deadline, so that you know when you need to achieve the target by, and progress can be assessed.					
	person-centred and include goals, actions and targets and possible sources of	E.	Sources of support					
The plan will	The health issues and goal The recommended actions to take A set of targets for health improvement	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.					
identify:	 The supports that are needed Possible obstacles to progress and way to overcome them. 	Professions (formal) support	Formal support may be provided by statutory care services (the state), private care services and chari organizations. Professional support may include counsellors, teachers, careers advisers, occupational social workers and health specialists. Professional support may be needed to help people with a healt regain mobility, deal with life changes and emotions, get advice and information or change their lifesty					
Positive effects of a health improvem ent plan	 Be fitter Loose weight Have improved self-concept Lower blood pressure, healthier heart Reduced risk of cancer Taking control of their health outcomes and reaching health goals 	Voluntary support	Organizatio support ser paid by don neighbourh	ons offering voluntary support are charities, c rvices, many staff are volunteers (they work nations. Community groups work at a local le lood i.e. foodbanks. Religious groups are for they help all people in need regardless of the	community groups and religious groups. At voluntary for free), but they also employ qualified people who are evel to meet the needs of people living in a specific rmed by people who share the same religious or spiritual eir beliefs and background i.e. a church run soup kitchen			

Year 11 BTEC Health and Social Care- <u>Component 3</u>: Health and Wellbeing. LAA

	Teal TI BIEC Health and Social Care- <u>Component 5</u> . Health and Weilbeing. EAA							
F.	What are the potential obstacle to implementing plans?	G.	What	are the possible obstacle	s to accessing services?			
Emotional/ psychological- Lack of	 A conflict between choices such as worrying that giving up smoking could result in weight gain Other priorities in a person's life- such as getting married or bereavement. Having negative attitude- believing change will be too difficult Lack of progress for example losing eight guickly in the first weeks but then slowing down 	Type of obstacle		Possible obstacles	Suggestions to overcome obstacles			
motivation	 Lack of progress for example losing eight quickly in the first weeks but then slowing down. Having a blip- thinking there is no point in continuing the plan after briefly returning to an old lifestyle. 	Geographical		 Service is difficult to get to because of poor bus or train 	 Arrange hospital transport Suggest telephone helplines or internet support groups. 			
Emotional/ psychological- Low Self-	 People with low self-concept don't value themselves, Feel powerless to change their lifestyle or that there's no point in starting because the task some too big. 			services.				
concept	 seems too big. Some thin that because they were unsuccessful in other aspects of their life, they won't achieve their health goals. They may not feel they have support and approval from family and friends even if they really do. 	Financial		 Charges to use the services Time off from work would mean loss of pay 	 Check for entitlements, such as medicines and treatments Direct the person to advice on benefits and 			
Emotional/ psychological- Acceptance of the current state	 People my accept their present health problems or lifestyle choices, as it Is easier to stay the same than to make changes. Have no incentive to make a change because they do not understand the health risks. Have no desire to change, for example, if they are happy with their weight or don't want to give up smoking. 	Psychological		 Fear of being judged because there is stigma 	 employee rights. Talk about concerns and reassure Direct the person to a 			
Time constraints	People find that they do not have the time to achieve their health improvements targets because of: Care of young children, family members that are not well. Regular and additional work and study commitments Domestic chores Medical appointments Financial obstacles: Gym memberships, entry fee for a swimming pool Cost of attending exercise classes Cost of travel to the gym. pool or to attend health appointments Higher costs of some healthy foods. 			around a health problem (mental health, obesity)	charity that supports people with a particular health problem.			
				Difficulty getting into the buildings where the service	 Be aware of services that are adapted for easy access 			
Availability of resources				is provided (no wheelchair access).No where to park near the service	Ask a friend or family member to drop the person off at the service			
Unachievable targets	 Lack of and the cost of exercise equipment Expectations too high Targets are not clear There are too many targets Timing is wrong/poor Diet- find it difficult if a person on a healthy eating plan is surrounded by others that eat junk food or tempted by the chocolate and biscuits in the cupboard, Family and friends go out for meals instead of doing other activities. Smoking- friends and family smoking and offering them cigarettes. Lacking will power to quit. Alcohol consumption- someone that is used to drinking with family and friends will find it difficult to stop without their support. It would be hard to quit if the family and friends drink wine with their meals, friends centre a night out around heavy drinking at pubs and clubs. Understand what they need to do Learn how to make the required changes in their lives. Any places the person uses are wheelchair accessible Any exercise advised is wheelchair friendly. If stop smoking, then can put on weight- put people off. Like the way alcohol makes them feel but cant admit that they have a problem 		I	Communication difficulties because of pool language skills, sensory or learning disability.	 Provide support services that meet the person's needs, such as a BSL signer, interpreter, advocate 			
Lack of support				Concern that cultural needs are not understood	 Use anti-discriminatory practice and encourage others to do so 			
			es	 Limits on services, such as support 	Suggest sources of second-hand			
Ability, disability and addiction				 aids and equipment Staff shortages, leading to long waits for appointments and support. 	 equipment Look for alternative strategies, for example an exercise DVD if there are no places at an exercise class. 			

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