# 100% book - Year 11 Mainstream

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



# Term 3

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

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

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



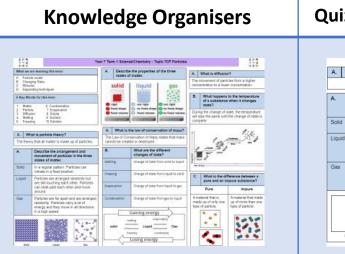








## How to use your 100% book of Knowledge Organisers and Quizzable Organisers

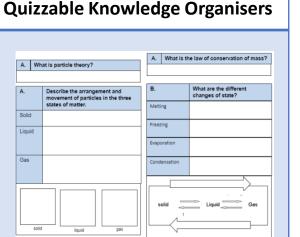


Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

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

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

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



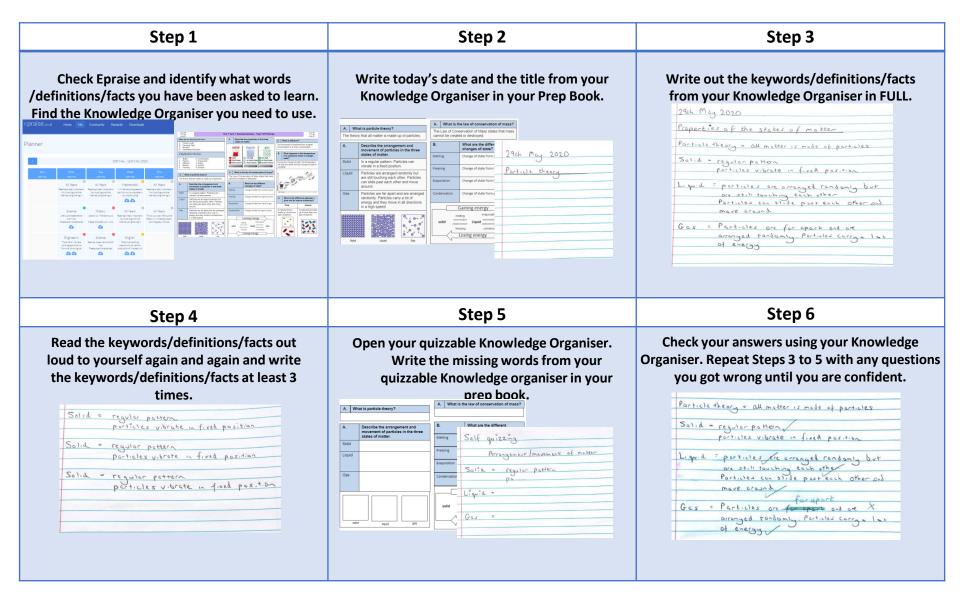
These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get

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

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

## How do I complete Knowledge Organiser Prep?



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

## **ENGLISH – Poetry cluster 2: Conflict – Sets 2-5**

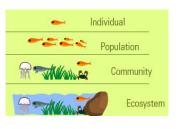
Key Vocabulary		Poem	Context	Message	Form/ structure
Patriotism Glorify	Being devoted to your country To present something as admirable and great	Charge of the Light Brigade Alfred Lord Tennyson.	<ul> <li>Alfred Tennyson, 1st Baron Tennyson 1809-1892. He was the Poet Laureate during much of Queen Victoria's reign</li> <li>The Charge of the Light Brigade was a charge of British cavalry led by Lord Cardigan against Russian forces during the Battle of Balaclava on 25th October 1854 in the Crimean War</li> </ul>	<ul> <li>Tennyson glorifies war. He focusses on the heroism of the soldiers as opposed to the tragedy of their death. Instead of mourning the soldiers, Tennyson celebrates the soldier's loss of life as an act of patriotism but ignores the true horror of war.</li> <li>Tennyson's poem may also be a tribute to the Light Brigades heroism because he celebrates the selflessness and courage of the soldiers who gave their lives in the war. He focuses on the heroism, bravery and loyalty of the British soldiers and how they should be honoured.</li> </ul>	<ul> <li>Written in ballad form - sung to help people remember it.</li> <li>It is written in dactylic dimeter - one stressed syllable followed by two unstressed syllables.</li> <li>The DUM-de-de <u>DUM-de-de</u> meter mirrors the galloping hoof beats of the horses.</li> <li>Tennyson recorded himself reading the poem in 1890 and he increased the pace of his reading as he progressed through the poem. This adds energy and pace to the poem.</li> </ul>
Disillusionment	A feeling of disappointment when discovering that something is not as good as one believed it to be	Exposure Wilfred Owen	<ul> <li>Wilfred Owen (1893–1918) is widely regarded as one of Britain's greatest war poets.</li> <li>The First World War was a conflict that took place between 1914 and 1918, costing the lives of over nine million soldiers and seven million civilians.</li> <li>Fighting on the Western Front in World War One was typically from systems of trenches than ran for hundreds of miles.</li> <li>Large attacks were uncommon and cost thousands of lives, so there was a lot of waiting for the soldiers. Conditions in the trenches were often very poor, with little shelter.</li> </ul>	<ul> <li>Instead of describing the horrors of battle, Owen describes the eerie calm of a night in the trenches. The true enemy of the poem is the weather that causes endless suffering. The soldiers in the trenches are exposed to the relentless elements.</li> <li>Owen's message is that that the soldiers are suffering in the trenches as a result of the brutal conditions. They are being bombarded by relentless weather which causes them pain and suffering. Owen presents this consistent struggle as the overlooked danger of trench warfare. This suffering is unescapable and futile as the soldiers are forced to stay awake in the cold and wait for a battle that never comes.</li> </ul>	<ul> <li>On a surface level, it seems to have order – 8 stanzas with 4 long lines and 1 short one. This may represent the same slow, unending pattern of the lives of the soldiers.</li> <li>There is irregular rhythm and laboured rhyme scheme – no set pattern to syllables in lines. This may represent the war effort – on the outside, it appeared coordinated and assembled, but to the soldiers on the inside, it was directionless and disjointed.</li> </ul>
Exposure	Being unprotected against risk or danger	Bayonet Charge Ted Hughes	<ul> <li>Ted Hughes was born in 1930 and died in 1998. He grew up in the countryside in Yorkshire. He was passionate about animals and nature. He was the poet laureate between 1994-1998</li> <li>His father served in WW1 and came back emotionally traumatised. Hughes respected Wilfred Owen. Hughes writes about a war that he did not experience to mirror Owen. Bayonet Charge has many similarities to Owen's poem Spring Offensive.</li> <li>Hughes said that Owen's poetry made him feel closer to his</li> </ul>	<ul> <li>Hughes suggests war is horrific. It is physically and mentally devastating and is so awful it can't be described. War has the power to destroy empathy and our sense of self. The issue of propaganda is highlighted by Hughes as cruel and misleading.</li> <li>Conflict is presented as pointless and repetitive; we do not learn from previous conflicts or avoid making the same mistakes.</li> <li>He also suggests that conflict, and the actions of humans, destroys nature. Our actions are selfish, and we do not consider the damage we are causing.</li> </ul>	<ul> <li>Starts in media res – we sense the soldier's confusion and disorientation as he is sent in to action.</li> <li>Enjambment and caesura used to create those same feelings for the reader.</li> <li>Repetition of 'raw' - several connotations such as raw meat hanging in a butchers (like the soldiers' bodies dead on the battlefield) / a painful wound (a result of violence/an injury) can feel raw / new and lacking in experience (like the soldiers)</li> </ul>
Relentless	When something harsh and severe will not stop	Poppies Jane Weir	Jane Weir was born in Manchester in 1963 and lived on a council estate. She is textile designer, writer and poet.     She wrote the poem Poppies as she was commissioned to write	<ul> <li>In Weir's poem, Poppies, conflict is presented as causing trauma. The poem deals with a mother's loss of her son to war and the void that this leaves. Weir compares the mundane of the domestic sphere to going to war in order to</li> </ul>	<ul> <li>No regular rhyme/ free verse – lack of this creates lack of rhythm and therefore makes this sounds like a stream of consciousness or monologue.</li> </ul>
Apathetic	Feeling no interest, enthusiasm or concern		a contemporary war poem as part of a collection in 2009. The collection was published in The Guardian as a response to the escalating conflict in Afghanistan and the Iraq Enquiry.	<ul> <li>highlight how the loss of the son effects the family unit, especially the mother.</li> <li>Throughout the poem, the speaker deals with the realities of war. The speaker highlights a parent's worst fear, the death of their child. The speaker addresses both the death of her child in war, as well as the inner conflict of holding onto your child or letting them become more independent.</li> </ul>	<ul> <li>Enjambement – joins two stanzas together, but there is a break in the middle, reflective of the broken mother when her son leaves.</li> <li>Caesura – makes the reader pause, highlighting the fractured mind of the mother in the poem.</li> </ul>
Nostalgia	A warm feeling for the past, particularly a very happy time	War Photographer Carol Ann Duffy	<ul> <li>Carol Ann Duffy was born December 23, 1955, in Glasgow, Scotland. She is a British poet whose well-known and well-liked poetry engages in topics such as gender and oppression. From 2009–19, she served as the first woman poet laureate of Great Britain.</li> </ul>	<ul> <li>.Duffy wants to show how our sympathy is short-lived. She highlights the consequences of regularly seeing war images: we become desensitised. Humans are presented as lacking empathy and being selfish: if they are not directly affected by a conflict, they don't care about it.</li> <li>Duffy presents warzones as horrific places to live and reminds us that it is not</li> </ul>	<ul> <li>The poem is laid out in four regular six-line stanzas, with each stanza ending in a rhyming couplet.</li> <li>This structure is interesting since its very rigid order contrasts with the chaotic, disturbing images described in the poem. This organisation mirrors the actions of the photographer, who lays</li> </ul>
Obedience	Doing as you are told		<ul> <li>Duffy was inspired to write this poem by her friendship with a war photographer: Don McCullin. She was especially intrigued by the peculiar challenge faced by these people whose job requires them to record terrible, horrific events without being able to directly help their subjects.</li> </ul>	only soldiers who die in conflicts, but civilians also suffer. She makes a point of showing that the most vulnerable people are at risk – children should be protected and safe, but she shows the terrors they can face when caught up in war and reminds us that people lose loved ones and can do nothing to save them.	<ul> <li>out his films in ordered rows, as though in doing so he can in some way help to restore order to this chaotic world.</li> <li>The poem moves through a series of observations in the first three stanzas to a conclusion of sorts in the fourth.</li> </ul>

## **ENGLISH – Poetry cluster 2: Conflict- Sets 2-5**

Key Vocabulary	Poem	Context	Message	Form/ structure
	Charge of the Light Brigade			
Patriotism	Alfred Lord Tennyson.			
Glorify	Exposure Wilfred Owen			
Disillusionment	Bayonet Charge Ted Hughes			
Exposure				
Relentless	Poppies Jane Weir			
Apathetic				
Nostalgia	War Photographer Carol Ann Duffy			
Obedience				

#### 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



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#### Competition

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

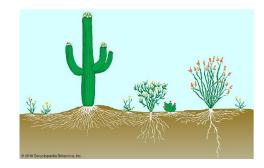
Plants	Animals
Light Space Minerals ions	Food Mates Territory
Water	

Biotic	and	Abiotic	Factors
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Factors that affect the number of organisms

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

#### **Plant adaptations**



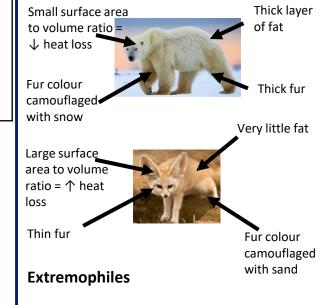
Plants in desert areas have :

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

#### **Animal Adaptations**

Can be:

- 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

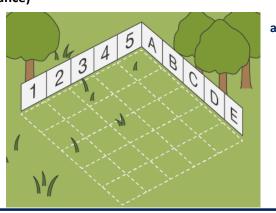
1. What is a community?	<ol> <li>Name two biotic factors that can affect organisms within a habitat</li> </ol>	1. Name the three types of adaptations
2. What is an ecosystem?		2. Name one behavioural adaptation
3. Give two things that animals rely on plants for	2. What does the term 'abiotic' mean?	3. 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		

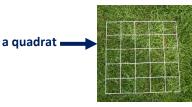
## Science T3 Y11 B5.16 Mainstream Adaptations, interdependence, and competition

#### 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 0.25m<sup>2</sup> 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*

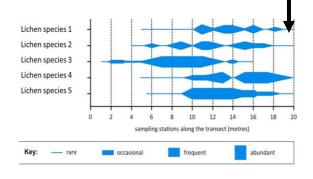
area of quadrat x mean

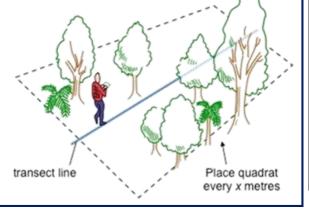




#### Required Practical – How populations may change over a distance (Measuring distribution)

- 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.)

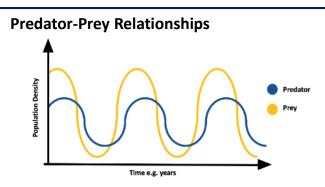




- 1. What is the minimum number of times the organism should be counted when estimating population size?
- 2. What is a quadrat?
- 3. What is the equation used to estimate population size?
- 4. How can you ensure the quadrat is randomly placed throughout the site?

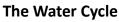
- 1. What is a transect line?
- 2. What is a transect line used to investigate?
- 3. How is the quadrat placed?

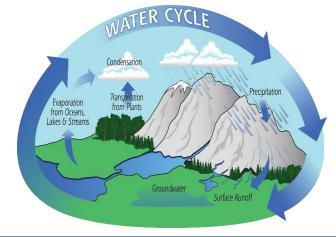
### Science T3 Y11 B5.17 Mainstream – Organising an ecosystem

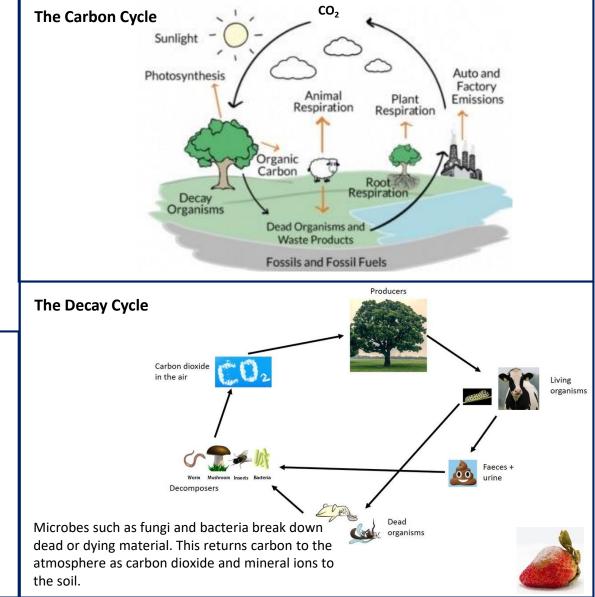


Population increases and decreases follow similar pattern in a cycle because they affect each other – more prey = more food for predator.

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

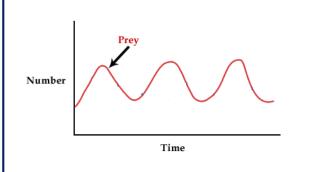






## Science T3 Y11 B5.17 Mainstream – Organising an ecosystem

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 measure of the variety of different organisms living in an area/ecosystem. Human Impact on Biodiversity			<ul> <li>Land pollution</li> <li>Household waste: toxic chemicals from landfill sites can leak into the soil.</li> <li>Industrial waste: toxic chemicals from industrial process can poison large areas.</li> </ul>	
Waste management	te Rapid growth in the human population = more resources are used and		<ul> <li>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 dangerous levels in the top predators (bioaccumulation).</li> </ul>	
Land Use		amount of land available for other animals and quarrying, farming, dumping waste and the bogs.	<ul> <li>Air pollution</li> <li>Acid rain: sulphur dioxide and nitrogen dioxides dissolve in rain turning it acidic.</li> </ul>	
Deforestation	In tropical areas it h fields or grow crops	as occurred to provide land for cattle and rice for biofuels.	<ul> <li>Smog: a haze caused by smoke particles and acidic gases.</li> <li>Smoke pollution: particulates (tiny solid particles) reflect the sunlight</li> </ul>	
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.	causing global dimming.	
<ul> <li>Maintaining Biodiv</li> <li>breeding program species</li> <li>protection of rare</li> <li>reintroduction of lefor emissions</li> <li>increased recycling</li> </ul>	mes for endangered habitats nedgerows estation and CO <sub>2</sub>	<ul> <li>Water pollution</li> <li>Fertilisers: nitrates from fertilisers are easily washed from the soil into stream, lakes and river.</li> <li>Untreated sewage: contains high levels of nitrates and can be washed into rivers or pumped into the sea.</li> <li>Toxic chemicals: from landfill sites can also be washed into waterways.</li> </ul>	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	
<ol> <li>What is the impact of waste management on biodiversity?</li> <li>What is the impact land use on biodiversity?</li> <li>What is the impact of deforestation biodiversity?</li> <li>What is the impact of global warming on biodiversity?</li> </ol>		odiversity? on biodiversity?	<ol> <li>EARTH</li> <li>Give three causes of land pollution?</li> <li>Give three examples of air pollution?</li> </ol>	
<ol> <li>How is biodiversity maintained?</li> <li>Give three causes of water pollution?</li> </ol>			1. What is the greenhouse effect?	

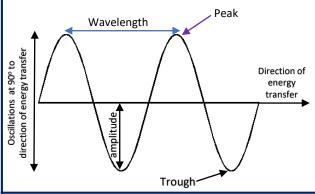
## Science T3 Y11 P4.12 Mainstream Wave Properties

#### **Transverse Waves**

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

#### Examples:

- Electromagnetic waves
- Ripples on water.

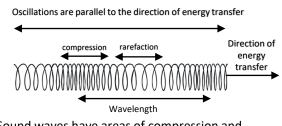


#### Longitudinal Waves

- 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

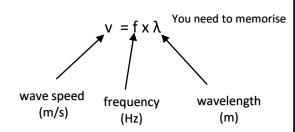
#### **Properties of Waves**

**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.

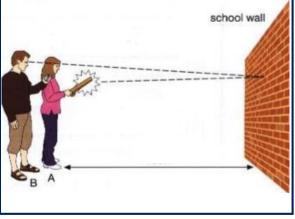
- Calculate speed of sound using:

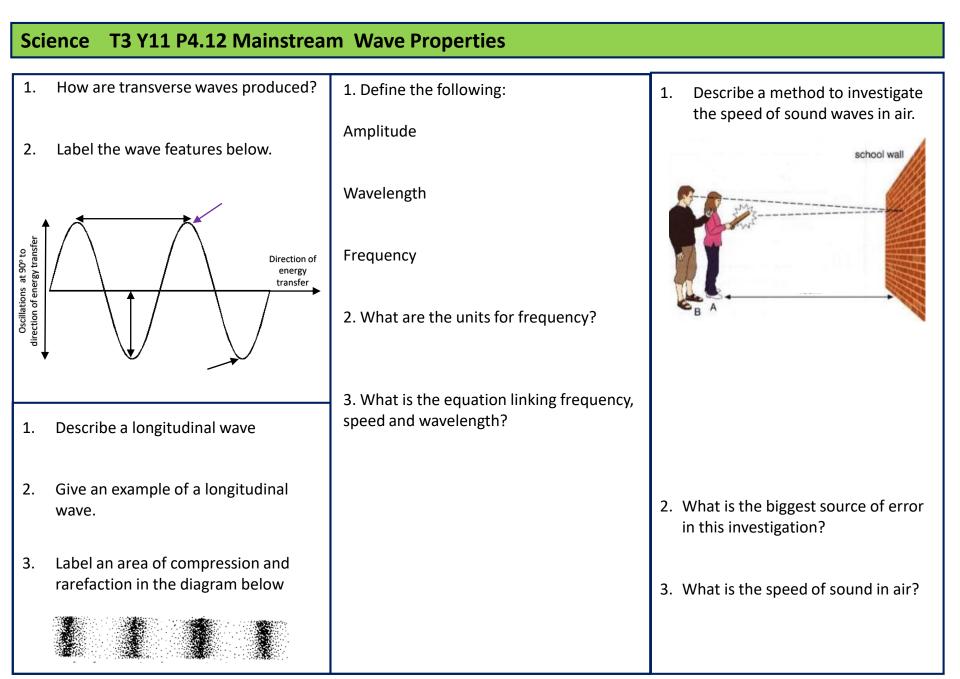
#### Speed = distance x time

- 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 \* Stop watch

#### Method

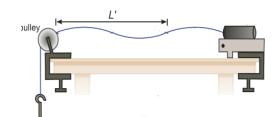
- 1. Set up the equipment as shown and turn on the motor to produce low frequency waves so that they are able to be counted.
- 2. Adjust the lamp until pattern is seen clearly on white screen underneath
- 3. Use a ruler to measure the length of a number of waves (e.g 10) and divide the length by the 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  $\lambda$  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

### **Equipment**

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

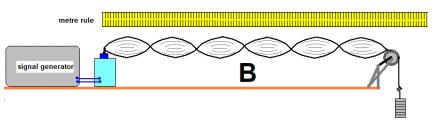
#### Science T3 Y11 P4.12 Mainstream Wave Properties Required Practical – investigating wave in a solid and a ripple tank

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	

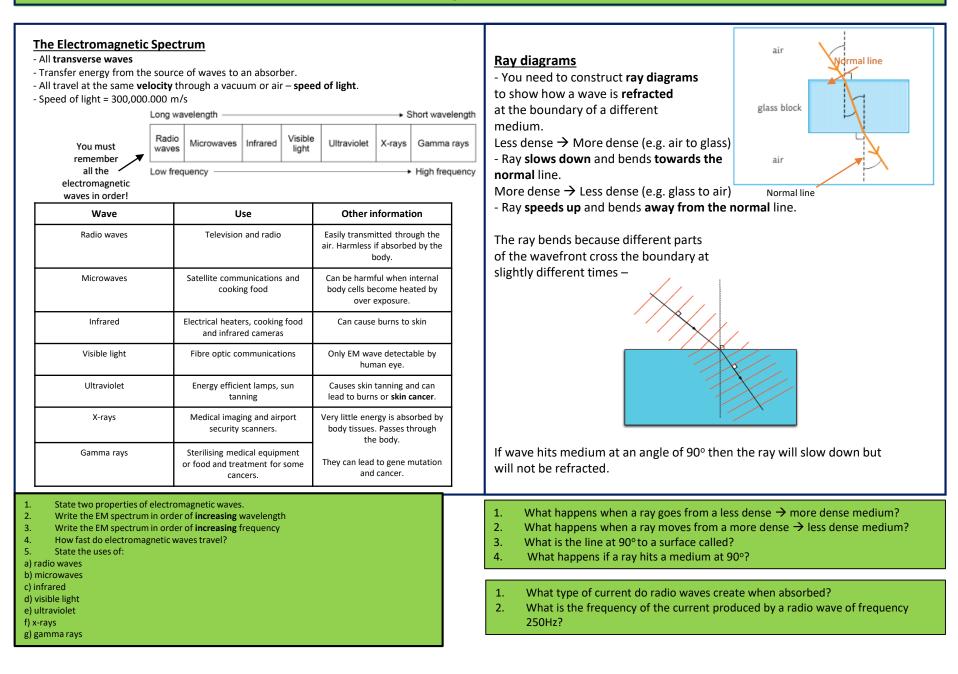
- 2. If the length of 10 waves is 55cm, what is the wavelength of 1 wave?
- 3. If there are 210 waves in 10 seconds, what is the frequency?

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

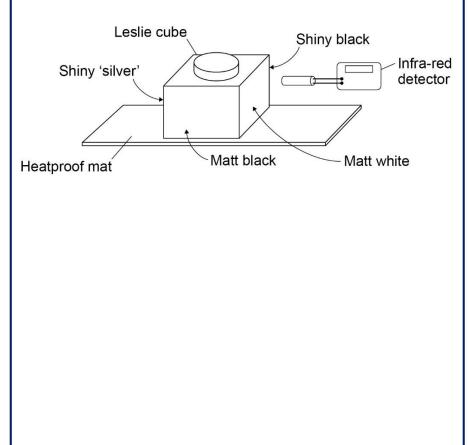
### **Conclusion**

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

<ul> <li>Magnets <ul> <li>Have two poles - north and south.</li> <li>Opposite poles attract</li> <li>Same poles repel</li> <li>Same poles repel</li> <li>Same poles repel</li> <li>Same poles will repel each other (e.g. N-N or S-S)</li> </ul> </li> <li>Deposite poles will attract (e.g. N-S)</li> <li>Magnetism is a non-contact force – magnets do not need to be touching for effect to be observed.</li> <li>Magnetic materials: only iron/steel, cobalt and nickel are magnetic.</li> </ul>	<ul> <li>Magnetic Fields Magnetic field = the area surrounding a magnet where the force will act on another magnet or magnetic material.</li> <li>Magnet field is strongest at the poles where the field lines are closest together.</li> <li>Field lines always go away from magnetic north and towards magnetic south.</li> <li>Earth's Magnetic Field</li> <li>Earth produces a magnetic field.</li> <li>Magnetic compasses use this to help navigation.</li> <li>The core of the Earth is made of iron (magnetic).</li> </ul>	<ul> <li>Electromagnetism</li> <li>When a current passes through a wire, a magnetic field is produced</li> <li>The direction of the field can be found by the right hand thumb rule</li> <li>curl the fingers of the right hand around the wire and point the thumb in the direction of the current (+ to -)</li> <li>The direction of the circular field is shown by the fingers</li> <li>Strength of magnet can be increased by increasing the current</li> <li>When the current is switched off, the magnetic field is lost</li> <li>Coiling the wire will form a solenoid.</li> </ul>
<ul> <li>Types of magnets Permanent magnet</li> <li>Produces its own magnetic field.</li> <li>Magnetism cannot be turned on or off.</li> <li>Induced magnet</li> <li>Induced magnet = a material which becomes magnetic when placed in a magnetic field.</li> <li>Induced magnets only attract other materials and lose magnetic field.</li> <li>when removed from the magnetic field.</li> </ul>	<ul> <li>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! <ol> <li>Place the bar magnetic in centre of paper.</li> <li>Place a plotting compass at one end of the magnet.</li> <li>Put a pencil dot at the place the compass arrow is pointing to</li> <li>Move the compass to line up the tail of the compass needle to the dot you just made.</li> <li>Repeat until you reach the other end of the magnet</li> </ol> </li> <li>6. Join the dots using a line – this is the magnetic field line. Mark on the direction the arrow pointed – it should run</li> </ul>	<ul> <li>June 1000 June 10</li></ul>

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.



## GCSE Geography. Paper 2. 2. Economic world. UK futures



1. Economic change in the UK	
(%) and y in the second	
Primary	A due to mechanisation.
Secondary	due to industrial revolution then due to de-industrialisation.
Tertiary	due to wealth (A disposable income)
Quaternary	High-tech jobs including research and IT. <b>7</b> due to government policies and the increase in technology.
Why has our	economy changed?
De-indust- rialisation	The decline of a county's traditional manufacturing industry due to exhaustion of raw materials, loss of markets and competition from NEEs.
Government policies	A plan decided by a government to manage issues in a country.
Global- isation	The process which has created a more connected world; with increases in the movement of goods/people worldwide

#### 2. Post industrial economy

Tertiary and quaternary sector employed 81% in 2011.	
IT	Employs over 60,000 people.
Services	Retail is the largest sector. Employs 4.4mill
Finance	London is the world's leading centre. HSBC
Research	Government invested £30bill in 2013.
Science parks	Groups of <u>high tech</u> industries and those doing scientific research. Located near
	universities (for graduates, share facilities).
Business parks	Purpose built areas of offices and
	warehouses (on edge of cities as less
	congestion, cheaper, good transport links).

3. Environmental impact of industry		
Air and water pollu	tion. Soil degradation.	
Releases CO <sub>2</sub> increa	asing the rate of global warming.	
Transport of mater	ials is by road 켜 air pollution.	
Example of modern industry being		
environmentally sustainable		
Google	London Landscraper started 2018.	
686 bikes spaces	Encourages cycling to work.	
4 car spaces	< congestion/CO <sub>2</sub> emissions.	
Solar panels.	Reduces fossil fuel consumption	
19,800 kWh	and reduces carbon footprint.	
Rooftop Urban greening. < CO <sub>2</sub> . Collects		
gardens	rainwater. Encourages wildlife.	

4. Chang	es in the rural landscape
Population	Outer Hebrides
decline	(away from cities, limited opportunities).
Constal.	Peclined by >50% since 1901.
Social	A aging population = care issues.
changes	I Less children > schools shut.
Economic	Services close ie post offices.
	å ↑ tourists but infrastructure not there.
changes	Government subsidies cost of ferries.
Population	South Cambridgeshire
growth	(near large cities, people can commute).
	Migrants from Cambridge, some now
Casial	from Eastern Europe too.
Social changes	Proportion of elderly increasing (>65).
	80% car ownership = > congestion.
	🛉 Young people are costed out.
Economic	å ∱house prices. Less affordable
changes	housing
	å Petrol prices ↑.

## 5. Improvements in infrastructure

Road	Upgrading 'Smart motorways' M4. Variable
	speeds, reducing accidents, extra lanes.
	2014 Road investment strategy £15 bill.
	New construction jobs, boost economy.
	Crossrail in London. Puts extra 1.5 million
Rail	within 45 mins commute of capital city.
	HS2 to reduce journey times. London to
	Manchester in 1 hr 8 minutes.
Port	Liverpool 2. Doubles capacity to over 1.5
	million containers a year.
	96% of UK imports/exports through ports.
Airports	Heathrow expansion. 3rd runway £18.6bill

#### 6.. North-South divide

Causes	Decline of heavy industry in North (coal) Investment in finance and service industry in the South Investment in infrastructure in South
Impacts in north	Higher unemployment / lower wages (40%) Poor health, lower life expectancy (10 yrs) Poor education. There are SOME exceptions

# Strategies attempting to resolve regional differences

Give more power to local councils and
Welsh and Scottish governments.
Plan best how to use their money.
A plan to attract investment to north.
Improve transport links to northern
cities. e.g. HS2, Liverpool2.
BUT just a CONCEPT not a plan.
55 EZs to encourage businesses to set
up in areas of high unemployment.
Reduce taxes, simple planning rules,
superfast broadband to the area.
Created more than 15,000 jobs.





1. Econ	1. Economic change in the UK	
0 UK employment share (%)	re-industrial Industrial Post-industrial	
Primary		
Secondar	y l	
Tertiary		
Quaternar		
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Economic changes	
Population growth	
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Airports		

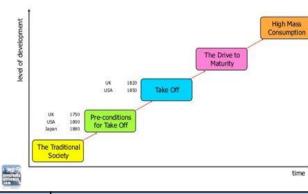
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Devolvin	ng	
more		
powers	,	
Norther Powerhou		
Enterpris Zones	5e	

#### 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. •



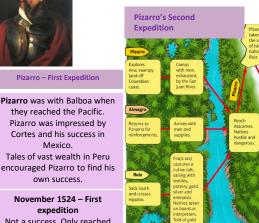
F.	What is Rostow's model?	Heritage Site which means that it should be p
Human Influenc e	<ul> <li>Currently Nigeria is in stage 3. This is where secondary industries dominate.</li> <li>In the future Nigeria may develop to stage 4</li> <li>They will do this by becoming more self-reliant by improving education.</li> <li>This will lead to increase in tertiary employment such as nursing and IT support.</li> </ul>	environmental harm. <b>Crime and government:</b> 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
<ul> <li>Employment opportunities in banking, finance and insurance.</li> <li>Good infrastructure (roads) which link different areas together.</li> <li>Better quality of life</li> <li>More jobs in secondary and tertiary sectors</li> </ul>		

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 Sustainable Management in Rio- Waste	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.
are citie Her env <b>Crin</b> 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.		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
	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.	H. Where do people in Rio come from?	Sustainable Management in Rio- Transport	Due population growth, means that the use of c has grown by in the lastyears.
<ul> <li>G. Why is Rio de Janeiro a global city?</li> <li>Until 1960 Rio was the capital of Brazil however this has not changed to Brasilia. Rio is still very important.</li> <li>Brazil is in an Emerging Developing Country. This means that it is experiencing rapid economic growth</li> <li>Rio is a mega-city. This means it has a population of over 10 million people.</li> <li>The exact population of Rio is unknown however it is over 18 million.</li> <li>Rio is the cultural capital of Brazil with an annual carnival and over 50 museums. It is also a UNESCO World Heritage Site.</li> <li>In 2014 the world cup took place in Rio</li> <li>In 2016 Rio hosted the Olympics.</li> </ul>	<ul> <li>Migration accounts for 65% of growth in Rio de Janeiro. Largely people come from Ee, in particular Portugal because they speak Pe in Rio.</li> <li>However, large numbers of people come from other parts of Brazil including the because there are,, improvedand education.</li> <li>People also travel from other countries in South America</li> <li>Many people come from the USA and UK. These are largely people who are and are attracted</li> </ul>		They have expanded the
High Mass Consumption The Drive to Maturity USA 1820 USA 1820 Take Off	<ul> <li>due to theindustry (specifically in oil exploration).</li> <li>Many people come from, this is because Rio de Janeiro has a growingindustry which is well paid.</li> </ul>	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.		fewmeaning that it is difficult 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 water system spreading To reduce this, ahas been set up near thewhich uses from
Positive impacts of urbanisation         • Employment opportunities in         • Good infrastructure (         • Better         • More jobs in sectors	<ul> <li>Negative impacts of urbanisation</li> <li>40% of people living in fs do not</li> <li>Due to unt there's not muchbeing paid by a large proportion of the population.</li> <li>Not enoughs - 40% of population live ins (illegal squatter settlements).</li> <li>Only 50% of people have access to he.</li> </ul>		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.
	<ul> <li>Air pion – 5,000 deaths/year</li> </ul>		



#### 3. The Spanish Empire 1528-1555



#### Not a success. Only reached Columbia before bad weather, lack of food and attacks by hostile natives forced Pizarro to turn back. The mangrove swamps put off any idea of establishing a settlement too.



Used to make 8 sided coins - 'pieces of eight. Widely accepted in Europe due to high silver content.

The Crown took 25% of bullion coming into Spain.

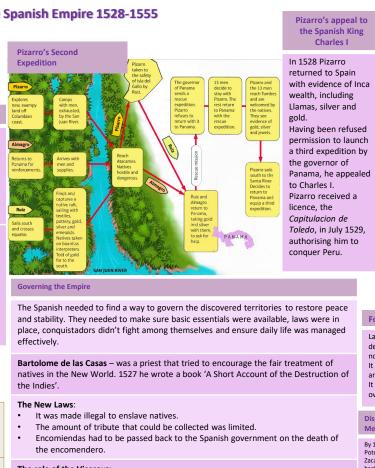
75% of wealth went to Spanish merchants and conquistadors.

European traders put up prices for the wealthy Spanish merchants.

High prices led to inflation - workers demanded higher wages in Spain.

Charles I invested money in the military - not industry and business.

Spanish were getting wealthy by finding bullion instead of making products and selling.



The role of the Viceroys: The Council of the Indies appointed two viceroys to govern Spanish territories: one in Mexico city and one in Lima (Peru). They acted on behalf of the government. Justice was managed through the audiencias (courts), with judges who were independent of the vicerovs.

#### The role of the encomienda system:

This was imposed officially across the Spanish Empire.

An encomienda was land granted to a Spaniard, who was then called an encomendero. He could demand tribute from natives. In return he was responsible for their protection and their conversion to Christianity.

#### Significance of the New Laws 1542:

Laws introduce to improve the rights of native people, but encomenderos opposed them and the viceroy of Peru refused to implement them.

Revolts in Peru: the most serious in 1544 had to be put down by the Spanish government and led to a temporary halt in the Spanish conquest of the New World in

1550.

Although forced to suspend the laws, Charles I insisted encomiendas be passed back to the crown on the death of an encomendero. Natives continued to be exploited in the New World.

		Pizarro and the Conquest of the Inca Empire	Revolt
to g	Date	Event	The Spani
	Dec 1518	Smallpox epidemic in Haiti.	puppet kin
	Sept 1520	First cases of smallpox in Mexico	their beh escaped f
nca	1525-1527	Smallpox spreads along the Caribbean coast.	assembled a the b
100	1527	Smallpox reaches Peru. Huayna Capac dies from smallpox after returning to help his people.	The Seige
ed ich	1529	Civil War breaks out between Huascar and Atahuallpa (Huayna Capac's son).	-10,000 Inc Spanish an -The Inca
by	April 1532	Huascar is captured and killed. Atahuallpa takes over Cuzco.	town , burn
led 9,	Nov 1532	The Battle of Cajamarca – Pizarro's men hid in the town square of Cajamarca. When Atahuallpa's men entered the town they met with a priest who showed them a bible. Atahuallpa threw the bible on the floor which was the signal needed for Pizarro's men to attack and they took Atahuallpa prisoner.	drive out t Spanish wer -The Spanish attack t -The Spanish of Sacsahua
	July 1533	Atahuallpa promised to fill his prison with treasure in order to secure his release. Although he did this, the Spanish still sentenced him to death. On 26 <sup>th</sup> July he was garrotted.	which th -The siege forces explo
	1533	Manco made puppet ruler of the Inca Empire.	-Manco with a separate l
Foi	unding of La Pa	z. 1548	ι

#### Founding of La Paz, 1548

La Paz was founded to symbolise the end of the revolt and to demonstrate that Spain had the overall authority in the New World, not the conquistadors.

It became the administrative centre of the Spanish Empire. The Viceroy and the audiencias (courts) were based here. It was founded close to trade routes to ensure it maintained control over the silver mines based in Potosi and Oruro.

Discovery of silver in Bolivia and	Conquistador Revolt in Peru 1544
Mexico	A serious revolt took place as the
By 1550 silver had been discovered in Potosi (Bolivia) and in Guanajuato and Zacatecas (Mexico). Some was sent	encomenderos were unhappy with the New Laws. This revolt was led by Gonzalo Pizarro, brother of Francisco Pizarro. It was a success and Gonzalo ruled over the
back to Spain but most was kept by the conquistadors. Large mining towns developed to house workers for the mines. Colonisation of the New World	Inca territory for 2 years. The arrival of a Spanish army resulted in his execution and the restoration of Spanish authority.
increased as adventurers, merchants, speculators and their employees came in search of wealth. 25% of silver shipped to Spain went	The revolt raised the issue of control. Spain needed to govern its territories and control the rebellious conquistadors and encomenderos. This led to the founding of
straight into the treasury.	La Paz in 1548.

#### **Pirates and Privateers**

Spanish treasure was a target for Pirates and Privateers (funded by government/monarchy).

The ships were easy to find as they took well-defined and predictable routes across the Atlantic.

War with France (1542-46) meant Spain had to adapt ships and develop systems to deal with French privateers.

Galleons patrolled the sea routes and started carrying treasure as they were well armed.

Treasure fleet system developed: the Tierra Firme (went to S. America) and the New Spain (went to Mexico).

#### t of the Incas 1536

nish saw Manco as a ng who would rule on ehalf. When Manco from the Spanish he an army and attacked base at Cuzco.

#### of Cuzco 1536-1537

ca warriors faced 150 nd 1000 native allies. warriors broke into ning buildings to try to the Spanish, but the ere able to put the fires out. h used their cavalry to the Inca warriors. h captured the fortress aman from the Incas. the Inca army then besieged.

ended when Spanish loring Chile returned. thdrew and established kingdom which lasted until 1572.

#### Growth of Seville

All goods imported to Europe had to go through Seville. Merchants travelled from all over Europe to buy and sell goods. This gave Spain a monopoly over trade with the New World.

#### The Slave Trade

Due to the number of deaths of natives in the New World, there was a labour shortage. Under the Treaty of Tordesillas, Spain could not directly get slaves from W. Africa. Spanish merchants could get licences (asientos) to supply slaves to the New World. Licences sold to the highest bidder who could then buy from Portuguese merchants and sell to merchants in the New World.

#### Casa de Contratacion (House of Trade)

Established in 1503 by Isabella. Collected colonial taxes. Approved voyages of exploration and trade and kept secret information on new lands and trade routes. Licenced captains of ships.

In theory, no Spaniard could sail anywhere without the approval of the Casa.

#### **Council of the Indies**

Formed in 1524 and based in Spain. Controlled all matters concerning the New World. Messages received from Viceroys would be discussed and advice given to the King. Decisions made were sent from the Council to the Viceroys. This was Spain's way of trying to maintain control over its empire in the New World.

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and business.     Galleons patrolled the sea     Treasure fleet system					Spain had to ad	ant chins and		
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instead of making products treasure as they were well (went to S. America) and the	wealthy by finding bullion instead of making products		routes and started	l carrying	developed	l: the Tierra Firme		
and selling. armed. New Spain (went to Mexico).								





Keywords		What we are learning in this unit		Α.	6 Articles of Faith			
Tawhid	The belief in Islam that	A. 6 Articles B. 5 Roots c	of Faith If Usul Ad-Din		Article of fait	h	What is it?	
	there is only one God who created everything	C. Sunnah a D. Risalah	and Hadith		1: Belief in o	ne God	Allah is the creator and sustainer of life. There is no God but Allah	
Omnipotent	God is all powerful and " <mark>has power over</mark> everything"	F. Nature of G. Qu'ran	alms and Gospels Allah salms and Gospels		2: Belief in A	ngels	Angels do the work of Allah and do not have free will like humans. They obey Allah	
Immanent	God is active in the world and involved in its' creation.	I. Angels J. Al Qadir K. Day of Ju	dgement, Paradise and I	Hell	3: Belief in G	od's revealed books	The Torah, the Psalms, the Gospels, the Scrolls of Abraham and the Qur'an.	
Transcendent	God is outside of time and space. God cannot age or		's of Usul Ad-Din Jsul ad-Din are central to th	e Shi'a Muslim faith.	4: Belief in th	ne messengers of God	Prophets and messengers are chosen by Allah to deliver His message to humankind	
	die or be located in one place.	Root         What is it?         Quote		5: Belief in th	5: Belief in the Day of Judgement people stand in front of and are sent to Heave			
Beneficient	Allah is compassionate, caring and good	1: Tawhid	The belief in the oneness of Allah	"He is <mark>God the</mark> One, God the eternal" Surah	6: Belief in p	Belief in pre-destination Allah knows everything. Everything is ordered by A		
Sunnah	The traditions and practices of the Prophet			112		· · · · · · · · · · · · · · · · · · ·	nothing is random or by chance	
	Muhammad	2:	Belief in	"We sent	C.	Sunnah and Hadith		
Qur'an	The Islamic sacred book	Nubuwwah	chain of messengers	ssengers every community" Surah 16				
Hadith	A collection of traditions and sayings of the Prophet Muhammad		from Adam to Muhammad		Sunnah	Prophet Muhar		
6 Articles of Faith	6 basic beliefs that shape the Islamic way of life	3: Adl	Allah is just (fair) and will bring Divine Justice	"I advise you to being just towards both friend and foe"		The Sunnah an	ample for Muslims to follow d Hadith are sources of uthority alongside the Qur'an	
5 Roots of Usul	5 rules which explain how			Imam Ali	Hadith • Reading the Hadith helps a Muslim to lea			
Ad-Din	Muslims should act in daily life	4: Imamah	A term for God-given	"obey God and the Messenger,		from the Qur'a		
Akhirah	Belief in the afterlife	and the		and those in authority among	The Hadith ma understand		kes the Qur'an easier to	
Al Qadr	Al Qadr Supremacy of God's will and The belief in predestination which is slightly different for Sunni and Shi'a Muslims			you	What does	The Suman covers many areas of me		
			The day of judgement and resurrection	"His is the <mark>judgement</mark> ; and to Hjm you shall be returned"	<ul> <li>the Sunnah tell</li> <li>Muslims?</li> <li>It provides a guideline for Muslin</li> <li>There is a Sunnah for everything</li> </ul>			

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Keywords	What we are learning in this unit		A.	6 Articles of Faith	
Tawhid	A. 6 Articles of Faith B. 5 Roots of Usul Ad-Din C. Sunnah and Hadith D. Risalah	<ul><li>B. 5 Roots of Usul Ad-Din</li><li>C. Sunnah and Hadith</li></ul>			What is it?
Omnipotent	E. Muhammad F. Nature of Allah G. Qu'ran H. Torah, Psalms and Gospels		2:		
Immanent	J. Al Qadir K. Day of Judgement, Paradise	e and Hell	3:		
Transcendent	B. 5 Roots of Usul Ad-Din		4:		
Transcendent	Root What is it?	Quote	5:		
Beneficient	1:		6:		
Sunnah	2:		C.	Sunnah and Hadith	
Qur'an					
Hadith	3:				
6 Articles of Faith					
5 Roots of Usul Ad-Din	4:				
Akhirah					
Al Qadr	5:				





D.	Risalah (Prophethood)	)	E	Torah, Psalms and Gospels		
What is it	Every Islamic pr	there has been 124,000 prophets ophet preached Islam and key beliefs Iam, the last was Muhammad (Box E)	Psalms (Zabur)	<ul> <li>The Psalms of Dawud are a collection of prayers to Allah</li> <li>They contain lessons of guidance for the people</li> </ul>		
Why are prophets important? Adam	<ul> <li>Prophets are guided by Allah</li> <li>Their love of Allah stops them from sinning</li> <li>Some prophets are messengers who have been given revelation of news</li> <li>The first prophet</li> </ul>			<ul> <li>This is the good news about Isa (Jesus)</li> <li>Muslims highly respect Isa because there are revelations in the Qur'an about him</li> <li>Muslims believe he was the Masih, he was not the son of Allah, he was not crucified, he did not die to save sins</li> <li>The gospels contain some mistakes because they were written many years after Isa died</li> </ul>		
	<ul><li>He taught about</li><li>He taught life on life</li></ul>	The father of all humankind He taught about the work of Iblis and how to protect themselves He taught life on Earth was temporary, eternal life is in the next		<ul> <li>The Tawrat is the Arabic word for the Torah</li> <li>These are the revelations given to Moses by Allah on Mt Sinai</li> <li>The Qur'an refers to the Tawrat as "guidance and light"</li> </ul>		
<ul> <li>Ibrahim</li> <li>Ibrahim was told in a dream to sacrifice Isma'il as a test of faith <ul> <li>remembered at Hajj every year</li> <li>His son Isma'il is the ancestor of the prophet Muhammad</li> </ul> </li> </ul>			Scrolls of Ibrahim	<ul> <li>Revelations received by Ibrahim on the first day of Ramadan</li> <li>Contained stories about workship and reflection</li> <li>Not a book, individual revelations</li> </ul>		
	F.	The Nature of Allah				
Tawhid       • There is only one God and this God has no e         • He created everything.       • Only He should be worshipped: worshipping         • "There is no God but Allah, and Muhamm       • "Allah witnesses that there is no deity exe         • "Do they not see that Allah, who created a raise the dead to life?"			other Gods is ad is his me ept Him"	s a sin called <b>shirk.</b> ssenger". and the Earth and was not wearied by their creation, has the power to		
2: Omnipotent		Allah is all powerful and has power over everythi	ng			
3: Immanence		Allah is active in the world and able to control ev	rents			
4: Transcendent       • Allah is outside of the universe         • Not limited by time or space						
5: Beneficience God has love and good will		God has love and good will				
6: Mercy  • "In the name of Allah, the most compass • God is forgiving and caring			ionate, the most merciful"			
7: Fairness and	justice	<ul> <li>Allah is fair to all people</li> <li>Allah has sent the same message to all prophets</li> <li>Allah will ensure that judgement is fair and punis</li> </ul>		ans numerous opportunities to submit to the will of Allah itable		



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





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



	Year 11 GCSE Religious Education KO - Islam Beliefs							
G.	Qur'an	I.	Angels					
Revelation		What are they?						
		What do they do?						
Authority								
What does it contain?		Jibril						
Supreme authority		Mika'il						
К.	Day of Judgement, paradise and Hell		J.	Al Qadir				
What will happen ?								
				E.	Muhammad			
Jannah			Why wa	as he chosen?				
Entry to Jannah			prophet					
Jahann am			Why is importa	Muhammad ant?				

	GCSE unit 1 SPANISH Knowledge organiser. Topic Me my family and friends				Key Verbs						
What we are learni		1.1F Hablando de los amigos		Llevarse to get on	<u>lr</u> To go	Soportar To stand		<u>Hacer –</u> to do/make	Discutir - to argue		
A. Talking about your family B. Describing your family and friends		a menudo ofte	often to be happy about understanding to know a person advice thing to look after argument good fun selfish	Me llevo I get on	Voy I go	Soporto I can stand		Hago I do	Discuto I argue		
<ul> <li>C. Explaining family relationships</li> <li>D. Describing relationships</li> <li>E. Describing future plans</li> </ul>		comprensivo/a conocer el consejo		Te llevas You (s) get on	Vas You go	Soportas You can stand		Haces You do	Discutes You argue		
F. Translation practice		la cosa cuidar la discusión divertido/a egoísta		Se lleva He/se gets on	Va s/he goes			Hace s/he does	Discute He/she argues		
6 Key Words for this term     1. Me llevo bien     4. El año próximo				Nos llevamos They get on	Vamos Soportamos They go W can stand			Hacemos We do	Discutios We argue		
<ol> <li>No soporto</li> <li>discuto</li> </ol>	5. Por otro lado 6. Voy a…	el equipo escribir fastidiar	team to write to annoy, to bother	Se llevan They get on	Van They go	Soportan They can s	tand	Hacen They do	Discuten They argue		
1.1G ¿C	cómo es tu familia?	fuerte hablador/a	strong talkative	1.1H Relac	1.1H Relaciones con la familia			1.2F Planes para el futuro			
los abuelosgra alegrealegrehaj alto/atall anableamablekim anciano/aold la barbala barbabe calvo/abal cariñoso/acalvo/abal casi nearly,alm corto/acorto/abrd corto/abrd corto/adelgado/athii las gafasgla gracioso/agracioso/afur guapo/agoo El/la hermano/aEl/la hijo/ason	randfather/grandmother randparents appy all ind Id eard ald ffectionate, tender Imost rown hair colour hort	honrado/ahonestmaduro/amaturemismo/asamepeligroso/adangerousreírseto laughseguro/acertain, sureel sentido del humor sense of humourtravieso/anaughtytristesadel veranosummerla vidalife1.1H Relaciones con la familiaabierto/aopenaconsejarto adviseactualmentenowadaysaguantarto bear, to put up witharreglarto tidyla barrera generacionalgeneration gap	parecido/a       similar         la pelea       fight         perezoso/a       lazy         provocar       to cause         el sobrino / la sobrina       nephew, niece         tender a       to tend to         todavía       still         tratar       to treat         triste       sad <b>1.2G Hablando de parejas</b> el beso       kiss         cada vez más       more and more         cocinar       to cook         comprar       to buy         echar de menos       to miss someone         enamorado/a       in love         los familiares       relatives         feliz       happy			así queso, thereforela bodaweddingbuscarto look forcambiarto changeel casamientoweddingcasarseto get marriedel compañero/acolleague, frienddecepcionado/adisappointedencontrarto findla felicidadhappinessla fiestaparty, festivalpor esothereforepróximo/anextel sitioplacesolo/aalone, onlysoltero/asingletener suerteto be luckylas vacacionesholidaysya nono longer					
liso/a s	5		el cariño affection celoso/a jealous la culpa blame, fault		people guest		1.2H Las relaciones de hoy en día				
los ojos el padrastro se las pecas fi pelirrojo/a el pelo la tía el tío viejo/a el tío de las	eyes stepfather freckles red-haired hair curly aunt uncle old sensitive	los demás harto/a el hogar hoy en día incluso injustamente juntos la libertad manera molestar oír hablar de	others fed up home nowadays even unfairly together freedom way to bother to hear about	maleducado/a el marido el matrimonio la mujer la novia el novio parecer la pareja los parientes pelear(se) el piso serio/a	rude husband marriage wife, woman girlfriend, fiancée boyfriend, fiancé to seem partner relatives to fight flat, apartment serious, responsible		distii en c en p la ec esta el/la paga la pa	ien a cara nto/a ontra urimer lugar dad r de acuerdo jubilado/a ar	now someone face to face different against in the first place, age to agree retired person, to pay partner ekin		
		olvidar orgulloso/a	to forget proud	serio/a sonreír	serious, resp to smile		la pi por o	el otro lado	skin on the other hand		

	GCSE Unit 2 SPAN			Key Verbs						
	•	Logy in Everyday Life           2.1F ¿Cómo prefieres mantenerte en contacto?		Descargar To download	<u>Subir</u> To upload	<u>Mandar</u> To send		<u>Hacer –</u> to do/make	Chatear To chat	
<ul> <li>What we are learning this term:</li> <li>A. Saying how you keep in touch via the internet</li> <li>B. Picking out key words when reading</li> <li>C. Giving opinions about online messaging</li> <li>D. Talking about using a mobile</li> </ul>		comunicarseto communi unfortunatel empezarempezarto start to startescogerto choose genialgratísfree of charge fact	to communicate	Descargo I download	Subo I upload	Mando I send		Hago I do	Chateo I chat	
			to start to choose brilliant / great free of charge fact	Descargas You download	Subes You upload	Mandas You send		Haces You do	Chateas You chat	
E. Give opinions about mobile technology				descarga He/she download	sube He/she uploads			Hace s/he does	Chatea He/she chats	
6 Key Words for this te     1. chateo     2. redes sociales	4. sala de chat 5. descargar	el inconveniente interactivo/a el jefe / la jefa la letra mandar los medios sociales		Descargamos We download	Subimos We upload	Mandamos We send		Hacemos We do	Chateamos We chat	
3. en línea	6. subir			Descargan They download	suben They upload	Mandan They send		Hacen They do	Chatean They chat	
2.1G Comunicarse por internet		el móvil ofrecer	mobile phone to offer	2.2F La tecnología portátil			2.1H Las redes sociales			
colgar fotos el correo electrónico demasiado/a hablar increíble justo/a el país un poco propio/a la razón la red la red social la sala de chat la salida	sometimes there to chat online to post photos email too much to speak / talk incredible fair country a Little own reason internet / network social network chat room outing every day to use to use time	el ordenador       computer         la pantalla       screen         poder       to be able to         por desgracia       unfortunately         por mi parte       as far as l'm concerned         la revista digital       digital magazine         sencillo/a       simple         tampoco       neither / nor         Aunque         although         dar       to give         dar las gracias       to thank         enviar       to send         el juego       game         lento/a       slow         el mensaje de texto text message       el móvil         noviel phone       navegar la red		andarto walkarchivofileborrarto delete, erasela canciónsongcargarto loadcontestarto answerel correo basuraspam, junk mailcualquieranyde vez en cuandofrom time to timeel disco durohard driveel espaciospaceigualsameel ordenador portátillaptopsacar fotosto take photossentirto feella tabletatabletla tecnologíatechnology		a mi juicio in my opinion acosar to bully el acoso bullying apasionar to excite aun even bajo low compartir to share el comportamiento behaviour el desarrollo development la desventaja disadvantage divertirse to have a good time gratuito/a free of charge mejorar to improve el riesgo risk el/la seguidor/a follower tener éxito to be successful el/la usuario/a user				
2.2H ¿Podrías vivir sin el móvil y la tableta?		la norma rule prohibido forbidden el regalo present, gift la regla rule ridículo/a ridiculous roto/a broken único/a only		la conexión inalámbrica wireless connection chatear to chat online correr to run darse cuenta de to realise en vez de instead of las felicidades best wishes, congratulations felicitar to send best wishes/to congratulate hasta until imprescindible essential preocupar to worry						

: <b>6</b> :	GCSE Unit 3 SPANISH Knowledge organiser. Topic Free Time Activities			Key Verbs						
What we are learning	•		ces en tu tiempo libre?	Salir To go out	<u>lr</u> To go	<u>Jugar</u> To play		<u>Hacer –</u> to do/make	Tocar To play (ins)	
<ul><li>A. Talking about free time</li><li>B. Talking about your plans for the weekend</li></ul>		a veces bastante	bastante quite		Voy Juego I go I play			Hago I do	Toco I play	
D. Talking about spe	<ul><li>C. Talking about eating out</li><li>D. Talking about special occasion meals</li></ul>		each, every to have an evening meal to chat	Sales You go out	Vas You go	Juegas You play		Haces You do	Tocas You play	
F. Talking about spo		descansar	el coro choir descansar to rest los dibujos animados cartoons	Sale He/she goes out	Va Juega s/he goes He/she plays			Hace s/he does	Toca He/she plays	
6 Key Words for this		el documental	documentary	Salimos	Vamos Jugamos			Hacemos	Tocamos	
<ol> <li>disfrutar</li> <li>jugar</li> </ol>	4. campeones 5. formentar	el fin de semana genial	weekend great	We go out	They go	We play		We do	We play	
3. los deportes	6. a selección	las noticias nunca	news never	Salen They go out	Van They go	Juegan They play		Hacen They do	Tocan They play	
	te gusta hacer?	ocupado/a policíaco/a	occupied, busy police, detective, crime	3.2G (	Comer y Beber		3.1		tiempo libre y de	
bailarto ccantarto sel cinecinede vez en cuandofrorentretenido/aentestimulantechajugarto pleerto rlibrefreeodiarto hla películafilmpracticarto psalirto pla tardeafteel tecladokeytocarto to to	hate	la telenovela terminar el tiempo todo/a/os/as tonto/a la vez 3.2G C el (fem.) agua (min beber	to put in general always theatre soap opera to finish time all, every silly, stupid time, occasion Comer y Beber neral) (mineral) water to drink sandwich meat evening meal	el perrito caliente el pescado el pollo el postre el queso la sopa el té tomar drink) la tortilla la tostada el vaso las verduras <b>3.2F Vam</b> el atún el bacalao la barra	el pescadofishel pollochickenel postredessert, puddingel quesocheesela sopasoupel téteatomarto take, to have (food,drink)itottillala tortillaomelettela tostadatoastel vasoglasslas verdurasvegetables3.2F Vamos a comer fuerael atúntunael bacalaocod			los planesaburrido/aboringagradablepleasantal aire librein the open air,outdoorsin the open air,la bateríadrumsla canciónsongdar un paseoto go for a walkde vez en cuandofrom time to time,occasionallydesafiantechallengingdivertido/adivertido/afunemocionanteexciting3.3F ¿Qué deportes harás?el alpinismorock climbingcansado/atiredla carrerarace		
3.3G ¿Haces o	deporte?	cenar an evening meal	to have supper / to have	el bistec los calamares	steak squid		el con (cont		competition	
3.3G ¿Haces deporte?activo/aactiveal aire librein the open air,outdoors		comer la comida desayunar el desayuno después el helado el huevo el jamón la leche las legumbres la mantequilla la manzana la mermelada las patatas fritas	cenarto have supper / to havean evening mealcomerto eatla comidalunch, food, mealdesayunarto have breakfastel desayunobreakfastdespuésafterwardsel heladoice creamel heladoice creamel heladoice setla la lechemilkla la lechemilkla la legumbrespulsesla mantequillabutterla mermeladajam, marmalade		la cebollaonionel cerdoporkla cervezabeerlos champiñonesmushroomsel chorizochorizola chuletachopel corderolambel filetefilletla fresastrawberrylas gambasprawnsel gazpachochilled tomato souplos guisantespeasel jamón serranocured hamlas judías verdesgreen beans		el en entre el eq el ese este, gana el jug maña	nte rrcicio trenamiento nar uipo quí esta r ador ana embro rtido	to answer during exercise training to train team skiing this to win player tomorrow member match to try, to test	

GCSE Unit 4 SP	Key Verbs						
	ustoms and Festivals	Celebrar	<u>lr</u>	Disfrutar		Hacer –	<u>Disfrazar</u>
What we are learning this term:	4.1F Algunas costumbres regionales	To celebrate	<u>To go</u>	<u>To enjoy</u>		to do/make	<u>To dress up</u>
<ul><li>A. Learning about Spanish life and routines</li><li>B. Learning about local customs</li></ul>	la actuación performance agradable pleasant el ambiente atmosphere	Celebro I celebrate	Voy I go	Disfruto I enjoy		Hago I do	Disfrazo I dress up
C. Talking about a Spanish festival D. Learning about Latin American culture E. Skim reading for key information	antiguo/a old la batalla battle	Celebras You celebrate	Vas You go	Disfrutas You enjoy		Haces You do	Disfrazas You dress up
F. Using past expressions of time	el caballo horse la camisa shirt el concurso competition	Celebra – he/she celebrates	Va s/he goes	Disfruta He/she enjoy	s	Hace s/he does	Disfraza He/she dresses up
6 Key Words for this term     1. divertirse     4. el desfile	conmemorar to commemorate	Celebramos	Vamos	Disfrutamos		Hacemos	Disfrazamos
2. hispánico 5. celebrarse	la costumbre custom	We celebrate	They go	We enjoy		We do	We dress up
3. el turismo 6. los antepasados 4.1G La vida en familia	demasiado too much, too many el desfile parade, procession	Celebran They celebrate	Van They go	Disfrutan They enjoy		Hacen They do	Disfrazan They dress up
	el diablo devil divertirse to enjoy oneself	4.2G Las fiestas	de España – la	Tomatina		4.2F Las fiestas	del mundo hispano
a media mañana at mid-morning acostarse to go to bed el bollo bun la cena evening meal coger to catch la comida food, meal, lunch el desayuno breakfast la dieta diet la leche milk levantarse to get up ligero/a light participar to participate, to take part probar to try, to try out el recreo break saludable healthy la sobremesa sitting chatting at the table after a meal el trabajador worker la tradición tradition traer to bring tranquilamente calmly el vaso glass	emocionanteexcitingel encierrobull runencontrarto findenormeenormousentenderto understandentrenarseto trainel espectáculoshow, displayextraño/astrangefatalawfulformarto formhistóricohistorichumanohumanimpresionanteimpressiveincómodo/auncomfortablellevarto wear, take, carryel MediterráneoMediterraneanel/la moro/aMoor (historically aperson from North Africa)nadienadieno onenaturalel origenel origenoriginpasarlo biento have a good timeel peligrodanger	al final americano/a australiano/a británico/a el camión la camiseta el carnaval divertirse duchar empezar la entrada la foto la gente hace (+ tiempo) japonés/esa limitar limpiar llegar la manguera mojado/a el montón la plaza mayor	at the end American Australian British lorry T-shirt carnival to enjoy ones to shower to start (entry) ticket photo people (time) ago Japanese to limit to clean to arrive hose, hosepij wet, soaked heap, pile the main squa	De	apare el azu la cal celeb el cer cerca la ciu come comp desci el de el da disfra en ho ence el ess los fa famo la floo	ntepasados ecer úcar lavera orarse menterio a de idad enzar oletamente ribir sfile ablo azado opnor a ndido/a queleto taño amiliares iso/a	altar, shrine ancestors to appear sugar skull to be held cemetery close to, near to city, town to start completely to describe parade devil dressed up, disguised in honour of lit skeleton tin family members famous flower
4.1H ¿Cambian las costumbres?	peligroso/a dangerous por encima de over	primero/a pronto	first soon		hispá Span	anico iish speaking w	Hispanic (i.e. of the orld)
acostarseto go to bedcerrarseto closecogerto catchcorto/ashortempezarto starthace calorit is hotlevantarseto get upel maridohusbandla mayoríamajorityel ordenadorcomputer	precioso/a beautiful el producto product saltar to jump la seguridad safety, security la suerte luck el toro bull la torre tower el traje suit, costume único/a only, unique varios/as several vestirse (de) to dress (in)	rojo/a sucio/a típico/a tirar todo el mundo el tomate el turismo varios/as el/la visitante el/la voluntario/a volver	red dirty typical to throw everyone, eve tomato tourism several visitor volunteer to return, to g		el mo Mexio la mo muer	minero/a ble can chocolate s ontaña to rmalidad mero ata ger	mine miner 'mole' sauce / sauce mountain dead normality number silver to protect village, (small) town

	GCSE Unit 5 SPANIS Topic Home, Town, N			Key Verbs						
What we are learning th			ede hacer donde vives?	Vivir To live	alquilar To rent	Comprar To buy		<u>Hacer –</u> to do/make	Mudarse To move	
<ul> <li>A. Saying what your house is like</li> <li>B. Describing your house and where it is</li> <li>C. Talking about the amenities in your area</li> <li>D. Discussing the advantages and disadvantages of living in the town and</li> </ul>		el barrio neighbourhood, area la biblioteca library la bolera bowling alley		Vivo I live	Alquilo Compro I rent I buy			Hago I do	Me mudo I move	
		el bolso handbag la carnicería butcher's	Vives You live	Alquilas You rent	Compras You buy		Haces You do	Te mudas You move		
country	-	el césped el collar descansar	necklace to rest	Vive He/she lives				Hace s/he does	Se muda He/she moves	
6 Key Words for this te 1. vivir 2. alojamiento	rm 4. el hogar 5. la casa	el dinero money divertirse to enjoy opeself to		Vivimos We live	Alquilamos We rent	Compramos We buy		Hacemos We do	Nos mudamos We move	
3. alquilar	6. las afueras	el estanco stamps)	tobacconist's (also sells	Viven They live	Alquilan They rent	Compran They buy		Hacen They do	Se mudan They move	
5.1G M	li casa	la joyería la juguetería	jeweller's toy shop	5.1H Mi	i casa y mi barı	rio		5.1F ¿Cómo es tu casa?		
el ascensor lift la butaca armch la cocina kitche cómodo comfo compartir to sha el cuarto de baño bathro el dormitorio bedro los electrodomésticos (ele la escalera stairs el espejo mirror la estantería shelve el fregadero kitche la habitación room el lavabo washt la lavadora washi el avaplatos dishwa el microondas microo la nevera fridge la pared wall el salón lounge	ard, wardrobe hair n, cooker, cuisine rtable, convenient, handy re bom om ctrical) appliances es, shelving unit n sink basin ng machine asher wave oven e, living room hair d, floor	la tienda de comes	city, large town youth club Post Office to build oun) to become	abajo amplio/a arriba el balcón la calefacción la cocina amuebla el comedor el comercio imprescindible inferior el jardín lujoso/a la mascota la piscina la planta la planta baja superior la tienda la torre la vista	under, downs spacious, roc above, upsta balcony heating ada fitted kitcher dining room business, she essential, inc lower garden luxurious pet swimming po floor (of a bu ground floor upper, higher shop tower, tower view, sight	omy iirs, up n op lispensable ilding), plant r	antig el árk el cal field, el cha hous el est enco enco enco la gra guarc away la libu la mo el mu	uo o pol tr mpo c sports ground alet / chalé b e, villa sta c tante s ntrar tr ntrarse tr ntrarse con tr anja fa dar tr , to save rería b ontaña n ueble p uuebles fi	nutskirts ald ree countryside, aungalow, detached coast helf o find o be situated o meet up with arm o keep, to put cookcase, bookshop nountain biece of furniture urniture vorse	

	- 	GCSE Unit 6 SPANISH Knowledge organiser. Topic Social Issues								
	What we	e are learning th	is term:	][	6.1F Me	gustaría ayudar				
	<ul> <li>A. Talking about different ways of volunteering</li> <li>B. Talking about charities and voluntary work</li> <li>C. Talking about healthy eating</li> <li>D. Talking about healthy and unhealthy lifestyles</li> <li>E. Listening for different tenses</li> </ul> 6 Key Words for this term				agradecer aprender el asombro contar (que) el curso los/las demás esperar	to thank to learn amazement, surpris to tell, to relate school year, course the others, the rest to wait for, to hope,				
<ol> <li>un voluntario/a</li> <li>ecologista</li> <li>los sin techo</li> </ol>			4. comedor social 5. banco de alimentos 6. quiero		expect formar parte hacer la cama el centro de menor tutelados el idioma	to be part (of) to make the bed res children's home language				
	6	i.1G ¿Quieres s	er voluntario/a?		inútil propósito	uselessel aim, purpose, objec				
	arreglarto tidy, to fix, to arrangeayudar (a)to help (to)el banco de alimentosfood bankcharlarto chatel comedor socialsoup kitchenel concursocompetitioncultivarto grow, cultivatedisfrutarto enjoy				repartir tener sueño la tienda solidaria útil	to deliver, to hand o to be sleepy charity shop useful				
	ecologista la gente n	enviro	nmental		6.2G ¿	Comes bien?				
	hogar limpiar marcar (un necesitadi los necesi la organiz charity participar pasarlo bi proteger la residen los "sin ter el Tercer I	home to clea n gol) to sco o neede itados the ne ación benéfica c (en) to take en to hav to pro cia de ancianos cho" the ho Mundo the Th con fines benéfic solidaria	an re (a goal) d, required edy haritable organisation, e part (in) re a good time tect old people's home meless hird World os charity shop		acostarse las bebidas alcohó	to go to bed licas alcoholic drinks adas sugary drinks drunk pain, ache to get drunk to avoid greedy fat fatty, greasy				

rganiser.	Key Verbs							
e gustaría ayudar	Ayudar To help	<u>lr</u> To go	Soportar To stand		<u>Hacer –</u> to do/make	Limpiar To clean		
to thank to learn amazement, surprise to tell, to relate	Ayudo I help	Voy I go	Soporto I can stand		Hago I do	Limpio I clean		
	Ayudas You help	Vas You go	Soportas You can sta	ind	Haces You do	Limpias You clean		
school year, course the others, the rest to wait for, to hope, to	Ayuda He/she helps	Va s/he goes	Soporta He/she can s	Soporta He/she can stand		Limpia He/she cleans		
to be part (of) to make the bed res children's home language	Ayudamos We help	Vamos They go	Soportamos W can stand		Hacemos We do	Limpiamos We clean		
	Ayudan They help	Van They go	Soportan They can st	and	Hacen They do	Limpian They clean		
uselessel aim, purpose, objective	6.1H La impor	er obras		6.2H ¿Qı	ué opinas?			
to be sleepy charity shop useful ,Comes bien?	andar el bolsillo contribuir dar asco el dibujo donar en vías de extinction vías de extinction)	hreatened	ataqu auma el bo stree cada el ce el co	ue cardíaco d entar d tellón d t vez más d rebro d nsumo d	disgusting heart attack to increase drinking party in the more and more prain consumption heart			
to go to bed licas alcoholic drinks adas sugary drinks drunk pain, ache to get drunk to avoid greedy fat fatty, greasy e) to try to thief, robber unhealthy Muslim not healthy portion healthy healthy	escaso/a la exposición el ganador ganar gastar las instalaciones el medio ambiente las obras benéfica la pérdida perteneciente a el/la político/a los recursos seropositivo/a el sida temer		able works	cuan el/la la ed la en enfre grave hace el híg nociv partic pedir (som los p prohi prohi provo el pu reduc síndr abs el sol obes subir	to antes a drogadicto/a d ad a cuesta s ntar f ado a jado l o/a l cipar (en) f eone to do som rimeros auxilios bir f ocar f bir f ocar f stinencia brepeso d ity f aquismo a	as soon as possible drug addict age survey to face serious to injure, to harm iver harmful to take part (in) to ask (for), to ask ething)		

		GCSE Unit 7 SPANIS		rganiser.	Key Verbs					
	are learning th	•	Global Issues 7.1F Protegie	ndo el medio ambiente	Reciclar To recycle	<u>Ir</u> To go	<u>Apagar</u> To turn off		<u>Hacer –</u> to do/make	Encender To turn on
A. Talk		ng things, reducing waste	la basura	rubbish o consumo)(low-energy)	Reciclo I recycle	Voy I go	Apago I turn off		Hago I do	Enciendo I turn on
B. Talk envi	<ul> <li>B. Talking about ways of protecting the environment</li> </ul>		light bulb el combustible combatir	fuel to fight, to combat	Reciclas You recycle	Vas You go	Apagas You turn off		Haces You do	Enciendas You turn on
D. Talk	ing about home	lessness	la contaminación atmosférica		Recicla Sh/e recycles	Va s/he goes	Apaga He/she turns off		Hace s/he does	Encienda He/she turns on
1. la lib	ords for this te	4. el destrozo 5. violento/a	el desastre disaster R desconectar to disconnect, to unplug, W	Reciclamos We recycle	Vamos They go	Apagamos We turn off		Hacemos We do	Encendemos We turn on	
3. asis	samientos tir a	6. la culpa	switch off deshacer los desperdicios	to undo rubbish, refuse, waste	Reciclan They recycle	Van They go	Apagan They turn o	ff	Hacen They do	Enciendan They turn on
7		reducir, reciclar	la especie incluso	species even	7.2F Lo	os "sin techo"		7.1H Problemas ecológicos		
ahorrarto savela basurarubbishla bolsa de plásticoplastic bagel cartóncardboardcerrarto shut, to close,to turn off (tap)el contenedorcontaineren vez deinstead ofintentarto try tola latatin, can		inquietante luchar la medida medioambiental el motor los residuos salvar	worrying to struggle, fight measure, means environmental engine refuse, waste, rubbish to save		er to choose a lack r parte de to be part of amberro/a hooligan, lout, emaker			acercarse ato approachel agujeroholela aldea(small) villagealejarto move (something)further awayalejarse dealejarse deto move further awayfromamenazarto threaten		
	eciclado) (recyc	cled) paper	7.2G Lo	os necesitados	governmental organisation)			arruin	uinar to ruin	
la papelera wastepaper basket la pila battery el plástico plastic ponerse to put on (clothes) los productos químicos chemicals, chemical products el proyecto project recargable rechargeable reciclar to recycle	a favor (de) la alimentación nourishment,food la asistencia médic asistir a buscar contribuir la creencia la culpa	in favour (of) feeding, a medical care to attend to look for to contribute belief blame, fault	<ul> <li>no gubernamental)</li> <li>la pobreza poverty recoger to pick up robar to steal, rob</li> <li>el atasco el ave (marina) (fen el calentamiento global</li> <li>la capa de ozono el casco</li> <li>el atasco</li> <li>el atas</li></ul>			e (marina) (fem. entamiento g bal ba de ozono d sco h ntenar a ntral eléctrica p culación t	plobal warming poone layer helmet, hull (of ship) hoout a hundred power station raffic			
reutilizar la Tierra tirar	to reu Earth		la enfermedad en contra	illness against	7.2H Es importa	nte avudar a lo	os demás	cortar	r t	to constitute to cut, to cut off a greenhouse effect
tirar tratar de el vidrio	to pui to try glass	I, to throw away to	ready to faltar missing fresco	to be prepared to, to be to be lacking, to be fresh	el agua corriente ( bastar la comisaría consumir			frenar t to el humo smoke		o spread, to stretch o brake, to put a stop
			hace(n) falta la libertad (de pensamiento) merecer necesitar perder perezoso/a	to be necessary, to need freedom (of thought) to deserve to need to lose lazy	la corriente electricity supply crear la criminalidad cualquier(a) el empleo el/la encargado/a	(electric) curr to create crime any job person in cha		el inc la lluv la ma	endio f ria r ncha s rea negra c erte c el l	ire rain stain bil slick death evel bil tanker

el éxito

success

querer

to love

el/la pescador/a fisherman/fisherwoman

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GCSE	Unit 8	SPANISH	Knowle	edge	<mark>organiser.</mark>
	Το	pic Holiday	vs and	Trave	el 👘

А. В. С. D.	Talking about travelling to holiday destinations Talking about the weather Talking about holiday accommodation Talking about the regions of Spain Understanding tourist leaflets and websites					
E. Understanding tourist leaflets and websites 6 Key Words for this term						
1. 2. 3.	alojarse veranear la pensión	4. vacaciones 5. un folleto 6. el AVE				

What we are learning this term:

#### 8.1G ¡Me voy de vacaciones!

el aire acondicionado air conditioning el andén platform el asiento seat el autocar coach el AVE (tren de alta velocidad) high-speed train el avión plane barato/a cheap el barco boat la bici(cleta) bike, bicycle el coche car la consigna left-luggage office el crucero cruise desde luego of course echar de menos to miss Escocia Scotland estrecho/a narrow el equipaje luggage el ferrocarril railway el invierno winter la maleta suitcase el metro underground non smoking no fumador el otoño autumn la primavera spring la sala de espera waiting room Sudamérica South America el tranvía tram las vacaciones holidays el verano summer viajar to travel el viaje journey

8.1F ¿Dónde te alojas? el abrebotellas bottle-opener el abrelatas tin-opener el aeropuerto airport a la derecha on the right a la izquierda on the left el alberque juvenil youth hostel Alojarse to stay (in a hotel) el bañador swimming costume la cama de matrimonio double bed camping campsite, camping la estación de servicio petrol station la estrella star awful, terrible fatal leaflet el folleto la gasolina (sin plomo) (unleaded) petrol el guía / la guía guide (person) la guía guidebook la habitación (doble/ (double/single) room individual) la llave key moiarse to get wet la oficina de turismo tourist office el papel higiénico toilet paper el parador state-owned hotel (in Spain) el pasaporte passport la pensión boarding house, B & B ponerse en camino to set off por desgracia unfortunately la recepción reception la reserva reservation el saco de dormir sleeping bag los servicios toilets la tarjeta de embarque boarding card la tienda (de campaña) tent la taquilla ticket office

#### 8.2G ¿En qué región vives?

el clima climate

el desempleo unemplovment la diversión entertainment muy poblado crowded nacer to be born I was born Nací he/she was born nació el país country Pescar to fish river el río mountain range la sierra tanto so much, so many

			Key Ve	rbs					
	Quedarse To stay	<u>lr</u> To go	Veranear To summer ho	liday	Hacer – to do/make	Volar To fly			
	Me quedo I stay	Voy I go	Veraneo I summer ho	liday	Hago I do	Vuelo I fly			
	Te quedas You stay	Vas You go	Veraneas You summe	. hol	Haces You do	Vuelas You fly			
	Se queda He/she/it stays	Va s/he goes	Veranea He/she summe	er hol	Hace s/he does	Vuela He/she/ it flys			
	Nos quedamos We stay	Vamos They go	Veraneamos We summer h	ol	Hacemos We do	Volamos We fly			
	Se quedan They stay	Van They go	Veranean They summer	hol	Hacen They do	Vuelan They fly			
ı	8.2F U	8.2F Un folleto turístico			ا يQué hiciste y q durante las v	ué te gustaría hacer acaciones?			
m	cargar to load cerrar to close la cocina cuisi conocer to kno el cultivo crop entero/a entire gruñón/oña gr ir de paseo to la mina mine el monasterio el monte hill, r la oveja sheer Pintoresco pio recomendar to el recuerdo m la refinería (de pe la sombrilla su el taller worksi	t, reserved e, shut ine, cooking ow (a person /a e, whole umpy go for a walk monastery nountain o turesque o recommend emory, reminde etróleo) (oil) n unshade, paraso	r,souvenir refinery	aburrirse to get bored acabar de (+ infinitive) to have just (done something) broncearse to get a tan coger to catch, to take el crucero cruise descansar to rest el esquí acuático water skiing extranjero/a foreign el extranjero (en el, abroad al) Francia France genial brilliant, great Grecia Greece la insolación sunstroke la isla island las Islas Canarias Canary Islands a mediados de in the middle of (time) el Mediterráneo Mediterranean					
	la vaca cow	acerui		el orc la pla regre	ta silver				
	el valle valley el/la visitante	visitor		relaja	rse to relax	ide parasol			
	8.2H Describier	ndo tu región		la sombrilla sunshade, parasol el vestuario changing room, cloakroom					
	acostumbrado/a accustomed to, used (adj) to la barca pesquera fishing boat casero/a home-made la cita amorosa date (with someone)				la vida nocturna night life volver to return el vuelo flight colocar to place, to put la empresa company, firm la época era, age, time				

			6H Knowledge organiser. My Studies	
What we	are learning th	-	9.1F ¿Cómo ser buen estudiante?	A T
B. Talk C. Talk rout D. Talk	king about your s king about your s ine	school life and daily I rules and uniform	abrir to open Afectar to affect el apoyo support aprender to learn los apuntes notes asistir a to attend	A I A Y A
6 Key Words for this term			la biblioteca library el/la compañero/a classmate	Н
1. asig 2. nota 3. apro		4. suspender 5. licienciatura 6. elegir	completar to complete Consultar to consult el debate discussion los deberes homework	A W A
9.1G El instituto y las asignaturas			el diccionario dictionary la duda doubt, query	Т
el arte dra la asignatu la carrera las ciencia la clase la cocina continuar los debere dejar to el dibujo difícil d divertido/a la educaci Escoger el español estudiar fácil ea el francés la geograf la historia el inglés	imático dram ura subject career, unive as science class cooking, food to continue, c es homework o drop art lifficult, hard a fun to física PE to choose I Spanish to study asy French ía geography history English	a rsity course technology carry on	el ejercicio exercise entender to understand la escuela school Esperar to hope, to wait, to expect el examen, exámenes exam, exams la excursión trip faltar a clase to miss lessons la frase sentence Intentar to try interrumpir to interrupt el instituto school levantar la mano to raise your hand la literatura literature llevar to take, to carry, to wear mejorar to improve mirar to look at el mundo world necesitar to need la nota grade ofrecer to offer el ordenador computer organizar to organise	el rer sa sa m se sa m se la el la U el pi la se S u:
las matem práctico/a próximo/a la seleccić Útil use	practical next ón choice		la palabra word la pantalla screen participar to take part pedir to ask for, to request pegado/a a glued to perder to lose, miss la pizarra blackboard la pizarra interactiva smartboard Preguntar to ask el/la profesor(a) teacher el progreso progress la prueba test Repasar to revise	la

		Key V	erbs					
Aprobar	<u>Elegir</u>	<u>Suspender</u>		<u>Estudiar</u>	Pensar			
To pass	To choose	To fail		To study	To think			
Apruebo	Eligo	Suspendo		Estudio	Pienso			
I pass	I choose	I fail		I study	I think			
Apruebas	Eliges	Suspendes		Estudias	Piensas			
You pass	You choose	You fail		You study	You think			
Aprueba He/she/it passes	Elige He/she/it chooses	Suspende He/she/it fail	S	Estudia He/she/it studies	Piensa He/she/it thinks			
Aprobamos	Elegimos	Suspendemo	S	Estudiamos	Pensamos			
We pass	We choose	We fail		We study	We think			
Aprueban	Eligen	Suspenden		Estudian	Piensan			
They pass	They choose	They fail		They study	They think			
9.1F ¿Cómo	ser buen estud	iante?		9.1H ¿Qué tal	el instituto?			
el repaso revision				el/la alumno/a pupil				
responsable responsible				antiguo/a old				
resultar en to end up with, to lead to				asustado/a frightened				
saber to know				asustar to frighten				
sacar buenas / to get good / bad grades				el atasco traffic jam, blockage				
malas notas				atento/a attentive				
serio/a serious				el aula (fem.) classroom				
las tareas homework				ayudar to help				
el trabajo work, piece of work				buscar to look for				
la tutoría tutorial				cambiar to change				
Usar to use				cansado/a tired				
el vocabulario vocabulary				conocer to meet, to get to know				
9.1H ¿Qı	ié tal el institut	o?	contento/a glad, happy contestar to answer el curso school year, course					
preocupar to w la sala de informá sencillo/a simp Sentirse to fee usar to use el viaje journey la zona área	ole I		los d deter distin la em enco encir enco explit feo/a el gir hamt el idit inme el lat largo mejo nervi el pa	eberes homev iorado/a dilap ito/a different noción exciter cionante exciti na on top ntrar to find car to explain ugly nnasio sports oriento/a hung oma language nso/a immens poratorio labor /a long r better oso/a anxious	work idated, shabby hent ng hall, gym ry se atory s, nervous he school yard,			

	GCSE Unit 10 SPANISH Knowledge organiser.			Key Verbs				
1002	Topic Life at	School and Coll	ege	J				
What we are learning this term:           A.         Talking about your school and daily routine		10.1F Las	reglas y el uniforme diary, planner	Acabar de To have just finished	To have just To improve To		Maquillarse To put makeup on oneself	
<ul> <li>B. Talking about your school rules and uniform</li> <li>C. Translating into English</li> <li>D. Revising 'se debe', 'hay que', 'tener que'</li> <li>E. Using questions to help your answer</li> </ul>		el apellido el artículo la ausencia buscar	surname article absence to look for	Acabo de I have just finished	Mejoro I improve	Me maquill I put make		
F. Using quanti	fiers and intensifiers this term	el chicle el daño dejar	chewing gum harm to let, allow	Acabas de You have just finished	Mejoras You improve	Te maquilla You put ma on		
<ol> <li>acabar de</li> <li>actuar</li> <li>la ausencia</li> </ol>	4. demostrar 5. las instalaciones 6. el maquillaje	demostrar el edificio escolar firmar el individuo	to show, demonstrate building school (adj.) to sign individual	Acaba de He/she it has just finished	Mejora He/she/ it improves	Se maquila He/she/it put make up on	S	
10.1G El día en el instituto         acabar de       to have just done something		las instalaciones el intercambio llevar	facilities exchange to take, carry, wear	Acabamos de We have just finished	Mejoramos We improve	Nos maquilla We put make		
actuar to perform el aire libre the open air aislado/a isolated el/la alumno/a pupil		el maquillaje los materiales mientras el nombre	make up materials while name	Acaban de They have just finished	Mejoran They improve	Se maquila They put m up on		
aprender la asignatura el bachillerato el bocadillo bonito campo de deportes la clase el/la compañero/a corto/a durar empezar el equipo	to learn subject A-level equivalent sandwich lovely s sports field class classmate short to last to start, to begin team, equipment	la palabra el pasillo el pendiente ponerse en contac prohibido la puntualidad la regla el respeto sufrir traer el trayecto el uniforme	word corridor earring cto to get in touch prohibited, banned punctuality rule respect to suffer to bring journey uniform	10.1H Lo bueno el acoso aguantar aislado/a alegrar up aprobar el aspecto la calefacción el castigo	y lo malo del bullying to put up with isolated to brighten up to pass an exa appearance heating punishment	, to cheer	10. trav beh el tr ya c el fr golp hac incó la in	
el estante la evaluación funcionar ganar ir al baño el juego de mesa la hora de comer el laboratorio la obra de teatro la opción la oportunidad pasar la lista el producto químico	shelf assessment to work, to function to win to go to the bathroom board game lunch hour laboratory play option opportunity to take the register			el comportamiento la conducta corregir cumplir con en cuanto a encenderse enfadado/a enseñar el equipo la espalda el estante la explicación	behaviour behaviour to mark, to con to fulfil as regards to be turned o angry to teach, show equipment back shelf explanation	'n	la pi mej mol el oc la pa recc el re suci tard	

Mejorar To improve	Maquillarse To put makeup on oneself		<u>Hacer –</u> to do/make	Ofrecer To offer
Mejoro I improve	Me maquillo I put make up on		Hago I do	Ofrezco I offer
Mejoras You improve	Te maquillas You put make up on		Haces You do	Ofreces You offer
Mejora He/she/ it improves	Se maquila He/she/it puts make up on	5	Hace s/he does	Ofrece He/she/it offers
Mejoramos We improve	Nos maquillamos We put make up on		Hacemos We do	Ofrecemos We offer
Mejoran They mprove	Se maquilan They put make up on		Hacen They do	Ofrecen They offer
lo malo del	instituto	10.1	H Lo Bueno y I	o malo del instituto
pullying o put up with solated o brighten up, to cheer o pass an exam appearance heating punishment behaviour o mark, to correct o fulfil as regards o be turned on angry o teach, show equipment back shelf explanation		ya qu el fra golpe hace incón	ved nestre t caso f far t falta i nodo/a u midación t arra t star t o l red v dar t paso r /a o	haughty, badly erm since, as ailure o hit t is necessary uncomfortable bullying digital smartboard o improve o disturb, to annoy eisure vall o remember evision dirty o take time, to delay

	GCSE Unit 11 SPANISH Knowledge organiser. Topic Education Post - 16			Key Verbs						
		11.1F ¿Trabajar o estudiar?		Aprender	lr	Querer		Preparar	Dar Dar	
What we are learning thi	s term:	11.1F ¿Tra	ibajar o estudiar?	<u>To learn</u>	<u>To go</u>	To want		<u>To prepare</u>	<u>To give</u>	
	t 18: work or university?	considerar demostrar la desventaja	to consider to show, demonstrate disadvantage	Aprendo I learn	Voy I go	Quiero I want		Preparo I prepare	Doy I give	
C. Talking about differen D. Looking for and apply E. Using a variety of ten	ying for jobs	estar harto/a de estar obsesionado	to be fed up with /a con to be obsessed	Aprendes You learn	Vas You go	Quieres You want		Preparas You prepare	Das You give	
F. Using 'quisiera' 6 Key Words for this ter		with furioso/a ganar	furious to earn, to win, to gain	Aprende He/she/it learns	Va s/he goes	Quiere He/she/ it wa	nts	Prepara He/she/it prepares	Da He/she/it gives	
1. porcentaje 2. por ciento	4. la empresa 5. el/la jefe/a	la habilidad horroroso/a imaginar	skill, ability dreadful to imagine	Aprendemos We learn	Vamos They go	Queremos We want		Preparamos We prepare	Damos We give	
3. la ama de casa 11.1G ¿Qué v	6. cuidar a	inútil mundo necesitar	useless world to need	Aprenden They learn	Van They go	Quieren They want	_	Preparan They prepare	Dan They give	
a tiempo completo full tim a tiempo parcial part tin	e	pedir to ask for peor worse, worst		11.1H ¿Vale la p	on one's owr			11.1H ¿Vale la pena ir a la universidad?		
el/la alumno/a pupil aprender to learn el aprendizaje apprer aprobar to pass la asignatura subjec avanzado/a advand el beneficio benefit buscar to look la carrera (universitaria), (ur carrera profesional conseguir to get, el consejo advice continuar to cont dejar to leav el dinero money encontrar to find esperar to wait los estudios studies el examen exam la experiencia experie la experiencia laboral work feo/a ugly	n htticeship s t ced t for niversity) course, career to manage, to achieve tinue re for, to hope, expect s ence experience	por otra parte la promoción relacionarse con with repasar el repaso seguro/a la sociedad todavía vale la pena worthwhile	on the other hand promotion to relate to, to get on to revise revision sure society still it's worth it, it's	a colas acabar de + infinit adecuado/a aislado/a al final de apetecer así que avanzado/a el beneficio bien pagado/a la calidad la carrera (univers career claro conseguir achieve el consejo deber devolver back disfrutar la edad	ive to have just adequate, de isolated at the end of to appeal to learn so advanced benefit well paid quality	y course, nage, to	ofrec olvida pedir poco preoo conc recoo la res est el res segu segu tan p el títu	er f arse f prestado f a poco f cupar f erned ger f sidencia de s udiantes sultado f ir + gerund f ronto como s ulo (university) o r un año libre f	world of work to offer to forget to borrow bit by bit to worry, to be to pick up, to collect student residence result to follow to carry oning as soon as degree to take a year out advantage	
la informática informa mejor better, mientras while la nota grade, la opción option la oportunidad opport quedar to stay el resultado result sacar buenas / malasto get grades notas	mark, result unity ,			escoger esperar expect estar a punto de la experiencia labo feo/a el folleto el/la graduado/a hacerse miembro inquietar lejos de mejor	to choose to wait for, to to be about to oral work experi- ugly leaflet graduate	o ience member				

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- 5	P	10
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# GCSE Unit 12 SPANISH Knowledge organiser. Topic Jobs, Career choices and Ambitions

What we are learning this term:				12.1F	Bu
<ul> <li>A. Talking about different jobs</li> <li>B. Looking for and applying for jobs</li> <li>C. Recognising percentages and fractions</li> <li>D. Learning useful phrases</li> <li>E. Using a variety of tenses</li> </ul>				a principios de el/la administrativ ambicioso/a anciano/a animado/a arreglar	a vo/a a e l t
6 Key Words for this term				el aspecto atender a	t
1.buscar4. empezar2.una entrevista5. ganar3.anuncios6. desafiante				la caja el camping el carnicero/a el carpintero/a	t c t c
-		la carta	l		

### 12.1G Los trabajos

el ama de casa (fem.) housewife					
el banco	bank				
el/la cajero/a	cashier				
el/la cliente/a	customer				
el cocinero/a	cook				
estar en paro	to be unemployed				
el ingeniero/a	engineer				
el jardinero/a	gardener				
limpiar	to clean				
la mitad	half				
la oficina	office				
la peluquería	hairdresser's				
el peluquero/a	hairdresser				
el/la policía	police officer				
por ciento	per cent				
el/la porcentaje	percentage				
quisiera	I would like				
resolver	to solve, resolve				
salvar	to save				
temporal	temporary				
el/la veterinario/a	vet				
la vida	life				

choices and Am	bitions
12.1F B	uscar trabajo
a principios de	at the beginning of
el/la administrativo/	a clerk, office worker
ambicioso/a	ambitious
anciano/a	elderly
animado/a	lively
arreglar	to sort, fix, arrange
el aspecto	appearance, aspect
atender a	to attend to
la caja	till, check-out
el camping	campsite
el carnicero/a	butcher
el carpintero/a	carpenter
la carta los conocimientos	letter
el correo electrónico	knowledge
cortés	polite, courteous
cuidar a	to care for, look after
el/la dependiente/a	shop assistant
el detalle	detail
dominar + language	
el/la electricista	electrician
el empleado/a	employee
la empresa	company, firm
en seguida	straightaway
la energía	energy
fiable	reliable
la gente	people
el/la hombre / muje	r de businessman /
business woman	
negocios	
el juego	game
el/la maestro/a	primary school teacher older
mayor organizado/a	organised
paciente	patient
la panadería	bakery
el panadero/a	baker
práctico/a	practical
el problema	problem
el/la recepcionista	receptionist
servir	to serve
sincero/a	honest
el sitio web	website
el sobre	envelope
sueldo	wage
trabajador/a	hard-working
el traductor/a	translator
el trimestre la variedad	term
ia valieudu	variety

	Key Verbs						
	<u>Tener</u> To have	<u>lr</u> To go	<u>Buscar</u> To look for		<u>Hacer –</u> to do/make	Encontrar To find	
g of orker	TengoVoyBuscoI haveI goI'm looking to		Busco I'm looking for		Encuentro I find		
	Tienes You have	Vas You go			Haces You do	Encuentras You find	
nge spect	Tiene He/she/it has	Va s/he goes	Busca He/she/it is lo	oking	Hace s/he does	Encuentra He/she/it finds	
	Tenemos We have	Vamos They go	Buscamos We're looking	) for	Hacemos We do	Encontramos We find	
	Tienen They have	Van They go	Buscan They're lool	king	Hacen They do	Encuentran They find	
	12.1H	El trabajo ideal			12.1H El tra	abajo ideal	
an / teacher	el/la abogado/a el/la albañil el/la amo/a de cas husband/housewil ascender el/la azafato/a el/la cajero/a el/la cajero/a el/la cajero/a la capacidad el/la cartero/a el/la cliente/a la compañía aérea compartir el/la contable la cuenta diseñar fijo/a físico/a la formación funcionar el/la grente el/la granjero/a las horas de traba working hours flexibles el/la jardinero/a el/la jefe/jefa limpiar la lluvia mejorar la peluquería el/la peluquero/a la perspectiva el proyecto el rincón	te to move up flight attendar cashier lorry driver ability, capac postal worker customer a airline to share accountant account to design fixed, permar physical training to function manager farmer jo flexitime, flex	nt ity nent	temp utiliza el vie ya qu	ar to ento w	emporary o use ind s, since	

1. Gross Profit	Margin	2. Procur	ement – Working with Suppliers		
	Explanation	There are five main factors at the heart of a relationship between a company and its			
Gross profit	Gross profit is the difference between a product's	suppliers:			
	selling price and what it costs the business to	Quality	Suppliers must supply high quality products to businesses, suppliers will		
	manufacture/purchase.		struggle to maintain a good relationship with a company if they are not		
Gross profit margin			supplying good durable products. First and fore most suppliers must supply		
Gross profit margin	revenue for a product. 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		
culculation			right price and with the right product, if the product doesn't arrive on time.		
			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.		
e L	exactly what they want.		Therefore, the price charged by a supplier will be a key factor in the		
	Disadvantages: High production costs. Skills may be in short supply, making it hard for the business		relationship between a firm and its suppliers. Price to highly and firms may		
			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		
FIOUUCION	offer customers the colour/size they want		to trust that a firm will make a profit and be able to pay them back in cash.		
	· · · · ·		ategy – 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	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		
	customer needs.		about the business and strive to improve it.		

## 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.

# Y11 Computer Science Term 3

Law	Content		Details	
Computer Misuse Act of 1990.	Computer Misuse Act of 1990. Offence		Last updated in 2018.	
	Unauthorised access to computer material	Up to six months in prison and/or an up to a £5,000 fine	Intent has an impact on the penalty received.	
	Unauthorised access to computer materials with intent to commit a further crime	Up to a five-year prison sentence and/or an unlimited fine		
	Unauthorised modification of data	Up to a five-year prison sentence and/or an unlimited fine		
	Making, supplying or obtaining anything which can be used in computer misuse offences	Up to a ten-year prison sentence and/or an unlimited fine		
Data Protection Act 1998.	Controls how your personal information is used by government. Under the Data Protection Act 2018, information the government and other organisation the right to: be informed about how your data is be data, have incorrect data updated, have data erase of your data, data portability (allowing you to get a services), object to how your data is processed in o	Last updated in 2018.		
GDPR General Data Protection Regulation.		Storage of Don't keep it longer than you need it.	Applies to all EU citizens and companies wishing to sell products to or have data on EU citizens.	
		ity and lentiality	Has become the international standard	
	Limiting Kept Data	ntability Keep a paper trail to demonstrate		
	Data Must be Accurate Hat data up-to-date.	compliance,		
Investigatory Powers Bill 2016	Requires companies and internet service providers browsing histories. It also gives the authority for p access computers and phones to search for data.		Requires a warrant for police to search through or utilise the data.	
Copyright, Designs and Patents Act	As soon as something is created, it becomes intelle copyright. In the case of software, the copyright he it (proprietary) or give that right away (open-source	older can choose to sell and license	Does not apply to algorithms (flowcharts/ pseudocode) but real code.	

	Y11 Computer Science Term 3					
Term	Definition					
E-Waste	Electronic Waste consisting of digital products.					
Planned Obsolescence	Producing goods which are designed to become rapidly obsolete and require replacement. This can be achieved by frequent changes in design, termination of the supply of spare parts and the use of non-durable materials.					
Ethical Concerns	Cover two categories, ensuring public safety and the security of data.					
Database Terms	Meaning					
Big Data	Extremely large sets of data. Often gathered from many different sources for analysis. Used to make predictions based on the patterns identified in the data.					
Data Mining	Analysing large amounts of data to predict future events and trends. With so much data available, people and companies who are able to analyse and understand it all are in high demand.					
Open Data	Large sets of data which are shared freely. Often comes from organisations like the government, allowing anyone to look at and analyse their data					
Data Security	Companies and organisations storing a user's personal data are legally obliged to ensure it is secure. To achieve this, encryption is commonly used in databases.					
Flat-File Database	A flat-file database is a database that only has one table. Often saved as a CSV file (Comma Separated Values). It is useful because it is highly compatible between databases and other applications.					
Relational Database	A database consisting of multiple tables, each of which holds data about one entity type, which are linked together through relationships.					
Attributes / Fields	The characteristics of an entity, used as column headings in a table. Often different data types.					
Record	A row in the table which contains the full collection of data for one entity.					
Entity	An object, e.g. a person or item. They are the subject whose attributes are stored as records.					
Primary Key	Unique identifier for each record. Normally just a unique number or mix of number and letters which means a record cannot be duplicated.					
Foreign Key	An attribute/field used in a table which is the primary key from another table.					
Normalisation	The process of analysing a database to find how redundancy can be reduced, making the database more efficient by breaking down the data into separate tables and using relationships to link them.					

SELECT – Defines which fields we are looking for.
 FROM – Defines which table we are looking in.
 WHERE – Defines the <u>parameters</u> we're looking for.
 ORDER BY – Defines how we're sorting our results.

CREATE TABLE tblExample( FieldName DATATYPE, FieldName2 DATATYPE, PRIMARY KEY (FieldName));

#### Example:

SELECT GameName, DeveloperID FROM GameTable WHERE DeveloperID = "Bethesda" ORDER BY GameName DESC;

4	Year 11 PRODUCT DESIGN Term 3													
Α.	Physical &	Working Properties	What we are learn	What we are learning this term:						-@-				
	properties a re it is used		,	orking Properties B. Force oards E. 6 R's F. Natura			ypes of Motion mbers	reduce		's when designing to help nat new products have on				
Absorbe	ency	Ability to soak up moisture, light or heat	B. Forces and		C.	Types of		Repair		tter to fix things instead of ng them away.				
Density	<b>***</b>	How solid a material is	Forces apply stres them to break or cl	s to objects, causing hange shape.	Linea	$\rightarrow$	Moves something in a straight line. E.g. a train moving down a	Reuse	You c	an extend a products life by				
Fusibilit	y for	Ability of a material to be heated and joined to	Different materials forces.	can withstand different	Recipr	ocating	track Has a repeated up	Recycl	e The u	ng it on or using it again. ses less energy than				
	-	another material when cooled	Tension	Is a stretching or pulling force.		<del>、</del>	and down motion or back-and-forth motion. E.g a piston	Rethin	42	hould think about your				
Electric: Conduc	157	Ability to conduct electricity	↓ ↓ ↓	E.g. the ropes of a suspension bridge		-	or pump		desigi	n carefully. Is it needed?				
Thermal	tivity 🔥	Ability to conduct heat	Compression	Is a pushing or squashing force,	Rotary		Is where something moves around an axis or pivot point.			g long-lasting durable cts. Think rechargeable!				
Working	properties a	are how a material nanipulated.	+)((+	e.g. the weight of a building on its foundation	C C C C C C C C C C C C C C C C C C C	Oscillating	Oscillating	E.g a wheel cillating Has a curved		RefuseYou can refuse to buy a productionyou think it is wasteful. Such as plastic bags.		ink it is wasteful. Such as		
Strength	n A	Ability of a material to withstand compression,	Bending	Is a combination of tension and	forwards mo that wings of		T I	backwards and forwards movement	F.	Natural &	Manufactured Timbers			
		tension and shear	(S)	compression. It exerts tension on			that wings on an axis or pivot point. E.g a		or pivot point. E.g a		or pivot point. E.g a		timber come	es from trees.
Hardnes	ss 💮	The ability to withstand impact with damage	J D	one side and compression on the				Hardwood		Softwood				
Toughn	ess	Materials that are hard		other, e.g. bending anything	D.	D. Paper & Card/Boards		Ash		Larch Pine				
j	X	to break or snap are tough & can absorb			Paper and cards/boards both come from			Beech Mahogany		Spruce				
	7.5	shock	Shear	Is a cutting force. The opposing forces	wood pulp.			Oak		Softwoods are faster				
Malleab		Being able to bend or		are not directly opposite each other,	Paper		Board	Balsa		growing and cheaper to buy.				
	(£)	shape easily would make a material easily		e.g. cutting paper with scissors.		lge Paper	Corrugated Card	Manufactured Boards		,				
		malleable	Tanaian		Grid P		Duplex Board			Is are usually made from				
Ductility		Materials that can be stretched are ductile	Torsion	Is a twisting force that attempts to rotate two		t Paper	Foil-Lined Board	natural timber waste and adhesive.						
Elasticit	y <u></u>	Ability to be stretched		ends of a material in opposite directions,		g Paper ated Card	Foam Core Board	Medium-density fibreboard (MDF)		eboard (MDF)				
	MMM	and then return to its original shape		e.g. wringing out a wet cloth.			Solid White Board	Plywood Chipboard						

1			Year 11 PRODUC	T DESI	GN Term	3			- SK
A. Physical	& Working Properties	What we are learn	ing this term:				E.	6 R's	-`@`-
Physical properties	are		orking Properties B. Force oards E. 6 R's F. Natura		-		reduce		s when designing to help at new products have on
Absorbency		B. Forces and	Stressors	C.	Types of	Motions	Repair		
	How solid a material is	Forces apply them to	to objects, causing or	Linea -				You c	an extend a products life by
Fusibility		Different materials forces.	can withstand different	-	$\rightarrow$		Recycl		ng it on or using it again.
600		Tension			$\leftarrow$	Has a repeated up and down motion or back-and-forth	-	<u>0</u>	
4	Ability to conduct electricity	$\downarrow \square \downarrow$			$\rightarrow$	motion. E.g		esigr	hould think about your a carefully. Is it needed?
Thermal Conductivity	Ability to conduct heat		ls a pushing or squashing force,	Rotar	์ <i>ต</i> ่วไ		Reduc	פ עק ער	
• • • •	are	<b>+)(</b> +	e.g		t,j	Has a curved			n refuse to buy a product if hk it is wasteful. Such as bags.
Strength A		Bending			т	backwards and forwards movement	F.	Natural &	Manufactured Timbers
				К₫Я		that wings on an axis or pivot point. E.g	Natural timber comes		s from
	The ability to withstand impact with damage	J J					Hardwood Ash		Softwood
Toughness				D.	Paper & Ca	rd/Boards	7.311		Pine
张			Is a cutting force.	Paper and cards/boards both come from			Mahogany		
	Being able to bend or	$\rightarrow$	The opposing forces are not directly	Paper		Board	Dalaa		Softwoods are
Æ	shape easily would make a material easily		opposite each other, e.g.	Cartri	lge Paper		Balsa	actured Boa	
	malleable					Duplex Board			s are usually made from
Ductility		Torsion		Layou	t Paper				
Elasticity	Ability to be stretched			0	voted Card	Foam Core Board			
MMM	and then return to its original shape			Corru	orrugated Card Solid White Board		Plywood		

# Food spoilage, contamination and food poisoning

Food spoilage As soon as food is harvested, slaughtered or processed it starts to change. This happens for two main reasons: •autolysis - self destruction, caused by enzymes present in the food; •microbial spoilage - caused by the growth of micro-organisms, i.e. bacteria, yeasts and moulds.	Physical contamination This can occur in a variety of ways at different stages of food processing and production. Some examples are: •soil from the ground when harvesting; •a loose bolt from a processing plant when packaging; •a hair from a chef in the kitchen.	Food Bacteria need a source of food to grow and multiply, these food are usually high in moisture, fat and protein, and may be ready to eat. Food where bacteria rapidly multiple in is called a high risk food. For example: •meat, meat products and poultry; •milk and dairy products; •eggs – uncooked and lightly cooked;	E Coli 0157 Sources Raw and undercooked meat and poultry. Unwashed vegetables. Contaminated water. Signs and symptoms Onset usually 3-4 days. Diarrhoea, which may contain blood, can lead to kidney failure or death.	Key terms Bacteria: Small living organisms that can reproduce to form colonies. Some bacteria can be harmful (pathogenic) and others are necessary for food production, e.g. to make cheese and yogurt. Binary fission: The process that bacteria uses to divide and multiply. Cross-contamination: The transfer of bacteria from one source to apather. Usually raw food to		
Food spoilage: Autolysis – enzymes Enzymes are chemicals which can cause food to deteriorate in three main ways: •ripening – this will continue until the food	Bacterial contamination Most bacteria are harmless but a small number can cause illness. These are known as pathogenic bacteria. Food which is contaminated with pathogenic bacteria	<ul> <li>shellfish and seafood;</li> <li>prepared salads and vegetables;</li> <li>cooked rice and pasta.</li> </ul>	Listeria Sources	<ul> <li>from one source to another. Usually raw food to ready to eat food but can also be the transfer of bacteria from unclean hands, equipment, cloths or pests. Can also relate to allergens.</li> <li>Food spoilage: The action of enzymes or microorganisms which make the food unacceptable to consume.</li> <li>Food poisoning: Illness resulting from eating food which contains food poisoning microorganisms.</li> <li>Toxin: A poison produced by some bacteria</li> </ul>		
<ul> <li>hpering - this will continue that the food becomes inedible, e.g. banana ripening;</li> <li>browning - enzymes can react with air causing certain foods, e.g. apples, to discolour;</li> <li>oxidation - loss of nutrients, such as vitamin C from food, e.g. over boiling of green vegetables.</li> </ul>	can look, taste and smell normal. Bacteria can be transferred onto food through cross-contamination, via equipment, people or pests, or can be naturally present in the food. Some bacteria can produce toxins which can cause food poisoning.	<b>Time</b> Given the right conditions, one bacterium can divide into two every 10- 20 minutes through a process called binary fission.	Unpasteurised milk and dairy products, cook-chill foods, pate, meat, poultry and salad vegetables. Signs and symptoms Onset 1-70 days. Ranges from mild, flu-like illness to meningitis,			
Food spoilage: Microbial spoilage Spoilage can be caused by the growth of:	poilage: Microbial spoilage Micro-organisms		septicaemia, pneumonia. During pregnancy may lead to miscarriage or birth of an infected baby.	which can cause food poisoning.		
<ul> <li>bacteria - single celled micro- organisms which are present naturally in the environment;</li> <li>yeasts - single celled fungi;</li> <li>moulds - fungi which grow as filaments in food.</li> </ul>	survive and reproduce these can include: •temperature; •moisture; •food; •time; •oxygen and pH level.	about the food they eat.  Symptoms of food poisoning Food poisoning can be mild or severe. The most common symptoms are: •feeling sick;	Salmonella Sources Raw meat, poultry and eggs. Flies, people, sewage and contaminated water.	Allergens Allergenic ingredients can cause adverse reactions in some people. Care must be taken at each stage of food processing to prevent contamination.		
Food contamination Food contamination can lead to food	Temperature Bacteria need warm conditions to grown and multiply.	•being sick; •diarrhoea; •abdominal pain.	Signs and symptoms Onset 6-48 hours. Headache, general aching of limbs, abdominal pain and diarrhoea, vomiting and	Desirable food changes Desirable changes that can be caused by micro-organisms include:		
food can be contaminated: bacterial, chemical and physical.	•The ideal temperature for bacterial growth		fever. This usually lasts 1 – 7 days, and rarely is fatal.	<ul> <li>bacteria in yogurt and cheese production;</li> <li>mould in some cheeses, e.g. Stilton;</li> <li>yeast in bread production.</li> </ul>		
Chemical contamination Chemical contamination can occur in a variety of ways at different stages of food processing and production. For example, chemicals from the farm; cleaning products used in the processing plant and fly spray used in the kitchen.	<ul> <li>Most bacteria are destroyed at temperatures above 63 °C.</li> <li>Bacterial growth danger zone is 5°C - 63°C.</li> <li>At very cold temperatures, bacteria become dormant - they do not die, but they cannot grow or multiply.</li> </ul>	unpasteurized milk, contaminated water. Signs and symptoms Onset 2 – 5 days (can be longer). Fever, headache and dizziness for a few hours, followed by abdominal pain.	Staphylococcus aureus         Sources         Humans: nose, mouth and skin.         Untreated milk.         Signs and symptoms         Onset 1 – 6 hours. Severe         vomiting, abdominal pain,         weakness and lower than normal			

temperature.

This usually lasts 6 - 24 hours.

#### Moisture

Where there is no moisture bacteria cannot grow. However, bacteria and moulds can both produce spores which can survive until water is added to the food.

# Food spoilage, contamination and food poisoning

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

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						
<ul><li>A. Key words</li><li>B. Definitions of hea</li><li>C. Genetic inheritar</li></ul>	alth and wellbeing Ice	Positive Def	finition	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		Negative de	finition	Looks at the absence of physical illness, disease, and mental distress. You have a negative attitude towards your health and wellbeing if you: <ul> <li>Base your attitude on not having anything wrong with you.</li> </ul>				
Genetic inheritance	The genes a person inherits from their parents		V	<ul><li>Continues as you are- Inc. keeping bad habits like smoking.</li><li>Assume that because you currently feel fine you will stay healthy in the future.</li></ul>				
Predisposition	Someone is more likely to suffer from a particular condition	Holistic defi	nition	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. Is 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		Intellectual	<ul> <li>Physical Health: Be meeting the needs we have to keep our bodies working as well as they can, e.g. Foo water, shelter, warmth, clothing, rest, exercise and good personal hygiene.</li> </ul>				
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;     these includes a meeting the includes a meeting the last of the second seco			
Monitor	To check progress over a period of time.		Spiritual	these include mental stimulation to keep us motivated and interested.     Emotional aspects of wellbeing:     Due meeting the needs we have that make us feel have and releved a given based.				
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,				
Circumstances	Events that change your life, over which you have no control			including mixing with facilities/ activities.	h others in ap	propriate environments and having access to leisure		
Physiological	Relates to how a person and their	C.	Genetic inheritance					
	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		inherit their physical; chara .g. height, skin and eye co r.		psomes 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 ch welling be	aracteristics can affect so ecause they influence a pe ge and esteem).		of a gen • Enviror	ne are called <b>alleles</b> (they can be faulty). mental factors such as diet, also influence physical		
Obstacles	Difficulties a person might face when they implement a plan.				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	Intellectual welling: learning, thinking, problem solving and decision making.		
Norm	Something that is usual, typical or standard	-	condition, e.g Huntingto Recessive:		-	<ul> <li>Emotional wellbeing: how people feel about themselves.</li> <li>Social wellbeing: the ability to build relationships and maintaining them.</li> </ul>		
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				

### 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
- What are the effect of exercise? F.

**Balanced diet** 

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G. What are the effect of excessive substance use?

It is also a lifestyle choice



				.9. –	סכ
E	Chromic	or Acute Illness			
<b>Chronic illness-</b> 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	
<ul> <li>Physical:</li> <li>poor rate of growth</li> <li>Unusual physiological change during puberty</li> <li>Restricted movement</li> </ul>				notional: Negative self-concept Stress Decision making	
<ul> <li>Intellectual:</li> <li>Disturbed learning because of missing school</li> <li>Difficulties in thinking and problem solving</li> <li>Memory problems.</li> </ul>			So • •	cial 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, boosting energy levels. Improved flexibility, stamina, endurance and stronger bones and muscles. Reduce risk of heart disease and diabetes. Intellectual: improved brain function like mentor and thinking skills.         Emotional: improves confidence and mood and reduces stress. Aid relaxation and sleep and lead to better self concept. Social: encourages social interaction, reducing isolation and improving social skills.					cles. elaxation
information.				ormance, hard to concentrate and retand retain retained reduced ability to cope with stress.	

Physical: Alcohol dependence, damage to major organs: liver, heart, kidneys,

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

pancreas. Cancers: mouth, throat, oesophagus, liver, breast. Infertility and

unsafe sex, can have an impact on relationships, depression. Social: breakdown of relationships, domestic violence, social isolation

What are the effect of excessive substance use?

impotence, weight gain.

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

Diet that contains the correct nutrients in the right

proportions to keep out bodies and minds healthy.

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

	Year 11 BTEC Health and Social Care- Component 3: Health and Wellbeing. LAA       57								
What we are lea	What we are learning in LAA:			J. What are the hazards of Smoking			rticles cause:		
I. What are the J. What are the K. What are the	e effects of s hazards of e effects of p	ractions on wellbeing tress on health and wellbein smoking ersonal hygiene al interactions on wellbeir	He	eart disease and poor circula increased blood pressure increased risk of heart attack narrowing of the arteries.	ion mean:	• bronchiti     • emphyse     • asthma     • smoker's	ema	<ul> <li>Nicotine causes:         <ul> <li>addiction</li> <li>increased blood clotting leading to thrombosis.</li> </ul> </li> <li>Conditions such as:         <ul> <li>stroke</li> </ul> </li> </ul>	
Social integration	interact v between school le groups.	ople feel they belong to a g vith others. Social interactio family members and friends arners, members of a comr	ns can happen s, work colleagues, nunity or interest	Carbon monoxide causes: decreased oxygenation poor growth extra work for the heart			azards of	• gum disease. Tar causes cancers of the nose, throat, tongue, lungs, stomach and bladder.	
Social isolation	others. T because unemploy communi or learnin	when people do not have reach his may be because they do of physical illness, reduced yment. They might have a co icating if they have a menta ng difficulties. Lastly, a perso ated against because of cu	i illness, depression on might be	• increased risk of thrombosis Exposure in childhood means children: • are prone to chest infections • tend to be smaller and weak • do less well at school.	and asthma	Exposure in p • smaller bab • more stillbin		Smokers': • breath and clothes smell of smoke • hands and nails are nicotine stained • faces often become wrinkled from the effects of smoking.	
Positive effects of relationships		Intellectual: shared experi Emotional: unconditional lifeeling content, ability to buindependence and confider		nd thinking ment, positive self-concep	Positi	• more miscarriages.			
Negative effects of isolation	<ul> <li>Social: Companionship, social circle increases.</li> <li>Social: Companionship, social circle increases.</li> <li>Physical: poor lifestyle choices like smoking and ceating disorders.</li> <li>Intellectual: reduced ability to use thinking skills, n Emotional: feelings insecure, depression, anxiety, hurt, loneliness and distrust, lack of independence, emotions.</li> </ul>			ng school/work ative self-concept, feeling o iculty in controlling			You must: • Brush you te • Shower daily • Wash your ha	or bath	
I. Wha	I.         What are the effects of stress on health and wellbeing					ive effects or personal ne	poisoning, sore t Bad body odour,	ng and spreading disease like food hroat, meningitis and athlete's foot. bad breath and tooth decay.	
Physical eff	effects Intellectual effects Emotional effects		Social effects			Might be bullied	of friendships and social isolation. and poor self-concept. al interactions as people don't want		
Increased heartbe		Forgetfulness Poor concentration	Difficulty in controlling emotions	Difficulty in making friends and building			Social: low social interactions as people don't want to be friends with someone that neglects their hygiene. Social isolation.		
Tense muscles Sweaty palms Dry mouth High blood pressu Loss of appetite Sleeplessness Digestive problem		Difficulty in making decisions	Feeling insecure Negative self-concept Feeling anxious and frightened Loss of confidence	relationships Breakdown of close relationships Social isolation	When	caring for	<ul> <li>Negative efference</li> <li>and their hear</li> <li>Discomfort for</li> </ul>	can stop effect communication. ect on the person being cared for alth and wellbeing- pass on infection or the person being cared for he odour or visible dirt under	

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

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ealth	and	wellbe

What we are	What we are learning in LAA:						
M. What are N. What are	<ul> <li>M. What are the effects of unexpected life events on health and wellbeing</li> <li>N. What are the effects of economic factors (e.g, income) on health and wellbeing</li> </ul>						
L.	W	hat are the barriers to seeking help.					
Culture		<ul> <li>Accessing HSC services can be influenced by values, traditions, way of life and beliefs of the society or group.</li> <li>Some may have received discrimination when accessing other services.</li> <li>Some may not speak English well enough.</li> <li>Values and traditions not understood e.g. eye contact means respect in some cultures but not others.</li> <li>Some cultures a woman must be treated only by a female professional.</li> <li>Alternative therapies are used in some cultures</li> </ul>					
Gender		<ul> <li>Not aware of poor health signs as health campaigns target women's health more</li> </ul>					
Education	<ul> <li>Research shows that people who are better educated are more likely to seek help. This is because:</li> <li>They like to research symptoms and know when help is needed</li> <li>Understand the importance of early diagnosis and treatment</li> <li>Know how and where to access services.</li> </ul>						
Stigma	de	some cultural groups there is a stigma a epression. Stigma is a word used to deso nbarrassed about. Therefore, they would	cribe something that people feel	Life			
M. Wha	t are	the effects of unexpected life events	on nearth and wellbeind	scł col			
Life event		Positive Effects:	Negative Effects:	uni			
Imprisonmen	t	<ul> <li>Depression</li> <li>Loss of contact with family and friends</li> <li>Social isolation</li> <li>Restrictions on physical activity</li> </ul>	balanced diet, lack of alcohol, reduced use of nicotine	Sta nev car Mo			
Redundancy		<ul><li>Poor self-concept</li><li>Anxiety about finances</li><li>Fewer opportunities</li></ul>	<ul> <li>Opportunities to study or train for a new job</li> <li>More time to spend with family and friends</li> </ul>	a n hoi are Rei			
Exclusion or dropping out of education <ul> <li>Loss of contact with friends</li> <li>Social isolation</li> <li>Poor self-concept</li> <li>Lack of learning opportunities</li> </ul> <ul> <li>Catalyst for change of behaviour</li> <li>Opportunities for more suita study or work situation</li> </ul>							

N.	Wha	t are the effects of economic factors (e.g, income) on health and wellbeing						
		Positive Effects:	Negative Effects:					
Physica	1	<ul> <li>Better financial resources can result in good housing conditions and healthy diet</li> <li>Manual jobs may improve muscle tone and stamina.</li> </ul>	<ul> <li>Low wages can affect diet ad housing, leading to poor health.</li> <li>Manual jobs can cause muscular and skeletal problems</li> <li>Desk jobs lead to less activity and weight gain.</li> </ul>					
Intellectual		<ul> <li>Better financial resources can result in more leisure time for intellectual activities</li> <li>Work, education or training helps to develop problem solving and thinking skills</li> </ul>	<ul> <li>Some people work very long hours to improve their financial position, leading to less leisure time and reduced learning opportunities.</li> <li>Being unemployed can result in poor mental health.</li> </ul>					
Emotional		<ul> <li>A well-paid job gives a feeling of security.</li> <li>Being financially secure promotes positive self- concept</li> </ul>	<ul> <li>Financial worried can result in stress and breakdown of relationships.</li> <li>Unemployment or low-status work can lead to low self-concept</li> </ul>					
Social		<ul> <li>Better financial resources provide opportunities for socialising.</li> <li>Work gives opportunities for socialising with colleagues.</li> </ul>	<ul> <li>Lack of financial resources reduces opportunities for socialising.</li> <li>Unemployment reduces opportunities for relationships, leading to social isolation.</li> </ul>					
0.	N	/hat are the effects of expected life e	events on health and wellbeing					
Life eve	ent	Positive Effects:	Negative Effects:					
Starting school, college uni		<ul> <li>Build new relationships</li> <li>Extend knowledge and learning</li> <li>Develop new skills</li> <li>Improve confidence</li> </ul>	<ul> <li>Anxiety about new routines and meeting new people</li> <li>Insecurity about leaving parents and other families</li> </ul>					
Start a new job career	oor	<ul><li>Develop independence</li><li>Improve thought processes</li><li>Improve self-concept</li></ul>	<ul><li>Stress about learning new skills and routines</li><li>Anxiety about meeting new people</li></ul>					
Moving to a new house or area		<ul> <li>Excitement</li> <li>Develop new friendships and relationships</li> </ul>	<ul> <li>Unhappiness at loss of old life</li> <li>Stress of moving</li> <li>Social isolation</li> </ul>					
Retirem	ient	<ul> <li>Reduced stress</li> <li>Time to socialise with family and friends</li> <li>Opportunities for leisure of physical activities</li> </ul>	<ul> <li>Loss of relationships with colleagues</li> <li>Possible loss of fitness and mobility</li> <li>Loss of intellectual stimulation and status</li> </ul>					

### What we are learning in LAB:

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

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

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

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

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

What we are learning in LAC:				Recommended action to meet health and wellbeing improvement goals		
<ul> <li>A. What is a person-centred approach</li> <li>B. Health improvement plan</li> <li>C. Recommended action to meet health and wellbeing improvement goals</li> <li>D. SMART targets for health improvement plan</li> <li>E. Sources of support</li> </ul>					<ul> <li>Reduce fat and sugar intake</li> <li>Do not exceed the recommended daily calories intake</li> <li>Get off the buss a stop early and walk the rest of the</li> </ul>	
Α.	What is a person-centred approach.		<ul> <li>Drink water alongside alcohol to reduce consumption</li> <li><u>To increase peak flow reading:</u></li> <li>Half the number of cigarettes smoked each day</li> <li>Use nicotine replacement therapies</li> <li>Join an exercise or dance class.</li> </ul>		<ul> <li>way</li> <li>Drink water instead of sugary drinks.</li> </ul> To reduce pulse rate and improve recovery time after exercise: <ul> <li>Walk for half and hour at lunchtime</li> <li>Drink decaffeinated drinks</li> <li>Take up a physically active hobby</li> <li>Join a yoga group.</li> </ul>	
Person- centred approach When	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. • The needs: physical, intellectual,					
planning for	emotional and social.					
health improveme nts include:	<ul> <li>The wishes: likes, dislikes, choices and desired health goals.</li> <li>Circumstances: illness or disability, access</li> </ul>	D.	SMART targets for health improvement plan			
into include.	to facilities, previous experiences, family and relationships, responsibilities.	<u>S</u> pecific		The target must be clearly stated. It should say exactly what you mean, such as to 'lose 2 kg in weight in a veek'. The target should be clear and not open to any misunderstanding.		
Benefits of person-	<ul> <li>Will feel involved</li> <li>Is more likely to trust a health</li> </ul>	<u>M</u> easurable	A target o target.	A target of to 'lose weight' is too vague. A specific amount must be stated so you can prove you have met you target.		
centred approach:	<ul> <li>professional who listen to them</li> <li>Will feel more secure</li> <li>Is more likely to follow the plan and achieve the targets</li> </ul>	<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'.			
B. He	Will take responsibility for their own health.  B. Health improvement plan		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 fitter, younger person.			
What is it?	What is it?         Health and welling improvement plans are often based on an individual's physiological		The target must have a deadline, so that you know when you need to achieve the target by, and progress ca be assessed.		nen you need to achieve the target by, and progress can	
	and lifestyle indicators. Plans should be person-centred and include goals, actions	E.	Sources of support			
The plan will identify:	<ul> <li>and targets and possible sources of support.</li> <li>The health issues and goal</li> <li>The recommended actions to take</li> <li>A set of targets for health improvement</li> </ul>	Informal support	support an	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.		
	<ul> <li>The supports that are needed</li> <li>Possible obstacles to progress and way to overcome them.</li> </ul>	Professions (formal) support	Formal support may be provided by statutory care services (the state), private care services and charitable organizations. Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and health specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life changes and emotions, get advice and information or change their lifestyle.			
Positive effects of a health improvem ent plan	<ul> <li>Be fitter</li> <li>Loose weight</li> <li>Have improved self-concept</li> <li>Lower blood pressure, healthier heart</li> <li>Reduced risk of cancer</li> <li>Taking control of their health outcomes and reaching health goals</li> </ul>	Voluntary support	Organization support ser paid by dorn neighbourh	ons offering voluntary support are charities, or rvices, many staff are volunteers ( they work hations. Community groups work at a local le nood 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

	Year 11 BTEC Health and Social Care- <u>Component 3</u> : Health and Wellbeing. LAA							
F.	What are the potential obstacle to implementing plans?	G.	What	at are the possible obstacles to accessing services?				
Emotional/ psychological- Lack of motivation	<ul> <li>A conflict between choices such as worrying that giving up smoking could result in weight gain</li> <li>Other priorities in a person's life- such as getting married or bereavement.</li> <li>Having negative attitude- believing change will be too difficult</li> <li>Lack of progress for example losing eight quickly in the first weeks but then slowing down.</li> </ul>	Type of obstacle		Possible obstacles	Suggestions to overcome obstacles			
	<ul> <li>Having a blip- thinking there is no point in continuing the plan after briefly returning to an old lifestyle.</li> </ul>	Geographical		<ul> <li>Service is difficult to get to because of poor bus or train</li> </ul>	<ul> <li>Arrange hospital transport</li> <li>Suggest telephone</li> </ul>			
Emotional/ psychological- Low Self-	<ul> <li>People with low self-concept don't value themselves,</li> <li>Feel powerless to change their lifestyle or that there's no point in starting because the task seems too big.</li> </ul>			services.	helplines or internet support groups.			
concept	<ul> <li>Some thin that because they were unsuccessful in other aspects of their life, they won't achieve their health goals.</li> <li>They may not feel they have support and approval from family and friends even if they really do.</li> </ul>	Financial		<ul> <li>Charges to use the services</li> <li>Time off from work would mean loss of pay</li> </ul>	<ul> <li>Check for entitlements, such as medicines and treatments</li> <li>Direct the person to advice on benefits and</li> </ul>			
Emotional/ psychological- Acceptance of	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.		ogical	Fear of being	employee rights.     Talk about concerns			
the current state	<ul> <li>Have no desire to change, for example, if they are happy with their weight or don't want to give up smoking.</li> </ul>			judged because there is stigma around a health	<ul> <li>Direct the person to a charity that supports</li> </ul>			
Time constraints	<ul> <li>People find that they do not have the time to achieve their health improvements targets because of:</li> <li>Care of young children, family members that are not well.</li> <li>Regular and additional work and study commitments</li> </ul>			problem (mental health, obesity)	people with a particular health problem.			
	<ul> <li>Domestic chores</li> <li>Medical appointments</li> </ul>	Physical		<ul> <li>Difficulty getting into the buildings where the service</li> </ul>	<ul> <li>Be aware of services that are adapted for easy access</li> </ul>			
Availability of resources	<ul> <li>Financial obstacles:</li> <li>Gym memberships, entry fee for a swimming pool</li> <li>Cost of attending exercise classes</li> <li>Cost of travel to the gym. pool or to attend health appointments</li> <li>Higher costs of some healthy foods.</li> <li>Lack of and the cost of exercise equipment</li> </ul>			<ul><li>is provided (no wheelchair access).</li><li>No where to park near the service</li></ul>	Ask a friend or family member to drop the person off at the service			
Unachievable targets	<ul> <li>Expectations too high</li> <li>Targets are not clear</li> <li>There are too many targets</li> <li>Timing is wrong/poor</li> <li>Targets are not suitable for the individual</li> <li>Fear of not being able to meet targets</li> <li>Not being in the right frame of mind to commit to the plan, e.g. due to depression.</li> </ul>	Personal needs		Communication difficulties because of pool language skills, sensory or learning disability.	<ul> <li>Provide support services that meet the person's needs, such as a BSL signer, interpreter, advocate</li> </ul>			
Lack of support	<ul> <li>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.</li> <li>Smoking- friends and family smoking and offering them cigarettes. Lacking will power to quit.</li> <li>Alcohol consumption- someone that is used to drinking with family and friends will find it difficult</li> </ul>			Concern that cultural needs are not understood	Use anti-discriminatory practice and encourage others to do so			
	to stop without their support. It would be hard to quit if the family and friends will hird it difficult their meals, friends centre a night out around heavy drinking at pubs and clubs.	Resourc	·s ·	Limits on services, such as support	Suggest sources of second-hand			
Ability, disability and addiction	<ul> <li>Understand what they need to do</li> <li>Learn how to make the required changes in their lives.</li> <li>Any places the person uses are wheelchair accessible</li> <li>Any exercise advised is wheelchair friendly.</li> <li>If stop smoking, then can put on weight- put people off.</li> <li>Like the way alcohol makes them feel but cant admit that they have a problem</li> </ul>			<ul> <li>aids and equipment</li> <li>Staff shortages, leading to long waits for appointments and support.</li> </ul>	<ul> <li>equipment</li> <li>Look for alternative strategies, for example an exercise DVD if there are no places at an exercise class.</li> </ul>			