Year 10 Option Subjects

Knowledge Organiser

January- April 2023

Ambition, Confidence, Creativity, RESPECT, DETERMINATION





Why do we have knowledge organisers?

area that will underpin your learning for the term Knowledge organisers are a collation of the basic essential knowledge for success in each subject

memory through recall exercises in Low Stakes Quizzing. They are designed to provide the information you will need to be committing to your long term

How do we use knowledge organisers?

retrieving information You should be using these KOs to create your homework quizzes so that you are practising

- and then swapping to recall the definition), practice labelling diagrams, retrieves reasons and You can do this by testing yourself on the definition of key terms (both recalling the key term justifications for the main learning points.
- 2 information about a topic as possible and then use the KP to fill in the gaps. They can also be used for 'memory dumps' where you try to recall as much of the
- ω. They can also be used in class to assist with retrieval of the core knowledge needed for each

You should have these with you at all times in school and out on your desk in all lessons

If you lose your KO or it becomes too dishevelled, please purchase a new one from the Head of Year or the School Office.

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Ambition, Confidence, Creativity, RESPECT, DETERMINATION





Viking Expansion Year 10 OCRb GCSE History: 1. Homelands

Life in the Viking homelands was determined by the geography of Scandinavia

The Homelands

Scandinavia DENMARK is a fertile land of gently rolling hills in the south of

inlets called fjords. Inland there are huge mountains. NORWAY has a long coastline stretching to the Arctic. Along the coast are

SWEDEN also stretches north to the Arctic. It is a land of thick forests

Viking Society

- Viking society was hierarchical and divided into three main groups
- Jarls were large landowners and warriors
- Bondi were small landowners who fought for the jarls
- Thralls were slaves who had been captured in war
- Viking society was patriarchal: women could not be bondis or jarls, instead running the household and managing the thralls when men were

Everyday Life

- during the winter Vikings lived in wooden longhouses which they shared with their animals
- Most Vikings earned a living by farming, fishing, or hunting
- Viking food came from a variety of sources:
- Farming: milk, eggs, pork, rye bread
- Fishing: herring and shellfish
- Hunting: elk and deer
- Food was preserved by salting or smoking

/OCABULARY

Salting	To sacrifice	Polytheistic	Patriarchal	Fertile
Coating food in salt to preserve it	To kill something as an offering to the gods	Having lots of different gods	Dominated by men	Able to grow crops

2 Viking ships, seafaring, and trade

Seafaring was an essential part of living in the Viking homelands

Viking Ships

- Viking ships were made of wood and powered by both sails and oars
- Warships skeids were long and narrow, allowing them to travel quickly, reaching Britain in just 2 days
- Cargo ships knarrs were wider and sturdien

Trade

- Ships allowed the Vikings to trade with places such as England, Scotland, and northern Germany
- In the 8th Century, trading towns such as Hedeby (Denmark) and Kaupang (Norway) began to develop
- Each town was protected by a jarl and traded in jewellery, cloth, and iron

3 Viking beliefs and rituals

Religion was central to Viking life but it is difficult to know precisely what they believed

was split into levels The Vikings believed that the centre of the universe was a sacred tree called Yggdrasil, which

Hel --- the underworld Midgard --- the world of the humans Asgard --- the home of the gods

Viking religion was polytheistic. The most important gods were: THOR

- The ruler of Asgard God of warriors
- Warriors who died his hall, Valhalla feasted forever in
 - Odin's son and protector of Asgard
 - Carried a hammer God of sailors
- The goddess of

FREYA

Her twin brother of farming Freyr was the god love and fertility

The Vikings sacrificed horses as offerings to their gods and held huge feasts in their honour.

Viking Expansion Year 10 OCRb GCSE History: 2. The Volga Vikings

4 Trade and settlement in Russia

From the 8th Century, Vikings began to explore, trade with, and settle in the river systems of western Russia

c. 750 Vikings from Sweden travelled up the Neva and Volkhov rivers and settled in Staraya Ladoga

By hauling boats and trade goods over land the Vikings were able to reach two important rivers

c. 800 The River Volga allowed the Vikings to travel South to the Caspian Sea and reach Baghdad and the Abbasid Empire The River Dnieper allowed the Vikings to travel south to the Black Sea and reach Constantinople and the Byzantine Empire

These Volga Vikings exchanged swords, furs, walrus ivory, and slaves for silver and gold

c. 850

Volga Vikings - known by local Slavs as Rus - began to settle along the banks of rivers

They built the large towns of Novgorod and Kiev The Rus formed an elite who ruled over the Slavs

The Rus eventually assimilated, speaking Slavic and marrying Slav women

5 Trade and interaction with the Arab World

By the 10th Century, Vikings interacted regularly with the Arab world

Baghdad was the capital of the Abbasid Empire and home to over a million people

Volga Vikings travelled down the Volga, crossed the Caspian Sea, and trekked by camel to Baghdad

In the city's bazaars, Vikings exchanged their goods for:

Silk, transported from China

Arabic silver coins, called dirhams

Interactions were not always peaceful: 500 Viking ships raided Baku in 913

VOCABULARY

Abbasid Empire	Large and powerful Muslim empire
Assimilated	Became similar to
Bazaars	Markets
3yzantine Empire	Large and powerful Christian empire
Elite	High status

Byzan:

Mercenaries Foreign soldiers hired for money /

Volga Vikings Merchants Slavs Rus The Vikings who settled in eastern Europe The people of Eastern Europe Europe People who travel to trade goods The name given to the Vikings in eastern

6 Constantinople and the Byzantine Empire

At different times the Vikings were traders, raiders, and mercenaries in the Byzantine Empire

Viking merchants traded for wine, olive oil, fruit, and spices in the bazaars of Constantinople

- Viking raiders attacked Constantinople in 860, 907, and 940
- Although they were unsuccessful, they forced the Byzantine emperor to sign trade treaties

Mercenaries

The emperor formed an elite bodyguard of Vikings called the Varangian Guard

Viking Expansion Year 10 OCRb GCSE History: 3. Raiders and Invaders

7 Raids in Britain, Ireland, Scotland, and France

From the 790s, the Vikings began to raid wealthy areas of western Europe

Historians have divided the Viking raids on western Europe into four phases:

PHASE 1 Vikings raided Lindisfarne in 793

793-830 Hit-and-run attacks on other coastal monasteries with 2/3

PHASE 2 Larger raids with 30-100 ships

830-850 Raiders travelled up rivers to attack inland trading towns

PHASE 3 The Vikings began over-wintering in defendable areas 850-865

PHASE 4 Large Viking army lands in England

Historians disagree about the causes of the Viking raids 865- Vikings become invaders not raiders

- Shortage of fertile land in the Homelands
- Wealthy European monasteries
- An opportunity for Jarls to gain glory
- Divided and weak western Europe
- Improvements in ship technology

The nature of the Viking raids was different in different parts of western Europe:

Raids on monasteries in the 790s (Lindisfarne,

Vikings overwintered in Attacks on market towns monks and holy books silver and ransomed Raiders looted gold and Jarrow, Iona)

Viking

Kent in 850-1

islands from seized the raiders

Scottish Islands Ireland

The Orkney

- grazing land offered good and Shetland raiding fleets From 830, larger over-wintered arrived and Vikings raided
- Dublin as a base In 841, Vikings

Frankish Empire

- From the 840s, the measures included The Franks' defensive Rouen and Paris River Seine to attack Vikings sailed up the
- stopped in the 860s As a result, raids

8 Viking warfare

Viking raiders were feared warriors and sailors

of weapons: Viking warriors used a range In battle, Viking warriors formed a shield wall

Double-edged swords

Wooden shields

Battle axes

Viking berserkers whipped before combat themselves into a frenzy

eagle' ritual performing the 'blood who resisted, often Raiders murdered monks

> By 800, the Vikings had raiding. They had: developed ideal ships for

- Oars for rowing into the A sail for rapid ocean wind and up rivers travel
- A shallow draught for landing on beaches
- ✓ Capacity for over 100 warriors on the largest

9 The 'Great Heathen Army' and the Danelaw

In 865, a Viking army invaded England, eventually gaining control of the Danelaw

The Viking 'Great Heathen Army' rampaged across England for 14 years

- Vikings demanded Danegeld from the Anglo-Saxons
- Alfred and Guthrum, the Viking leader, agreed the Treaty of Wedmore: In 878, the Vikings were defeated by King Alfred of Wessex at the Battle of Edington. By 878 the army had conquered East Anglia, Mercia, and Northumberland
- Vikings can settle the Danelaw (northeast England)
- Guthrum must be baptised as a Christian

VOCABULARY

To over-winter Monasteries Blood Eagle Fortified Beserker Draught

A particularly ferocious Viking warrior The depth of a ship's hull A gruesome Viking execution method Large, wealthy Christian religious centres

Ransom To demand money to return something / someone To stay in one place over the winter, rather than returning home

Viking Expansion Year 10 OCRb GCSE History: 4. Settlers 10 Settlement in western Europe

The nature of Viking settlement in western Europe varied from place to place

914	911	865	800
Ireland	Normandy	England	Scotland and the islands
 Viking settlement was limited to coastal towns, such as Dublin Dublin was a large trading base with wooden thatched houses By the 11th Century, Vikings had assimilated into Irish society, for example converting to Christianity 	 In 911, the French king offered a Viking, Rollo, control of Normandy in return for Christian conversion and protection against raiders Viking settlement was limited to coastal areas / rivers The settlers assimilated into French society and became Normans 	 The Danelaw was ruled by jarls based in fortified trading towns called burhs, such as Jorvik Large numbers of Viking place names (-by, -thorpe) and words (egg, sky, slaughter) suggest significant settlement 	 Vikings established rural settlements in the Shetland/Orkney Islands, north of Scotland, and Isle of Man, based in Pict villages Place names ending in -ness and -wick suggest Vikings dominated these areas

Archaeological evidence from Jorvik can tell us a lot about Viking settlement

10,000 people lived there The Vikings captured Jorvik from the Anglo-Saxons in 866. By the 11th Century,

- Homes in Jorvik were small, wooden structures with a latrine outside in the
- It's location on the River Ouse made Jorvik a trading centre for metals, silk, and ivory
- Vikings minted coins using Anglo-Saxons designs
- Burials in churchyards suggest Christianity, although coins often portrayed Thor and Odin
- Vikings lived alongside Anglo-Saxons in Jorvik and intermarriage was common

12 Iceland, Greenland, and North America

From the 9th Century, the Vikings established settlements across the North Atlantic

=	ICELAND (870-)	0	GREENLAND (983-)	Z	NORTH AMERICA (1000-)
•	Settlers in Iceland found	•	Greenland was	•	Erik's son, Leif Eriksson,
	little fertile land or wood		discovered by Erik the		attempted to settle in
	for houses		Red		North America
	Food came from fishing,	•	Greenland imported	•	He called the region
	hunting, and livestock		wood, metal, and grain		Vinland and traded with
•	Iceland was ruled by the		from Iceland and Europe		Native Americans
	Althing, an assembly of	•	In return, Greenlanders	•	This and later
	chieftains which met		exported walrus ivory		settlements failed
	once a year		and polar bear furs		however
≲	VOCABULARY				

Livestock	Latrine	Intermarriage	Assimilated	Assembly
Farm animals kept for meat and dain	A basic toilet	Marriage between different groups	Became similar to	A meeting to make decisions

Picts

People who lived in Scotland and the islands before the Vikings

Viking Expansion Year 10 OCRb GCSE History: 5. Viking Kings

13 Harald Bluetooth

Harald Bluetooth was a great warrior king who converted Denmark to Christianity

Christianity

- In 965, Harald was baptised as a Christian
- He forced the Danes to become Christian, although many still worshipped the old Viking Gods
- The grave site at **Jelling** contains evidence of Christian practices, including a wooden church and a the grave of Harald's father, **Gorm the Old**

Expanding his Kingdom

- Harald captured the region of Vik in Norway
- He moved the Danish capital to Roskilde to be nearer Norway
- He built bridges and roads to connect his Empire together
- He minted coins to improve trade

Defence

- To defend his kingdom, Harald built four large wooden forts
- He strengthened the **Danevirke**, a wall to defend against attack from German tribes
- Nevertheless, he was killed by his own son,
 Swein, who had risen in rebellion in 986

14 Svein Forkbeard

Svein Forkbeard consolidated his father's kingdom and raided and invaded England

Consolidating power

- Like his father, Svein was a Christian king but he tolerated paganism
- He minted coins and protected merchants to improve trade
- In 1000, Svein defeated the King of Norway in battle and added a large part of Norway to his kingdom

Raiding England

- In 1002, King Athelred ordered the execution of all Vikings living in England in the St Brices Day Massacre
- In retaliation, from 1003 to 1013 Svein raided England constantly, burning towns like Norwich and Exeter
- The English gave thousands of pounds of jewellery and coins in **Danegeld** to stop Swein's attacks

Invading England

- In 1013 Svein invaded England with a huge fleet
- Aethelred fled to Normandy and Svein was crowned king
- was welcomed back as king by the English earls

15 Cnut the Great

Cnut became King of England and built a large Anglo-Scandinavian Empire

Seizing the English crown

- In 1015, Cnut sailed for England with 160 ships and 10,000 men
- In 1016 he fought a series of battles against Ethelred's son, Edmund Ironside
- After **Ironside's** death, **Cnut** became king of England

Ruling England

- Cnut defended England against further Viking attacks
- He executed English leaders and replaced them with Viking **jarls**, but there was no large scale settlement
- He increased taxes to pay for defence and worked hard to develop the Church

Anglo-Scandinavian Empire

- In 1017, Cnut married Emma of Normandy, creating an alliance with Normandy
- In 1018, Cnut became King of Denmark following the death of his brother, Harald
- In 1028, Cnut invaded Norway with a fleet of 50 ships and was named king

VOCABULARY

To be baptised To officially become a Christian Consolidated Made more secure

Danes People from Denmark **Jelling** A Viking grave site in Denmark

Minted coins Produced coins

Tolerated Put up with

e margins – an te subducts under tal plate. Friction anic plate to melt re forces magma up mposite volcanoes sst coast of South is released e.g. San Andreas fault.	Volcanoes Constructive margins – Plate move apart and hot magma rises between the plates e.g. lceland. Forms Shield volcanoes. Earthquakes Constructive margins – usually small earthquakes as plates pull apart. Destructive margins – .	Plates either move towards each other (destructive margin) away from each other (constructive) or past each other (conservative).	 Deforestation Wealth - LICs are particularly at risk as they do not have the money to protect themselves KPI 2 Plate tectonics The crust is split into major sections called tectonic plates. There are 2 types of crust: Oceanic (thin and younger but dense) and Continental (old and thicker but less dense). These plates move due to convection currents in the mantle and, where they meet, tectonic activity (volcanoes and 	forest fires. What affects hazard risk? Population growth Global climate change	KPI1 - What are Natural Hazards? Natural hazards are physical events such as earthquakes and volcanoes that have the potential to do damage to humans and property. Hazards include tectonic hazards, tropical storms and
Reinforced Avoid buildings and making building foundations that absorb movement. Automatic shut offs for gas and electricity.	hazards Monitoring Seismometers measure earth mor movement. Volcanoes give off gases.	KPI6 - Distribution of tectonic activity Along plate boundaries. On the edge of continents Around the edge of the Pacific. KPI6 - Reducing the impact of tectonic	- Property and buildings destroyed People injured or killed Ports, roads, railways damaged Pipes (water and gas) and electricity cables broken.	Primary effects happen in happen as a result of the poff	Year 10 Geog The Challenge of Nat KPI4 - Effects of Tectonic Hazards
Planning High pressure = dry Low pressure = wet Avoid building in at risk areas. Training for emergency services and planned evacuation routes and drills. High pressure = wet cow pressure = wet cow pressure. As it rises – causing low pressure. As it cools, it sinks, causing high pressure. Winds move from high pressure to low pressure. They curve because of the Coriolis effect (the turning of the Earth)	circulation circulation At the equa are most co means it is I fact causes re atmospheri different lat	nic activity the edge of continents. cific. of tectonic	- Business reduced as money spent repairing property Blocked transport hinders emergency services Broken gas pipes cause fire Broken water pipes lead to a lack of fresh water.	Primary effects happen immediately. Secondary effects happen as a result of the primary effects and are therefore often later. Primary - Earthquakes Secondary - Earthquakes	Year 10 Geography The Challenge of Natural Hazards ects of Tectonic Hazards
Rising of Rising	al atmospheric Surface Wind Bands Low pressure Rising oir Low pressure Low pressure	Rebuilding. World Heritage Sites reopen June 2015. Longer climbing season.	Avalanche on Mount Everest killing 19 p Loss of income from tourism (which was Nepal's GDP). Red Cross- tents for 225,000 people. UN and WHO distributed medical suppli worst districts. Facebook launched a safety feature so p could indicate they were safe.	9000 deaths 20,000 injured	KPI7 - Comparing Earthquakes – Nepal and New Zealand Nepal. April 2015. Magnitude 7.8. Primary Effect
Southeast trade winds Southeast trade winds Horse 30°S Low pressure Rising air Polar easteriles Polar easteriles High pressure Polar becenning air Descenning air Descenning air Courtint C. Brown Publishers, Deboom, for World's Gorens, 4/e.	gh pressure scending air N	Long term responses Roads and houses cleared of silt by August Canterbury Earthquake Recovery Authority was created to organise the rebuild.	eople. Christchurch no longer able to host world cup rugby matches – loss of revenue Bottled water distributed Immediate Responses Rescue crews came from Japan, UK, Australia Chemical toilets given out to 30,000 residents eople	185 deaths Significant liquefaction 10,000 buildings demolished Secondary Effects	New Zealand New Zealand Feb 2011 Magnitude 6.3 Primary Effects

food		 Snow ploughs and gritters sent out to improve the roads Red weather warnings issued advising people not to leave their houses 	MANAGEMENT & RESPONSES:	ail ports like neathrow	- British Airways cancelled a huge number of short-haul flights from	_	Thousands of schools and shops were forced to close for several days		/inds of 60-	rural areas experienced lows of -12 degrees Celsius.	FFFFCTS:			es in the jet led to cold air from the east (continent) prevailing. The	CAUSE:	KPI12 - Beast from the East			increased 1 degree and winter rainfall has increased.	Temperatures are more extreme and rain is more frequent and intense	UK weather is getting more extreme due to climate change.	KPI11 - Extreme weather in the UK	power.		Heat is given off as it cools powering the storm.		4. Air spins due to Coriolis effect around a calm eye of the storm	 Strong winds form as rising air draws in more air and moisture causing torrential rain. 	 Air is heated above warm tropical oceans. Air rises under low pressure conditions. 	The state of the s	KPI10 - Sequence of a Tropical Storm	Happen between summer and autumn.	equator (in the tropics). Ocean temperature needs to be above 27° C.	Occur in low latitudes between 5° and 30° north and south of the	KPI9 - Tropical Storms
monitor path to allow evacuation	Monitoring wind patterns allows path to be predicted. Use of satellites to				· ·		e.g. the Paris Climate		emission sources is stored	akes	 Planting Trees – helps to remove carbon dioxide. 		ICE CO2	- Alternative energy	Mitigation	KPI19 - Wanaging Climate Change	CDITO NASSESSEE CHI		shelter kits for families	Committee helped	Disaster Emergency	buildings.	1,069 emergency	Immediate Responses		ē		Tacloban destroyed	5m Storm Surge	At least 6300 killed	Primary Effects	2013	KPI13 - Typhoon Haiyar		
Evacuat		(P120 – Planning, Prediction a	Suits.	forests, or raising buildings on	defences such as the Thames Flood	levels would involve constructing	glaciers and fog catchers. - Reducing risk from rising sea	harvesting through artificial	and increasing supply through desalination plants. Water	installing water efficient devices	threat of disease and pests. -Managing water supplies — eg. by	and temperature patterns and	need to react to changing rainfall	- Changes in agricultural systems	Adaption	e Change			boats	improved.	systems have been	Typhoon warning		Long-term Responses	adplies	Airports unusable for	-Looting	destroyed, Public Order	Water supply polluted	\$14 Billion of damage	Secondary Effects		KPI13 - Typhoon Haiyan, Philippines, November	Year 10	:
	Avoid building in high risk areas Reinforce Emergency drills safe, Flo	KP120 – Planning, Prediction and Protection of Tropical Storms		- Increased extreme weather	affect diet and jobs.	- Declining fish in some areas	flooding	Asia is at risk of increased	- Increased flood risk 70% of	Africa. Water scarcity in South	water supply in sub-Saharan	- Droughts reduce food and	will need more irrigation.	increase in Northern Europe but	12% in South America but will	- Crop yields affected by up to	milder winters.	- Winter deaths decrease with	Social	KPI17 - Effects of Climate Change	harvest and weather reports.	· Temperature Records: His	us reliable evidence for the last 10 000 years		Remains of organisms fou	layers of ice can be analys	· Ice and Sediment Cores:	The Met Office has reliable clusing several methods.	KP115 - Evidence for Climate Change		natural. Hov	Evidence for climate chang	KPI14 - Climate Change - natural or human?	Geography – The Challenge of Natural Hazards	!
seawalls, Replanting Mangroves	Reinforced buildings and stilts to make safe, Flood defences e.g. levees and	18		biodiversity.	decline in	- Coral bleaching and	forest fires.	pests, disease and	America may			- Warmer rivers affect	-				to flooding and	h - Sea level rise leads	Environmental	Climate Change	orts.	Temperature Records: Historical records date back to the 1850s. Historical records also tell us about	us reliable evidence for the last 10 000 years	Pollen Analysis: Pollen is preserved in sediment. Different species need different climatic conditions.	Remains of organisms found in cores from the ocean floor can be traced back 5 million years.	layers of ice can be analysed. Ice cores from Antarctica show changes over the last 400 000 years	Ice and Sediment Cores: Ice sheets are made up of layers of snow, one per year. Gases trapped in	The Met Office has reliable climate evidence since 1914 – but we can tell what happened before that using several methods.	Change		natural. However, the rate of change since the 1970s is unprecedented	Evidence for climate change shows changes before humans were on the planet. So some of it muct be	ural or human?	llenge of Natural Haz	
		temporarily.	temperatures	reducing global	aerosols reflect	volcanic	- Volcanic activity	every 11 years.	to a maximum	- Solar Output –	tilted on an angle.	elliptical its axis is	Earth's orbit is	changes as the	Earth's surface	energy on the	- The sun's	- Orbital changes	Natural	KPI18 – Causes of Climate Change		ne 1850s. Historical r	are thicker in warm,	nt species need diffe	oor can be traced bac	show changes over the	rs of snow one per v	but we can tell what I			e the 1970s is unprec	ans were on the plant		ards	
through photosynthesi:	reduces ability to plane to absorb carbon	atmosphere and	dioxide in the	increases carbon	logging and clearing	- Deforestation —	contribution.	met and rice increase	growing demand for	from cows etc. Larger	to methane production	greenhouse gases due	for around 20% of	- Agriculture - accounts	greenhouse gases.	accounts for 50% of	carbon dioxide with	- Fossil fuels – release	Human	Jimate Change		ecords also tell us about	wet conditions This gives	rent climatic conditions.	k 5 million years.	he last 400 000 years.	par Gases tranned in	happened before that			edented.	at So some of it must be			

KPI9 - Tropical Storms

-	Human Development /	7	Life expectancy			Infant mortality	Social	oita	Gross National	Gross Domestic Product per capita		Employment type	Econom	These are used to compar development.	KPIZ WI	protect	+	levels of inc technology.		Development is an imp	KPI 1 V
education level and income per person.	A number that uses life expectancy,	Mixed indicators	The average lifespan of someone born in that country.	The percentage of population over the age of 15 who can read and write.	reaching I per 1000 babies born.	The number of children who die before	Social indicators examples	person, per year in US dollars.	An average of gross national income per	This is the total value of goods and services produced in a country per person, per year.	and quaternary industries.	The proportion of the population working in primary, secondary, tertiary	Economic indicators examples	I hese are used to compare and understand a country's level of development.	KPIZ Weasuring development	protection of the environment.	This is an improvement in people's standard of living. For example, clean water and electricity.	Inis is progress in economic growth through levels of industrialisation and use of technology.		Development is an improvement in living standards through	KPI 1 What is development?
Migration	Health		Wealth	Levels of dev		Climate	Extrem affects	Reliabi		Availat Access	• Fuel so			Developme		HICs	NEEs	LICS			
If nearby countries have higher leve move to seek better opportunities	those in less developed countries.	Better healthcare means that people	People in more developed countries countries.	Levels of development are different in different countries. This uneven consequences for countries, especially in wealth, health and migration.	KPI 6 Consequences of Uneven Development	Climate can attract tourists.	affects health.	Reliability of rainfall to benefit farming.	Climate	Availability for timber. Access to safe water.	Fuel sources such as oil.	Natural Resources	KPI 4 Physical factors affecting uneven development	ent is globally uneven with most HICs located in Europe, North America a Most NEEs are in Asia and South America, whilst most LICs are in Africa	KPI4 - Causes of uneven development	These countries are wealthy with	These countries are getting richer primary industry to the secondary wages.	Poorest countries in the world. GN low standard of living.	KPI3 Variations in the level of development	The Changing Ec	Year 10 Geography
If nearby countries have higher levels of development or are secure, people will move to seek better opportunities and standard of living.	0	Better healthcare means that people in more developed countries live longer than	have higher incomes than less developed	Levels of development are different in different countries. This uneven development has consequences for countries, especially in wealth, health and migration.	Jneven Development	difficult.	 difficulties, Mountainous terrain makes farming 	 Landlocked countries may find trade 	Location/Terrain	Frequent hazards undermines redevelopment.	Risk of tectonic hazards.	Natural Hazards	ing uneven development	Development is globally uneven with most HICs located in Europe, North America and Oceania. Most NEEs are in Asia and South America, whilst most LICs are in Africa.	even development	a high GNI per capita and standards of living. / on services.	as their economy is progressing from the industry. Greater exports leads to better	Poorest countries in the world. GNI per capita is low and most citizens have a low standard of living.	level of development	conomic World	eography
and infrastructure.		 ability to trade. Ability of the country 	government can affect the country's	and national governments. The stability of the	Corruption in local	Politics	ווו נווכ ומנמוכ.	develop the country	money can help	 Educated people earn more money, meaning they also 	produced.	meaning more goods	 Education creates a skilled workforce 	Education	trade links becoming established.	Too much reliance on aid might stop other	 Aid can improve services such as schools, hospitals and 	countries develop key projects for infrastructure faster.	 Aid can help some 	Aid	KPI5 Human factors affec
while ago, have now develop further.	industrialisation a	Countries that went through	many other countries.	helped Europe develop, but slowed down development in	Colonialism has	History	development.	healthcare means	More money on	People who are ill cannot work so there is little contribution	suffer from diseases.	means a large	Lack of clean water and poor healthcare	Health	profitable than raw	Trading goods and services is more	improve the national economy. Having good trade	more than they import have a trade surplus. This can	 Countries that export 	Trade	KPI5 Human factors affecting uneven development

The Changing Economic World Year 10 Geography

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KPI10 Location & Importance

- Following the Second World War, weakened British forces retreated from India and in 1947, India declared independence and formed its own country
- Importance: Large coastline with deep harbours. Connected to Europe via the Suez Canal

KPI 11 Impacts of India's development

minimum pay. India's middle class is growing with more managerial and well-paid jobs, e.g. in IT. Many factory jobs are for unskilled, young women on

2004, 62% of Indian's paid a bribe to get a job done. The quality of life has not improved for all Indians. In

Social

However, life expectancy has improved from 57 years in 1990 to 68 years in 2015.

KPI12 - Environmental Problems of Industrial Development

are caused by industrial growth as harmful pollutants have entered the city's 200 lakes. Mining and oil extraction also cause problems because in Mumbai in 2010 6,000 barrels of oil leaked endangering local birds India has massively increased its greenhouse gas emissions as manufacturing has grown. In Bangalore problems

KPI13 The role of TNCs in India

TNCs = Transnational corporation

Advantages and Disadvantages of TNC investment

- Coca-Cola offer training and education. Coca-Cola runs some community schemes in Africa and SE Asia
- Coca-Cola employs more than 25,000 people in India. Indirectly, Coca-Cola has created an estimated 150,000 jobs in related industries
- Coca-Cola draws around 510,000 litres of water each day from boreholes and open wells leading to water shortages in many areas

KPI 14 Aid & Debt relief in India

The 2008/09 oil spills devastated swamps and its ecosystems

Industry has caused toxic chemicals to be discharged in open sewers - risking human health

80% of forest have been cut down. This also increases CO² emissions.

aid - up until 2015 India received £200 million from the UK to tackle poverty. 'Top down' aid - dams have been built to generate HEP which in turn improves the economy. 'Bottom up' aid - the charity WaterAid trains local Short term aid – the UK sent £10 million, a rescue team and 1,200 tents after the earthquake in 2001. Long term

people to maintain village handpumps

Case Study: Economic Change in the UK

KPI 15 UK in the Wider World

Importance: The UK has one of the largest economies in the world. The UK has global transport links i.e. Heathrow and the Eurostar

KPI 16 Causes of Economic Change

are lower. Government investing in supporting vital industries have moved overseas, where labour costs industrial base. Globalisation has meant many De-industrialisation and the decline of the UK's

Numbers in primary and tertiary industry has stayed the has decreased The quaternary industry has increased, whilst secondary

KPI 17 Towards Post-Industria

Big increase in professional and technical jobs

KPI 18 Cambridge Science Park

A major quaternary industry on the outskirts. Good transport access to the A14 and M11. A good location for Attracts clusters of related high-tech businesses sourcing highly educated workers from Cambridge University. Staff benefit from attractive working conditions.

KPI 19 Change to a Rural Landscape - South Cambridgeshire

Cambridge growing - Current population is 155,000 but will increase to 175,000 by 2026

Resentment towards poor migrant communities

of identity. Villages are unpopulated during the day causing loss Rising house prices have caused tensions in villages.

Sales of farmland has increased rural unemployment.

Lack of affordable housing for local first time buyers

conomic

Influx of poor migrants puts pressures on local services

KPI 20 Improvements to Transport

- superhighway (A303) by spending £2bn to widen Road improvements: Building of a south west
- Railway improvements: London Crossrail costing and bring an additional 1.5 million people within £16.8bn to improve journey times across London 45 minutes of central London.
- Heathrow airport at a cost of £18.6 bn. Predicted Airport improvements: Build a new runway at to bring more jobs
- and money to the UK. Many people are concerned about the noise from a new runway.
- Port improvements: Liverpool2 building cost to 1.5 million containers each year £400 million and has doubled the ports capacity

Evidence for a North South Divide:

KPI 21 UK North/South Divide

- expectancy in East Dorset 2013 = 83.1, female life Lower life expectancy in North, e.g. life expectancy in expectancy | Kensington and Chelsea = 84.7. Higher life expectancy in South, e.g. male life Manchester 2013 = 71.8 (male) and 77.8 (female).
- Businesses such as the BBC have moved their businesses to cities in the North
- Enterprise Zones have been created to encourage new businesses.
- The government has proposed improved transport major northern cities links including a high speed railway link connecting

The Changing Economic World Year 10 Geography

Population Pyramid	inci	Death rate	Birtl		Rir	th a	nd death rates		The The dem	affect the total population of a country.	over time. It studies how birth rate and death rate	shows population change	The demographic		
Population Pyramid Men Women Men Women Men Women Men Women This is a visualization from OutWorldinData.org, where you find data and research on how the world is changing	Natural Stable or slow increase increase	rate High	Birth rate High	Stage 1	(pe	er 1,0	00 people per year)	Birth rate	The five stages of the demographic transition The demographic transition is a model that describes why rapid population growth is a temporary phenomenon.	e.g. Tribes		ange High DR, High BR	STAGE 1		
Men Women here you find data and research o	Rapid increase	Falls rapidly	High	Stage 2	\=		Z		of the demographic transition del that describes why rapid population growth is a temporary phenomeno	e.g. Kenya	Very High		STAGE 2	KPI 7 The Demogra	The Changing Economic World
Men Women	Increase slows down	Falls more slowly Low	Falling	Stage 3			Natural Increase		nographi	e.g. India	High	Rapio	STAGE 3	KPI 7 The Demographic Transition Model	ECONOMI
Men Women	Falling and then stable		Low .	Stage 4					c transiti					odel	C WOIIQ
Men Women Men Women Men Women Licensed under CC-BY-SA by the author Max Roser.	Little change	Low	Yet to be seen (Possibly falling further, possibly rising again)	Stage 5				$\left\langle \cdot \right\rangle$	On Our World in Data	e.g. UK	Zero		STAGE 4		
					7	2	,	~		e.g. Japan	Negative	Slowly Falling DR	STAGE 5		
Ebola and terrorist threats have had a detrimental effect on tourist numbers Tourism is seasonal many a winter sun destination	Development Problems		skies and palm filled sandy beaches in the	Gambia is an LIC located on west coast of Africa. Location makes it an attractive place for visitors to explore the tropical blue coast	Location and Background	KPI 9 Case Study: Reducing th	Fair trade This is a movement where farmers get a fai price for the goods produced. + Paid fairly so they can develop schools & health centresOnly a tiny proportion of the extra money reaches producers.		improve literacy rates, building dams, improving agriculture. - Can be wasted by corrupt governments or they can become too reliant on aid	This is given by one country to another as money or resources.	<u>Aid</u>	large scale.	 Its not clear they can reduce poverty at a 	+ Loans enable people to begin their own	This involves people in LICs receiving small loans from traditional banks.

KPI 8 Reducing the Global Development Gap

	Loans enable people to begin their own	ans from traditional banks.	his involves people in LICs receiving smalls ;;	_	Microfinance Loans
technology & expertise.	+ Leads to petter access to finance,	illi astructure ili allottier country.	fractriction in another country	This is when one country buys prope	י טיכוצוו-מוו ככר ווואפטנווופוור

is when one country buys property or Foreign-direct investment

- not clear they can reduce poverty at a

Investment can come with strings

attached that country's will need to comply

+ Means more money can be spent on

development.

interest rates are lowered.

This is when a country's debt is cancelled or

Debt Relief

- Locals might not always get a say. Some

aid can be tied under condition from donor

Fair trade

- id fairly so they can develop schools &
- y a tiny proportion of the extra money nes producers

Technology

Includes tools, machines and affordable equipment that improve quality of life.

- + Renewable energy is less expensive and
- Requires initial investment and skills in operating technology

KPI 9 Case Study: Reducing the Development Gap In The Gambia

-Gambia and relic workers -150,000	mbia is an LIC located on west coast of ca. Location makes it an attractive place risitors to explore the tropical blue seas, and palm filled sandy beaches in the winter.
-In 20%	Location and Background

IC located on west coast of makes it an attractive place xplore the tropical blue seas, filled sandy beaches in the winter.	on and Background
-Gambia has few natural resource depo and relies heavily on remittances from workers overseas and tourist receipts -150,000 people visit per year	-In 20% of GDP comes from tourism

natural resource deposits

Multiplier effect

- money has been spent in shops and other businesses. -Jobs from tourism have meant more
- Health improvements. to support tourism Poverty rates declines from 58% to 48% Government has invested in infrastructure

Y10 FRENCH MODULE 5: LE GRAND LARGE

].		
1	During the summer holidays	Pendant les grandes vacances
2	I really like to spend time with my	j'aime beaucoup passer du temps
	friends in town	
ω	however we normally go abroad	pourtant on va normalement à l'étranger
4	Last year I went to France	L'année dernière je suis allée en France
5	with my family for two weeks	avec ma famille pendant deux
	2	semaines
6	We stayed at a campsite in the	Nous sommes restés au camping
	southwest of France	dans le sud-ouest de la France
7	I would say that it was really relaxing	Je dirais que c'était vraiment
		relaxant
∞	despite the fact that we did not have	malgré le fait qu'on n'avait pas
	electricity!	d'électricité!
9	Nevertheless, I would have	Néanmoins, j'aurais préféré rester
	preferred to stay in a hotel or a villa	dans un hôtel ou un villa
10	because it would be more	car ça serait plus confortable.
	comfortable	
11	Next year we will go to Spain	L'année prochaine on ira en Espagne
12	I'm looking forward to it	j'attends avec impatience
13	because we will stay in a big villa!	parce qu'on restera dans un grand villa!
14	I have always dreamed of going to	J'ai toujours rêvé d'aller à New York.
	New York.	
15	I would like to see the monuments there and do some shopping.	J'aimerais y voir les monuments et faire des achats.
16	I have never gone to the United	Je ne suis jamais allée aux États-Unis
	States so I hope that my dreams will	donc j'espère que mes rêves se
	come true one day.	réaliseront un jour
17	Last month I travelled to Wales all	Le mois dernier j'ai voyagé au Pays
	alone	de Galles toute seule
18	to visit my grandparents, it was	pour visiter mes grands-parents,
	completely disastrous!	c etait completement desastreux:
19	I had packed all my luggage	J'avais préparé tous mes bagages
20	but I forgot them at home!	mais je les ai oublié chez moi!

Grade 7+ Show Off Language

Grade /+ Snow Off Language
Opinions
malgré le fait que-In spite of the fact that
je dois avouer que- I must admit that
j'attends ça avec impatience- I'm excited for it/that (I await it with impatience)
j'en ai marre- I'm tired of it
soitsoit eitheror
je suis mal à l'aise avec- l am uncomfortable with
Subjunctive
bien que je sois (paresseux/se)- even though I am (lazy)
il faut que je fasse- I have to do
c'est dommage qu'il soit- it's a shame that it's
je doute qu'il soit important de + infinitive- I doubt that it's important to
Si clauses + conditional
si j'avais l'occasion- if I had the opportunity (I would)
si j'étais riche- If I were rich (I would)
si j'avais le temps - If I had the time (I would)
si je pouvais - If I could (I would)
Past Tense
j'aurais aimé + infinitive- I would have liked (to)
j'avais décidé que- I had decided that
j'avais toujours rêvé de + infinitive- I had always dreamed of
je me suis rendu(e) compte que- I realised that
j'étais ravi(e) que- I was delighted that
j'étais en train de + infinitive- I was in the middle of (doing)
Connectives
néanmoins- nevertheless
du coup- thus/therefore
au lieu de- instead of
après avoir fait cela- After having done that

Y10 SPANISH MODULE 5: CIUDADES

playa con mi hermana	will go to the beach with my sister	
Mañana si hace buen tiempo iré a la	Tomorrow if there is good weather, I	11
guay	cool.	
familia. Alquilamos una bici que fue	family. We rented a bike which was	
El año pasado visité Londres con mi	Last year I visited London with my	10
no había mucho tráfico	there was not much traffic	
Antes mi pueblo era más tranquilo y	Before my town was more quiet and	9
y se puede subir a la torre	and you can go up to the tower	
En mi pueblo se puede ir de excursión	In my town you can go on a boat trip	00
El centro y en el centro comercial	and at the shopping centre	
Me encanta ir de compras en	I love to go shopping in the city centre	7
hay más que hacer	are more things to do	
Prefiero vivir en una ciudad porque	I prefer to live in a city because there	6
supermercado y unas tiendas	supermarket and some shops	
Sin embargo , hay un cine, un	However there is a cinema, a	5
para los jóvenes	for young people	
Diría que no hay mucho que hacer	I would say that there is not a lot to do	4
siempre llueve	rains	
Generalmente hace mal tiempo,	Usually there is bad weather, it always	ω
Inglaterra. Está rodeado de bosques.	England. It is surrounded by woods.	
Está situado en el suroeste de	It is located in the southwest of	2
	town near to Bristol.	
pequeño, cerca de Bristol	I live in Coleford which is a quite small	
Vivo en Coleford que es un pueblo		Н

20		19			18	17			16	2012	15		14		13		12	
The food was delicious and I would like to go back again.	beautiful and the people were welcoming.	Last year I went to Perú. The city was		better for the environment	I would invest in bike lanes because is	But the worst is the public transport	spaces	town is that there are many green	I would say that the best about my	there are many bargains	I love second-hand shops because	more comfortable	I prefer to shop online because it is	books at home	However, if it rains I will rest and read	love fashion	I will buy clothes and shoes because I	
La comida era deliciosa y me gustaría volver otra vez.	tanto tráfico.	Lo peor de mi pueblo es que hay	medio ambiente	para bicis porque es mejor para el	Invertiría en rutas	Pero lo peor es el transporte público		que hay muchos espacios verdes	Diría que lo mejor de mi pueblo es	mano porque hay muchas gangas	Me encantan las tiendas de segunda	más cómodo	Prefiero comprar en línea porque es	leeré libros en casa	Sin embargo, si llueve descansaré y	encanta la moda	Compraré ropa y zapatos porque me	

Year 10 RE GCSE F	Year 10 RE GCSE FULL Paper One — Christian worship and practices
Liturgical	Church service that follows a set order and structure.
Non liturgical	A service that doesn't have a set order or structure.
Informal	Type of non-liturgical worship that is spontaneous e.g. Quaker and charismatic Christian worship
Prayer	Speaking to God
Lords Prayer	Set prayer taught by Jesus aka the 'Our Father'
Sacraments	Christian rituals where believers receive God's grace (free gift of love)
Eucharist	Aka Holy Communion. Christian sacrament that uses bread and wine to re-enact the Last Supper and commemorate the death and resurrection of Christ.
Baptism	Baptism: Christian sacrament representing entrance into the Christian faith. Usually involves water
Transubstantiation	The belief that the bread and wine actually become the body and blood of Christ
Memorialism	Christ is not present, the Eucharist is carried out in remembrance of Jesus

KPI1:To understand what is meant by worship and different forms of worship

- Worship is an act of showing devotion to God.
- Worship can be formal or informal, in a group or done individually (private worship)
- ·Liturgical worship involves a set format for worship, it can contain liturgies
- Non liturgical worship is where there is no set structure, or where worship may be spontaneous.
 Informal worship is worship is more relaxed it is sometimes charismatic, it can be help at any time.

KPI2: To investigate the nature of prayer and its significance.

- •Christians describe prayer as a conversation with God. Prayer can be silent or said out loud. It can use set words, or a person's own words.
- •There are many different kinds of prayer, including: adoration praising God for his greatness confession owning up to sin and asking for God's forgiveness thanksgiving thanking God for his many blessings, petition asking God for something, intercession asking God to help others who need it,

Most Christians believe prayer deepens a person's faith. Praying can help the believer come to a greater understanding of God's purpose for their lives.

KPI3: To explore the sacrament of baptism and the different forms amongst the church.

- •Infant Baptism-In some Christian denominations babies are baptised as a symbol of welcome and belonging to the family of the Church. In this ceremony water is sprinkled on the baby's head as a symbol of new life and of being washed clean from sin. Parents and godparents promise to bring the baby up in the Christian faith following Jesus's example.
- •Adult baptism- In some denominations people are not baptised until they are old enough to make the promise to follow Jesus Christ for themselves. Christians try to follow Jesus's example. He was baptised as an adult.

s KPI5- To apply key religious teachings to the topic of worship

do this in remembrance of of the Father and of the Son covenant, drink it in me, this cup is the new **Eucharist: 1 Corinthians** and of the Holy Spirit." baptising them in the name 11:23-26 "This is my body, disciples of all nations, 28:19 "Go and make Commission: Matthew Baptism- The Great forgive us" today our daily bread and Matthew 6:9-13 "Give us Prayer: The Lord's prayer:

KPI4: To be able to understand the sacrament of Holy Communion and the different ways Christians celebrate communion.

- The Eucharist is a re-enactment of the Last Supper, the final meal that Jesus Christ shared with his disciples before his arrest, and eventual crucifixion. The Eucharist, which is also called the Holy Communion, Mass, the Lord's Supper or the Divine Liturgy, is a sacrament accepted by almost all Christians.
- wine physically remain the same, it is transformed beyond human comprehension into the body; blood soul and divinity of Jesus. This is called Although all denominations recognise the importance of the Eucharist, they differ about its meaning. Roman Catholics believe that although the bread and Transubstantiation.

wishes to can take some. wine from a single cup In other churches (e.g. non-conformist) bread is usually set on a table alongside nonalcoholic wine in small cups and anyone who In some churches (e.g. Roman Catholic) people come to the front to receive communion from the priest, usually in the form of a wafer and some alcoholic

remembrance of me."

3	7	000	m	7	10	59	page			NEED TO THE
Persecution	Reconciliation	Church growth	Evangelism	Mission	Street pastors	Food banks	Easter	Christmas	Pilgrimage	RE GC
Christians in places like North Korea and Syria are being persecuted by being attacked, forced to pay extra taxes or	The worldwide Church has a mission to heal people's relationship with God and with one another.	Church attendance is falling in the UK, but is increasing rapidly in places like Africa	Spreading the teachings of Jesus	A vocation or calling to spread the teachings of Jesus. The Great Commission: Jesus instruction to his followers to go and spread his message "Go and make disciples of many nations"	Christian volunteers who provide free help and support to people, especially those who are out on a Friday or Saturday night.	The Trussell Trust is a Christian charity that provides emergency food to people in crisis	Christian festival commemorating the death and resurrection of Christ	Christian festival celebrating the incarnation of Jesus	A journey made to a holy site for religious reasons.	RE GCSE FULL Paper One – Christian worship and practices

KPI9:

- Missionary work means an organised effort to spread Christianity.
- Christians have suffered persecution in the past. Just after Jesus had died, many people began joining the new religion that Jesus had started called Christianity.
- Under the role of Roman Emperor Nero Christians were persecuted for their beliefs. Many of Jesus' disciples were persecuted and died horrible deaths such as being crucified or boiled alive.
- Tearfund are a Christian charity. They believe their duty is to follow the example of Jesus and help the poor and needy. They work in over 50 countries and provide short and long term aid.

KPI6- To describe the role and importance of pilgrimage.

A pilgrimage is a journey made for areligious reason. The believer makes a physical journey but it is also where Jesus lived and died. Christians go on pilgrimage to grow closer to God and seek a cure for an a spiritual journey toward God. Pilgrims may visit the Holy Land, particularly Jerusalem, because it is

The pilgrimage site of **Lourdes** is near the Pyrenees mountains in France. Every year, it is visited by millions of pilgrims, particularly Roman Catholics.

lona: Scottish island where Christians of all denominations go to pray, read the Bible and meditate

KPI7: To investigate Christian festivals

service (mass), gifts might be given or received which reminds Christians of the gift of Jesus services often including carol singing, Some Christians start Christmas day with a midnight communion celebrated: the story of Jesus' birth (the nativity) is re-told by children through nativity plays, church Christmas is a Christian festival remembering the birth of Jesus. Here are some of the ways it is

Easter remembers the crucifixion and resurrection of Jesus.

- Holy week begins with Palm Sunday, on Maundy Thursday, Jesus shared the last supper with his disciples.
- On good Friday Jesus was crucified by the Romans. Throughout the gospels, Jesus says that he will have to die but that his death will save many.
- Jesus was resurrected on Easter Sunday. Easter is celebrated by giving eggs which are a symbol of new life, Christians might attend church and share communion.

KPI8: The role of the church in the local community: Food Banks The Trussell Trust

- Founded in 1997 it provides emergency food help and support to people in the UK.
- Based on the parable of the sheep and goats to aim to end poverty and relieve hunger of people
- Food is donated by churches, supermarkets, schools and business and care professionals identify people in need and give vouchers so that they can get food to help them in the short term.

Street Pastors

- The parable of the sheep and goats shows how Christians should help others and show agape
- Street pastors started in 2003 in London with volunteers to work on the streets to patrol areas to provide a reassuring presence to people at night
- They want to help people in practical ways working with the council and the police. They go out to listen to people, giving advice about where they can go, or to offer flip flops to girls whose shoes have broken or space blankets to help keep people warm

Types of Food Service	Sectors of the H&C Industry	Job Roles in the H&C Industry	Factors Affecting the Success of H&C
Plate:	Residential - Commercial:	Managers:	Money:
Meals are pre-plated in the kitchen	Hotels, Guest houses, Bed and	Day to day running of business,	Needed for: food, ingredients,
Good portion control methods.	breakfast, Inns, Pubs, Farmhouses,	Finances, security,	equipment, health and safety,
All plates are consistent in the food	Holiday camps/parks, Glamping (luxury	Employment/dismissal of staff, staff	wages/pensions/national insurance,
presentation.	camping), Cruise ships, Long-distance	training and development, customer	cleaning materials, waste disposal,
Silver:	trains, airlines, motorway services,	satisfaction, business	pest control, administration, heating/
This type of service requires more	youth hostels.	development/planning, health, safety	lighting/gas, maintenance work and
training for waiting staff, it is a skill.	Residential - none commercial:	and welfare of staff and customers,	gardening, breakages/repairs.
Food is fully cooked in the kitchen	NHS Hospitals, NHS nursing and care	cleaning and maintenance of building,	Making a profit:
but presented on platters.	homes, emergency services, prisons,	following health, safety and	Ordering ingredients/materials,
A silver spoon and fork are used to	colleges/universities, boarding schools,	employment laws, problems and	wastage, trained and skilled workforce,
serve food from a platter to a	Army/Navy/Air Force, Hostels/shelters,	complaints.	popular menu choices, range of
gliest's plate at a table	private nursing and care homes.	Administrators (secretaries, assistant	services offered, breakages/repairs,
Buffet.	Non-residential commercial:	managers, accountants, cashiers):	planning for events, feedback/reviews
Englest in class to the	Restaurants, bistros, cafes, dining	Smooth running of	from customers, economy of country.
The feed on the late.	rooms, canteens, tearooms, coffee	business/departments, organising the	Customer service & satisfaction:
the lood can be not or cold.	shops, takeaway and fast food outlets,	manager's diary, sending letters,	quick and well run service, take action
it can be self-service or served by	pubs, bars, clubs, casinos, street food,	emails, making phone calls, typing,	on customer feedback, staff who listen
staff, or a mixture of the two.	pop-up restaurants, mobile/roadside	filing, organising staff and customer	to customers, staff who understand
Poor portion control when people	food vans, motorway services,	details, books, taxation, etc, ordering	customers' needs and wants, provides
help themselves and can go back	visitor/tourist attractions (theme	supplies (cleaning materials,	what customers expect, well trained,
for more.	parks, museums, zoos, etc), sports	food/drink), managing events,	helpful staff, complaints promptly and
Vending:	stadiums, concerts/gig venues.	organising IT support.	politely dealt with.
Food service from a machine.		9	Trends:
Food can be served 24 hours.		:	Information and computer technology
Usually snacks are served in this			 satellite technology and beacons,
way but it can also be hot meals.			customer relationship management
			systems, social media. Food/drink
			trends, environmental sustainability.

Types of Food Service (cont)	Sectors of the Hospitality and Catering	Job Roles in the H&C Industry (cont)	Policies, Laws and Regulations
	וווממפנו א (בסווג)		
Fast Food:	Non-residential none-commercial:	Front of House Staff (Receptionists,	Licensing laws for selling alcohol:
Customers collect food from a	Workforce catering - canteens, dining	Waiting staff, Valets(park car for	 Must have a licence to sell
counter. Quick and simple method.	rooms in factories, constructions sites,	customers), drivers, bartenders,	alcohol
Food served in disposable	shops, etc,	cashier, concierge (assists	 Alcohol can only be sold at
packaging-bad for the environment.	Voluntary sector/Health Worker -	guests/customers):	certain times of the day
Gueridon:	senior citizen luncheon clubs, charity	Representing and promoting the	 Alcohol can only be sold to
Food is cooked, finished or	food vans and cafes, day-care centres.	business, working directly with	people who are 18 years or
presented to the guest at a table.	Education - Childcare day nurseries,	customers and back of house staff,	over
from a moveable trolley	school holiday clubs.	taking bookings, checking customers	Employment Laws cover:
This might involve flambéing an	Public sector catering - Schools.	in/out of the building, dealing with	Health and safety regulation
item, carving it, cooking on a hot		customer questions/problems,	Working house /holiday optitlement
stone/plate or tossing a salad.		setting up meeting rooms.	Gender, age, religious, disability and
Turns food into entertainment and		Back of House Staff (Stockroom	aracial anti-discrimination laws
creates an atmosphere of		Manager, Kitchen Brigade,	Income Tax/insurance
sophistication.		Maintenance Team,	Child care
Counter:		Gardeners/Groundskeeper, Security	Sick pay
Counters displaying ready	3	Guards, Cleaners, Guest Room	Redundancy/dismissal
prepared/cooked food are used.		Attendants:	Employment contracts
Customers queue up. Customers		Buying and organising supplies,	Trade unions
may impulse buy from the displays.		storing/preparing/cooking food and	Employment of overseas works
Tray/Trolley:		drinks, Cleaning of building, physical	Health and Safety Laws:
A meal provided in a tray or a		maintenance of the building, security.	Fire regulations
choice of food from a trolley. Menu			building regulations, use and storage of
options are often limited and			chemicals, tobacco and e-cigarette
sometimes customers order in			regulations,
advance. Food can be prepared			drinks are safe to consume
elsewhere, reheated or made in the			Tax collection Laws - Income Tax and
premises & moved to another area.			Value Added Tax (VAT)

Art - Year 10 - Unit 1

Formal Elements

A mark that connects two or more points. These can be straight, curved, short or long.

Tone

The lightness or darkness or something. For darker tones use a higher grade B pencil.

Colour

Colour is what you see when light reflects of something.

Texture

How something looks or feel e.g. fluffy, rough, smooth etc.

Visual Texture - implied sense of texture that the artist creates through the use of various artistic elements such as line, shading, and color.

Physical Texture - texture you can actually feel with your hand

Pattern

A symbol, shape or colour that repeats. Man-made patterns are designed by humans, natural patterns are formed by nature.

Shape/Form

Shape is 2D e.g. rectangles. Form is 3D e.g. cubes, spheres etc.

Colour Theory

Primary Colours

Colours that can't be mixed/ made from other colours e.g. red, yellow and blue.

Secondary Colours

Colours that can be made by mixing two primary colours.

Red + Blue = Purple

Yellow + Blue = Green Yellow + Red = Orange

Tertiary Colours

Colours that can be made by mixing a primary and secondary colour together e.g. Blue + Green = Turquoise.

Complementary Colours

Colours that are opposite each other on the colour wheel.

Blue & Orange

Red & Green

Purple & Yellow

Analogue/ Harmonious Colours

Colours that are next to each other on the colour wheel e.g. Red, red-orange and orange.

Tints/ Shades

Tint - Adding white to a colour to make it lighter.

Shades - Adding black to a colour to make it darker.

<u>Tips, Tools & Techniques</u>

Grid-Method

A method of drawing to recreate, enlarge or reduce an image ensuring accurate proportions.

Mono-Printing

A form of printmaking that has lines or images that can only be made once.

Shading Techniques

Hatching, Cross-Hatching, Stippling and Scumbling.

Blender Stick

A paper stump that allows you to blend tones.

Acrylic Paint

A water-soluble paint which can be layered due to quicker drying time without muddying previously applied layers.

Thumbnail Designs

Small sketches outlining ideas in a simplistic way.

:

Keywords, Concepts & Artists

Proportion

The size and relation of objects to one another. Using the grid-method is one way of helping you draw using accurate proportions.

Composition

This is where you place objects on a page. You can explore different layouts such as close up, far away, busy, quiet, off centred clustered.

Mixed Media

Artwork in which more than one material has been used.

Copy of Work

Copying the style and technique of an artist's work to enable you to understand the process of how it has been made.

Own Interpretation

Developing your own work by applying artist style or technique to your own ideas.

Refining Ideas

Annotating and evaluating experiments and as a result making decisions to improve work.

Billy Elliot plot

Billy Elliot is set in the county town of Durham. It follows the story of a young boy who discovers he has a love for dance, yet he faces a backlash from his family and the community he lives in.

The play is set during the 1980's Miners strike. It is a musical which makes many reference to the conservative government at the time.

The performance starts with the audience being informed that the Miners are going on strike. We then are introduced to the main character and his best friend Michael, who don't seem to understand what is happening around them.

We learn that Billy lives with his Dad, Brother and Grandma, his mam passed away a few years ago.

After arriving late to a boxing class he is forced to stay behind. A ballet class then enters the hall and he takes part. As the show goes on he stop going to boxing and continues to go to the ballet class. The dance teacher, Mrs Wilkenson, convinces Billy to Audition for the Royal Ballet school However, is firstly denied by his family. Due to the on going circumstances with the strike.

After some time his dad goes against his community and family and supports Billy in his dream. Billy auditions and gets into the Ballet school.

The performance ends with the Miners finding out that they have lost their fight against the government and are forced back to work.

Background of the play

Written by Lee Hall, Billy Elliot is set at a time when English communities were divided by the political landscape at the time. Lee Hall was raised in Newcastle which was an area hit hard by the mining strikes of the time.

Throughout the whole performance the theme of social class is very apparent. There are many instances of the issues faced by working class committees highlighted throughout the performance. An example of this is during the song Solidarity. We see the struggle between Miners and Police officers who are clashing on the picket line. This is combined with a ballet class, showing us the innocence of the children and Billy, while such turmoil is happening around them.

There was a large gap between working and middle class in Britain, even before the industrial decline. The Miners and the police are class stereotypes. A lot of working class people struggles finically, even if they were in work or on the dole. The Middle class were largely unaffected by the industrial decline and strikes at the time. There was also a class divide in education, whether you went to a public and private schools often decided your job in the future. We can see this when Billy goes to audition for the Ballet School.

Families were expected to have a 'nuclear' structure- a mother, a father and their children. Single-parent families like Billy's were very uncommon and he finds a mother like figure in Mrs Wilkenson.

Key Terms

Foreshadowing - Warning or indication of a future event Pathos - Appeal to emotion Multi-role- One actor playing a two or more roles

Motif- A repeated idea throughout the story

Dialogue - Conversation between two or more characters
Tension - Dramatically used to

build suspense

Humour - Language used for amusing/comic effect

Dramatic Irony - When the audience know something that the characters do not

Songs - Contain lyrics that are set to music to give audience more information

Stage Directions - Instructions indicating how the actor should move/speak

Cyclical Structure - Finishes a similar way to how the text began Prologue - A separate introduction that reveals some of the plot Atmospheric - A distinctive mood/feel to the scene Parallels - Similarities in the text—almost a replication of events

Tragedy - A play dealing with tragic events and having an unhappy ending for main characters.

Performance Style

Billy Elliot is a Musical. Meaning it regularly has songs which forward the performance. With most musicals the performance will end on a positive note dispute what has happened in the show

Epic Theatre is another style used in this performance, it is a theatre style created by Bertolt Brecht to push a political message and highlight issues within society.

Billy Elliot is extremely political, with many references to the conservative government during the 1980's. The audience see the struggle that many people went through. There is also mention of real people, which again makes the performance Epic theatre

Gestus and Spass is also used in this performance. This can be clearly seen in the song Expressing yourself. Billy and Michael are singing about the importance of people being able to express themselves in any way they want to which is a very serious topic. As they do massive puppets of different types of clothing are seen on stage.

A third technique we see used in Blood Brothers is Multi-Rolling. This is a technique where one actor will play more than one character or more than one actor will play the same character.

Year 10 Photography—Unit 1 Term 2

demonstrating critical understanding of AO1- Assessment objective 1 – Develop ideas through investigations sources

Artist Research!

Evidence can include:

showing composition. of artist artwork, thumbnail sketches Artist research, contextual research, analysis

Grading criteria for level 9:

sources to develop ideas convincingly. investigation and in-depth understanding of Demonstrate independent critical

> appropriate media, materials, techniques AO2- Refine work by exploring ideas selecting and experimenting with and processes.

Experimenting!!

Evidence can include:

techniques, annotating of your contact sheet, post production editing. Photoshoots, investigating different

Grading criteria for level 9:

innovation to develop and refine work and technical skills, experimentation and Effectively apply a wide range of creative

> Insights relevant to intentions as work AO3-Record ideas, observations and progresses.

Annotations!!

Evidence can include:

storyboards, visual analysis of photography. Photoshoot plans, thumbnail sketches,

Grading criteria for level 9:

influences on ideas observations with well-considered Record and use perceptive insights and

> Ao4-Present a personal and meaningful demonstrates understanding of visual response that realises intentions and language.

Final Response!

Evidence can include:

A personal and purposeful response to an artist/ context. response should be informed by the study of artists/ techniques

Grading criteria for level 9:

realise personal ideas language, technique, media and contexts to Demonstrate advanced use of visual

Photography techniques

Negative space

emptiness Situates subjects within their surroundings in dramatic ways that tell a story using blank space and

Collage

or fabric on to a backing. Or merging and overlapping fragments of an image together digitally. A piece of art made by sticking various different materials such as photographs and pieces of paper

Editing contrast using curves in Photoshop



Increasing contrast

Decreasing contrast



Camera settings

A-DEP Automatic Depth of Field

M Manual

AV Aperture - Priority

TV Shutter — Priority

P Programmed Automatic

A Scene Intelligent Auto

No Flash





Night Portrait



Sports







Portrait



CA Creative Auto

demonstrating critical understanding of AO1- Assessment objective 1 - Develop ideas through investigations, sources.

Artist Research!!

Evidence can include:

showing composition of artist artwork, thumbnail sketches Artist research, contextual research, analysis

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TV Shutter — Priority

P Programmed Automatic

A Scene Intelligent Auto

No Flash





Night Portrait



Sports



Landscape





CA Creative Auto

Aperture:

- How open the lens is.
- To capture close up shots a wider lens is required.
- To capture detail in the distance a smaller lens setting is



Bigger Opening, More Light Smaller Opening, Less Light

Vantage point:

the point of view of the viewer of the photograph. The position from which the photograph was taken. It is

Frog eye view—ground level



Birds eye view—high angle and a wide view.



Low angle view—looking up at object.



Eye level view—looking straight at object.

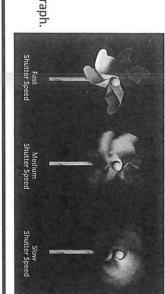


High angle view—looking down at object.



Shutter Speed:

- How quickly the shutter opens and closes.
- Used for action and movement shots.
- The slower the setting the more blurred the photograph.



Composition:

0 How objects are arranged in the frame/ photo.

Rule of thirds—Using a grid to off centre the focal point.



Symmetry and Balance—using mirroring or contrasting numerous small object against one bigger object.



Diagonals and Triangles—creating a sense of depth.



Leading Lines—to guide the viewers eye to the focal point and around the photo.



Negative Space—to frame the focal point.



Minimalism—'Less is more'. Simplistic colours and layout.



BTEC Music - Year 10

Key Terminology

Melody - a sequence of single notes that is musically satisfying; a tune

Harmony - the combination of simultaneously sounded musical notes to produce a pleasing effect.

Tonality - the character of a piece of music as determined by the key in which it is played

Rhythm - a strong, regular repeated pattern of movement or sound.

Structure - refers to the arrangement and order of the parts or sections of the music.

Instrumentation - the particular instruments used in a piece of music

Texture - refers to the effect of the different layers of sound in a piece of music, and the relationship between them.

Timbre - the character or quality of a musical sound.

Production - the process by which music is created, captured, manipulated, and preserved so that it can be distributed and enjoyed

Musical Styles - Popular

usually based around a twelve-bar structure and an instrumentation of guitar, double bass, and drums Rock and Roll - a type of popular dance music originating in the 1950s, characterized by a heavy beat and simple melodies. Rock and roll was

Punk - a loud, fast-moving, and aggressive form of rock music, popular in the late 1970s. Heavy Metal - a type of highly amplified harsh-sounding rock music with a strong beat, characteristically using violent or fantastic imagery.

Reggae - a style of popular music which uses syncopation (off-beat rhythms), originating in Jamaica. Reggae became widely known in the 1970s through the work of Bob Marley; its lyrics are much influenced by Rastafarian ideas

a reaction against American grunge music. Britpop - British pop music of the mid 1990s that was typically influenced by the Beatles and other British groups of the 1960s and perceived as

Grunge - a style of rock music characterized by a raucous guitar sound and lazy vocal delivery.

BTEC Music - Year 10

Musical Styles - Other

African life for centuries and for countless generations, an ancient instrument used to celebrate all the aspects of life. African Drumming - Traditionally, the drum was the heartbeat, the soul of most African communities. Drums have been an intrinsic part of

Theme Tunes/Jingles - a short slogan, verse, or tune designed to be easily remembered, especially as used in advertising

Orchestral - music written for an orchestra to play.

Delta Blues - a style of blues originating in the Mississippi Delta, typically featuring slide guitar.

Examples of Stylistic Features

Instrumentation: instrumental techniques, type of ensemble, alternative instrumentation, sonic features, electronic sounds

Texture: solo, duet, homophonic, polyphonic, unison.

Timbre: sonic features, electronic sounds, FX.

Tonality: major scale, minor scales, blues scale, pentatonic scale, modes, ragas, exotic scales

Scales and modes: major scale, minor scales, blues scale, pentatonic scale, modes, ragas, exotic scales

arpeggios, broken chords. Harmony: major and minor triads, power chords, 7th chords, sus chords, extended chords, suspensions, inversions, chord sequences,

Rhythmic techniques: metre, tempo/bpm, syncopation, swing, one drop/skanking, polyrhythms, hemiola, phasing

Structure: verse/ chorus, 12-bar blues, through-composed, bridge, intro, outro, ABACAD

head, improvisation. Melodic techniques: conjunct, disjunct, chromatic, diatonic, phrasing, repetition, sequence, ornamentation, motifs, round/canon, riffs, hooks,

Production: microphone use, recording styles, sampling, FX, looping, controllerism, turntablism, quantisation, sequencing, automation.

3.1.1.1 - ECONOMIC ACTIVITY

Economics is the science of choice. Choices by individuals (you) businesses, societies and governments

goods and services to satisfy needs and wants The central purpose of economic activity is the production of

resources. Therefore, all these wants and demands cannot all be economic problem: that there is more need than there are The economy is the system that attempts to solve the basic

ECONOMIC ACTIVITY

necessary for our survival such as food and water Needs - A need is any good or service that we require or that is

necessary. For example, we need water to survive but we don't hydrated need a particular brand of water to stay fundamentally Wants - A want is any good or service that is desired but is not

all wants Scarce resources - not having enough of a resource to satisfy

3.1.1.1 - ECONOMIC ACTIVITY

produce, and who is to benefit from the goods and services produced The key economic decisions are: what to produce, how to

3.1.1.1 - ECONOMIC ACTIVITY

Three Economic Groups

Consumer - a person or group that directly uses a good or

or provides a good or a service Producer - a person, company or country that grows, makes

country is run and sets the rules for markets Government - a political authority that decides how a

3.1.2.2 - ECONOMIC SECTORS

Goods - a tangible product i.e. a product that can be touched e.g. a chocolate bar

natural resources e.g. farming, fishing or Primary sector - the direct use of 3.1.2.2 - ECONOMIC SECTORS

Services - an intangible product i.e. a product that cannot be touched e.g tinancial advice.

alternatives when one alternative is chosen i.e. the opportunity cost of building a 3.1.1.3 - MAKING CHOICES - Opportunity Cost - the loss of other new school could be not spending that money to build a new hospital instead

3.1.1.2 - FACTORS OF PRODUCTION

used to make goods and services.

Factors of Production - resources in an economy that can be Markets - markets are a way for buyers and sellers to interact 3.1.2.1 - MARKETS & ALLOCATION physical or online. to establish price. Can be local, regional or global. Can be

companies, accountants.

consumers e.g. doctors, advertising Tertiary sector - providing services to manufacturing or construction.

resources into finished goods e.g. Secondary sector - converting primary

Capital - human made aides to production e.g. machines and the labour market. Factor market - a market for the factors of production e.g

production - involves risk. Reward to enterprise = profit. Enterprise - the organisation of the other factors of equipment. Reward to capital = interest. coal. Reward to land = rent. Land – natural resources such as farm land, fish stocks or

production process. Reward to labour = wages Labour – the human input (mental & physical) into the

> 3.1.2.2 - ECONOMIC SECTORS - Functions of price: via the market forces of supply and demand Market economy - an economy in which resources are allocated Product market - a market for finished goods and services.

3.1.1.2 - FACTORS OF PRODUCTION

replenished if not over used. Renewable resources - resources that can be replaced or

replaced once used i.e. finite resources Non-renewable resources - resources that cannot be

3.1.1.3 - MAKING CHOICES

on soft drinks) or producers to consume more (i.e. large profits)

Incentive - price telling consumers to consume less (i.e. taxes

Signalling - price giving a message to the consumer e.g. quality

Rationing - means resources are consumed by those most willing

(or able) to afford them.

scarcity

Choices - all choices have both costs and benefits. Choices will have economic, environment and social costs and must be understood and weighed to make a rational choice. benefits.

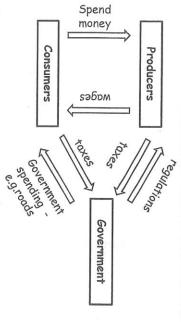
resources Economic choice - an option for the use of selected scarce

Economic sustainability - the best use of resources to create

growth.

Environmental sustainability – the best use of resources to

quality of life for people. Social sustainability - the best use of resources to improve protect the natural world and the resources within it.



3.1.2.3 - SPECIALISATION & TRADE - specialisation means that countries and even individuals can MAXIMISE their own output by producing only what they are best at. This means they create the MAXIMUM AMOUNT OF VALUE possible for them. This value can be traded to obtain an amount of goods and services they would not reach without specialisation.

3.1.2.3 - SPECIALISATION & TRADE

Division of labour – dividing a complicated task up into smaller jobs in order to create efficiency, for example a F1 pit stop.

Specialisation - workers, firms, regions and countries concentrating on producing what they are best at/most efficient at producing.

Exchange – the act of swapping what we produce for what we want/need. This allows us to benefit from specialisation.

Money - money allows us to 'store' the value of what we produce so that we can exchange it in the future, money also allows us to compare the value of goods and services.

3.1.2.3 - SPECIALISATION & TRADE

Benefits of specialisation -

More efficient use of resources - more wants and needs met for less scare resources used

Higher output - increased total production

Higher productivity – workers become more productive a if they focus on smaller tasks

Higher quality – simplified processes and specialist workers means less mistakes

Less time wasted - less switching between tasks = less time used

Economies of scale – larger output leads to economies of scale (per unit cost savings because producers are bigger)
Increased satisfaction – workers can specialise in what they enjoy most

Increased standard of living - workers are more efficient so can exchange their labour (via money) for more goods and services than they otherwise would i.e. everyone earns more

3.1.3.1 DEMAND

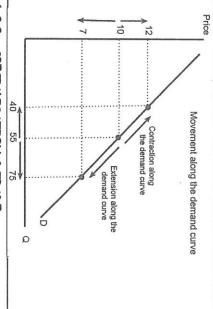
Demand - the quantity of a good or service that consumers are willing (and able) to buy at a given price. **Law of demand** - for most products the quantity demanded will vary

Law of demand – for most products the quantity demanded will vary inversely with price i.e. as price rises demand falls. This is why the demand curve slopes downwards.

Individual demand – the demand for a good/service by an individual consumer.

Market demand - the demand for a good/service by all consumers





3.1.2.3 - SPECIALISATION & TRADE

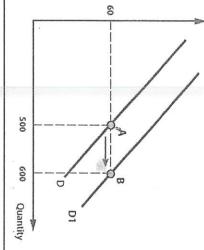
Costs of specialisation -

Dependency – workers, firms, regions and countries can become dependent on producing one good or service. What happens if demand for that good/service stops?

Failure of exchange – we all become dependant on trade – if it stops for some reason producers lack inputs and consumers lack goods and services

Bored workers – simplified processes can mean bored workers **Deskilling**– as we specialise we lose skills and abilities we otherwise would have

Unemployment - specialised workers are dependent on demand for their particular skill or for the good/service they produce. If demand falls we have unemployed workers who may lack the skills to work elsewhere



3.1.3.1 DEMAND - Shifts of the demand curve - moving the demand curve to the right or left means something aside from price has changed demand for the product shown.

3.1.3.1 DEMAND - Changes that cause shifts of the demand curve:

Changes in the price of substitute goods – some goods are very similar to others so can be consumed instead. If the price of Pepsi rises Coca-Cola becomes more desirable. Therefore demand for Coca-Cola at the current prices increases (the Demand curve shifts to the right).

Changes in the price of complimentary goods - some goods are usually consumed alongside other goods. If the price of printers fall ink cartridges becomes more desirable. Therefore demand for ink cartridges at the current prices increases (the Demand curve shifts to the right).

Changes in income – if incomes rises demand increases at any price the demand curves shifts to the right.

Changes in interest rates – if interest rates decrease consumers and businesses save less and borrow more – demand increases for goods so the demand curve shifts to the right.

Changes in tastes/preferences - on a hot day demand for ice cream increases even though the price remains the same. If a new advert is released demand also increases at all prices. The demand curve shifts to the right.

Population size – if immigration or birth rates increase demand for goods/services is higher. The demand curve shifts to the right.

3.1.5.1 MARKET STRUCTURE

Competitive market - Many buyers & sellers, No barriers to entry, Perfect information, Homogenous products

3.1.5.3 - NON COMPETITIVE MARKETS - Barriers to entry Patents, copyright, start-up costs economies of scale, legislation etc

3.1.5.3 - NON COMPETITIVE MARKETS

Impact of non-competitive markets -

Higher prices – less incentive to reduce costs for producers
Lower quality – less incentive to improve quality for producers
Less choice – less incentive for producers to innovate

Businesses are less efficient

In some cases super profits provide money for innovation Covernment may intervene to prevent uncompetitive markets

3.1.6.2 EXTERNALITIES - Impacts on third parties of economic activity.

Negative externalities – harmful effect to third party of economic activities. Examples include pollution, noise, illness from 2nd hand smoke.

Positive externalities – beneficial effect to third party of economic activities. Examples include less pollution if others ride bikes, less healthcare taxes if other quit smoking.

3.1.6.1 MISALLOCATION

Legislation – laws to control how people and companies behave.

Regulations – rules or directives to control how people and companies behave.

3.1.6.1 MISALLOCATION - State provision - goods and services supplied directly by the government e.g. healthcare via NHS.

Information provision – government provides information to people and companies to change their behaviour e.g. anti-smoking campaign.

3.1.6.2 EXTERNALITIES

Production externalities – arise from production of goods and services.

Consumption externalities – arise from consumption of goods and services

3.1.6.2 EXTERNALITIES -

Policies to correct for consumption externalities:

Indirect taxes upon products e.g. tax on fuel, tax on cigarettes. These aim to increase costs and therefore prices to reduce consumption and pay for damage caused by consumption.

Subsidies for products to reduce producer costs and therefore prices. These aim to reduce costs and therefore prices to increase consumption and gain benefits for society from consumption. Example – subsidies for green power generation.

Laws and regulations restrict/prevent consumption to reduce negative impacts e.g. age limits for alcohol, bans on hard drugs.

Government information campaigns information given reduces consumption (negative externalities) or increases consumption (positive externalities). Examples – healthy eating campaigns, anti smoking campaigns.

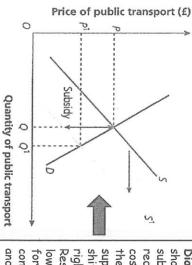


Figure 3.8.3 The effect of a subsidy on public transport

shows opposite and higher right. supply curve reduces Result = shifts to costs and subsidy impact. consumption consumers lower price therefore Diagram Tax has



Figure 3.8.5 The effect of state provision on education

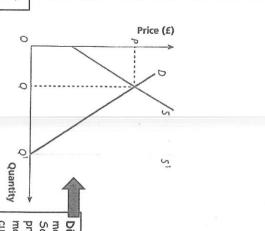


Diagram - example of market failure - education Schools would not be provided to all by free market. Market supply curve S. Government provides (S1) to all at cost of O.

3.1.6.2 EXTERNALITIES - Policies to correct for production externalities:

Subsidies for products to reduce producer costs and therefore prices. These aim to reduce costs and therefore prices to increase consumption and gain benefits for society from consumption. Example subsidies for makers of solar panels.

Laws and regulations restrict/prevent production to reduce negative impacts e.g. pollution laws

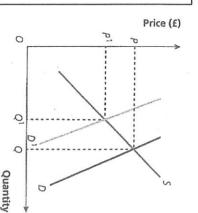


Figure 3.8.9 The effect of anti drinkdriving campaigns on alcoholic drinks sold in pubs

shows
information
reduces
demand and
therefore
demand curve
shifts to left.
Result = lower
price for
consumers but
lower
consumption.

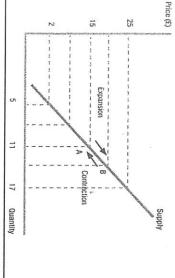
Diagram - example of
market failure - education
Schools would not be
provided to all by free

why the supply curve slopes upwards vary directly with price i.e. as price rises supply rises. This is that producers are willing (and able) to supply at a given price 3.1.3.2 SUPPLY - Supply - the quantity of a good or service Law of supply - for most products the quantity supplied will

Individual supply- the supply of a good/service by an individua

Market supply - the supply of a good/service by all producers

3.1.3.2 SUPPLY - Movement along the supply curve change in price and firms react to increase/protect profits. movements along the supply curve only happen when there is a



3.1.3.2 SUPPLY - Shifts of the supply curve - moving the supply curve to the right or left means something aside from price has changed supply for the product shown

3.1.3.2 SUPPLY

supply of beef will rise (law of supply). This will also increase example beef and leather. If the price of beef rises the Joint supply - some goods are by-products of others, for though the price hasn't changed. the supply of leather (supply curve shift to the right) even

the supply curve for potatoes to the right. planting potatoes or carrots. If the price of carrots falls more Competitive supply - some goods are produced using the same farmers will plant potatoes instead of carrots. factors of production, for example has to choose between This will shift

> curve: Changes in the cost of production - if costs of inputs 3.1.3.2 SUPPLY - Changes that cause shifts of the supply will supply more at any price level. The supply curve shifts to the (raw materials/labour) decrease then firms have lower costs and

The supply curve shifts to the right. makes costs lower then firms will supply more at any price level Changes in technology - if new technology (new machines etc)

will supply more at any price level. The supply curve shifts to the Changes in taxes - if taxes are lower costs are lower so firms

government to encourage production. An increase in subsidies Changes in subsidies - subsidies are payments made to firms by

the weather is good. For example if the weather is good more means the supply curve shifts to the right. Weather - some products will be produced in higher quantities if

then more will be supplied at any price. The supply curve shifts Number of firms in an industry - if more firms enter a market crops will grow and the supply curve shifts to the right. to the right

competitive supply changes this will shift the supply curve. Prices of other goods - if the price of a product in joint or

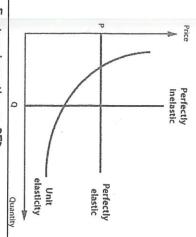
3.1.3.5 PED - how reactive quantity demanded is to changes in product is very sensitive to price changes. bigger than the % change in price i.e. the demand for the Elastic demand - when the % change in quantity demanded is price. PED is shown by the slope of the demand curve.

product is not very sensitive to price changes smaller than the % change in price i.e. the demand for the Inelastic demand - when the % change in quantity demanded is



nightclub you need to Q Remember - in a busy before you P.

number and multiplying by 100. amount) into the original dividing the change change is calculated by the % change in price. dividing the % change in PED is calculated by (original amount - new quantity demanded into



3.1.3.5 PED - Factors impacting on PED:

Substitutes - are there substitutes for the product or is it unique? Products easily substituted are price elastic.

Products that are a very low % of income are less sensitive to % of income - is the product very cheap or very expensive?

petrol) you will not be able to demand less if the price goes up Necessity/Luxury - if you cannot do without a product (e.g. changes in price i.e. if the price of a penny sweet changes you don't really care/notice.

Addiction/habit - addictive products (i.e. tobacco) are price A luxury can be cut back on so will be more price elastic. Time - products are more inelastic in the short term, it takes

getting a large decrease in quantity sold. This would mean an 3.1.3.5 PED - PED and revenue - if a producer knows that their product is price elastic they could decrease their price and increase in total revenue. If the producer knows that their product is price inelastic then they can increase price without time to change demand

PED less than 1 - the product is price inelastic, the closer to zero means more inelastic.

receive a larger increase in quantity demanded. This could also

mean an increase in total revenue

PED more than 1 - the product is price elastic.

result in the same % change in quantity demanded PED is 1 - the product is unitary price elastic, changes in price

change will change demand PED is 0 - the product is perfectly price inelastic, i.e. no price

is very sensitive to price changes. Elastic supply - when the % change in quantity supplied is bigger than the % change in price i.e. the supply of the product price. PES is shown by the slope of the supply curve. of Supply - how reactive quantity supplied is to changes in 3.1.3.6 - PRICE ELASTICITY OF SUPPLY - Price Elasticity

product is not very sensitive to price changes smaller than the % change in price i.e. the supply of the Inelastic supply - when the % change in quantity supplied is

% change in quantity supplied

% change in the price

3.1.3.6 - PRICE ELASTICITY OF SUPPLY

obtained by producers quickly? If the product or the raw Availability of stock - can more of the product be Factors impacting on PES materials needed are abundant the product will be price

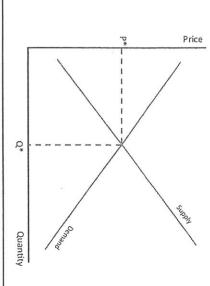
production quickly supply is elastic. investment in machines/people? If they can increase capacity? Can they increase supply without large Spare production capacity - are producing firms at full

capital? If so, the product will be more price elastic. different techniques? Switching between labour and Time - products are more inelastic in the short term, it Is production flexible? - an firms up production using takes time to change supply.

3.1.3.6 - PRICE ELASTICITY OF SUPPLY

closer to zero means more inelastic. PES less than 1 - the product is price inelastic, the

price change will change supply. PES is 0 - the product is perfectly price inelastic, i.e. no price result in the same % change in quantity supplied. PES is 1 - the product is unitary price elastic, changes in PES more than 1 - the product is price elastic.



3.1.3.3 MARKET EQUILIBRIUM - where the supply and demand curves meet is the equilibrium price and quantity in a market.

3.1.4.1 - REVENUE & PROFIT

Productivity - output per unit of input (usually per worker). Profit = total revenue - total costs of production

Business Objectives:

Profit maximisation - businesses seeking to gain as much profit as

Sales growth - maximise number of units sold

Social enterprise - a business that has a social objective - to do firm of the total market that exists for good or service. Increase market share - increase the percentage sold to by a

3.1.4.2 - PRODUCTIVITY - Improving productivity -

New technology

Train workers

Improve worker morale (nicer conditions)

More effective managers

3.1.4.1 - REVENUE & PROFIT

Competition -

and maintain/increase prices Businesses are motivated by profits - seek ways to lower costs

How do firms compete?

Price = offers, discounts.

Non-price = quality, advertising, loyalty rewards

3.1.3.3 MARKET EQUILIBRIUM

Total revenue on S & D diagram -

on a supply and demand curve. Total Revenue = Sales Volume x Price. This can be calculated and also shown

3.1.4.1 - REVENUE & PROFIT

Total cost - all firm's costs added

Total revenue - all income of firm (sales)

Average cost - cost of producing a unit (TC/Q)

Average revenue - revenue from each unit (TR/Q)

Variable cost - cost that changes with output level e.g. cost of raw material. Fixed cost - cost that does not change with output level e.g. rent.

3.1.4.1 - REVENUE & PROFIT - Ethics (doing the 'right' thing) - Businesses paying taxes, equality of pay for staff,

reduction of environmental impact, no exploitation of workers

Purchasing economies - buying materials in bulk (get discount) business can gain by being bigger (reduces average cost). 3.1.4.3 - ECONOMIES OF SCALE - cost advantages a products/countries sold to. Means less business risk Risk bearing economies - can increase range of Managerial economies - employ more/better managers market to raise money Financial economies - getting lower % on loans/access to stock Marketing economies - buying more effective ads (TV etc.) Technical economies - buying bigger, more advanced machines

3.1.4.3 - ECONOMIES OF SCALE

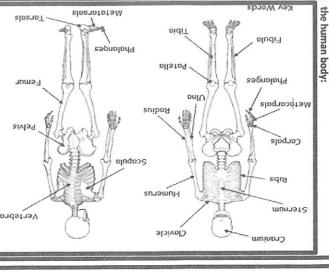
Diseconomies of scale - cost disadvantages a business can bear by being bigger (increases average cost). Types include: Morale - workers feel less important so work less hard Co-ordination/control - more departments/competing aims Communication - more people = more confusion/delay

sellers or buyers, barriers to entry, differentiated products, super 3.1.5.1 MARKET STRUCTURE - Non-competitive market - few market. NB - less competition = less/zero motivation to reduce Oligopoly - a small number of firms control the majority of the profits. Monopoly - a sole producer or seller ot good or service.

Subject: GCSE PE- 1.1.a

know the name and location of the following bones in

The structure and function of the skeletal system



Understand and be able to apply examples of how the skeleton provides or allows:

- support gives shape and support
- posture shape and support allows for posture
- protection- protects internal organs such as heart, lungs spinal cord and brain. Cranium protects brain.
- movement- provides areas for muscle attachment
- blood cell production- produces red and white blood cells
- storage of minerals- such as phosphorus, calcium, potassium and iron etc.

Know the definition of a synovial joint- A Synovial Joint is a freely movable joint in which the bones surfaces are covered by cartilage, called Articular Cartilage, and connected by a fibrous connective tissue capsule lined with Synovial Fluid

Know the following hinge joints

- knee articulating bones femur, tibia
- elbow articulating bones humerus, radius, ulna

Articulating bones are the bones that move within a joint.

Hinge joints allows movement in one plane only, just like a door hinge moves (uniaxial). An example of an activity that uses the knee joint is sprinting- example for elbow joint- bicep curl.

Know the following ball and socket joints:

- shoulder articulating bones humerus, scapula
- hip articulating bones pelvis, femur

Ball and socket joints allow a wide range of movement and occurs when a round head of a bone fits into a cup shaped depression. An example of a physical activity that uses the shoulder joint- Javelin. Example for hip joint- sit-up training exercise.

know the types of movement at hinge joints and be able to apply them to examples from physical activity/sport:

 flexion - is a decrease in the angle around a joint.
 When a badminton player prepares to hit a overhead clear, the arm shows flexion at the elbow



 extension- is when the angle of the bones that are moving (articulating bones) is increased. When making a basketball set shot the bent arm moves to a straight arm as you release the ball.



know the types of movement at ball and socket joints and be able to apply them to examples from physical activity/sport:

adduction, extension or flexion and rotation. Example

· circumduction- is a combination of abduction,

in sport- a gymnast on the beam takes her back leg back off the beam and moves it out and round to place

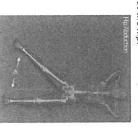
her foot ahead of her front foot

- flexion is a decrease in the angle around a joint
- extension is when the angle of the bones that are moving (articulating bones) is increased.
- rotation is when the bone turns about its longitudinal axis within the joint. Example in sporttennis player uses external rotation at the shoulder joint during the backswing of a serve.



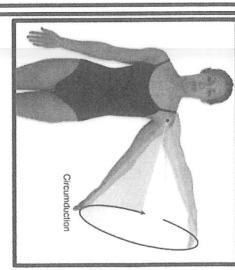


 abduction- is the movement of the body away from the middle or midline of the body. Example in sportgymnast with their leg lifted to the side shows abduction at the hip.



 adduction- is the opposite of abduction and is the movement towards the midline of the body. Example in sport- a rugby player tackling another player will hold onto the player by adducting their arms at the shoulder joint as they tackle





know the roles of:

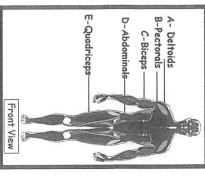
- ligament found between bones and attach bone to bone. Function- the role of the ligaments is to help join bones together and keep the joints stable during movement.
- cartilage-soft connective tissue. Function- the role of cartilage is to reduce friction and act as a shock absorber at the joint
- Basic types of cartilage
- -Yellow elastic cartilage
- -Hyaline or blue articular cartilage
- White fibro-cartilage.
- tendons- muscles are attached to bones via tendons.
 These are strong and can be a little flexible. Functionas well as their attachment role, they help to transmit the power needed to move bones. When a muscle shortens, it pulls on the tendons: this pulls on the tendons: this pulls on the are attached and causes movement.

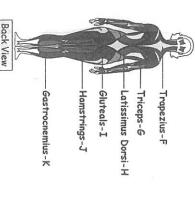
Subject: GCSE PE- 1.1.b

The structure and function of the muscular system

Location of major muscle groups

groups in the human body and be able to apply their use to examples from physical activity/sport: Know the name and location of the following muscle





Functi

flexion (moving the arms forwards in front towards the body); Shoulder horizontal arms backwards at shoulder level) Adduction of the shoulder (moving the arm

Pectorals

Trapezius

Flexion of the elbow (bending the arm)

Biceps

	c	۵	
		3	

extend and abduct the shoulder joint) muscle has different parts which flex, Lifting the arm at the shoulder (the deltoic

Shoulder horizontal extension (moving the

Quadriceps

Kicking a ball (execution and

recovery phase)

Deltoid

Extension of the elbow (straightening the arm)

Triceps

Abdominals Latissimus Flexion of the spine (sitting upwords)

down towords the mid-line of the body) Adduction of the shoulder (moving the arm

Hip extension (moving the femur

Gluteals

dorsi

(eg) Extension of the knee (stroightening the

Quadriceps

Hamstrings Flexion of the knee (bending the leg)

Sastrocnemius toes downwards) Plantar flexion of the ankle (pointing the

Example in sport

volleyball; upward arm swing when trampolining Lifting the arms to block in

Deltoid

throw or badminton smash

netball (execution phase) Shooting and chest passing in

Triceps

Biceps

1307 during preparation, right shoulder Hitting in hockey – left shoulder

atissimus

dorsi

Abdominats

Performing a sit up or a forward

Pulling leg back at the hip before

Gluteals

phase of a rebound jump in weights machine; preparation Performing a hamstring curl on a

Hamstrings

Gastrocnemius in netball or pointing the toes during a gymnastic or dance move Standing on tiptoe to mark a shot

rugby player making a tackle Upwards phase of a press up:

Pectorals

Trapezius

Preparation phase of an overarm

backscratch' position during Drawing a bow in archery:

during execution and recovery

The roles of muscle in movement

examples from physical activity/sport. know the definitions and roles of the following and be able to apply them to

The following groups of muscles are

antagonistic pairs:

Antagonistic Muscle Pairs

movement. Also known as the prime mover produces or controls the desired joint agonist- this is the working muscle that

agonist. action of the opposing muscle, called the caused by the agonist is countered by the control is maintained. The movement coordinated muscles work in pairs so that antagonist- for movement to be

stabilise the origin of the biceps others to stabilise the origin of the prime fixator- this is a muscle that works with mover e.g the trapezius contracts to

Pairs of muscles-

enables the body to move with stability and antagonistic pairs. This type of action lengthen or remain the same length when these movements, muscles either shorten be made by the human body. To produce that work together like this are called muscle contracts, the other relaxes. Muscles There is a vast range of movements that can they contract. Muscles work in pairs: as one

Golf swing; breaststroke arms

Jumping to block in volleyball; tuck jump in

Sport example

Chest pass in netball; badminton smash

trampolining

Shoulder

biotlab Latissimus dorsi;

Knee

Elbow

Homstrings;

Biceps; triceps

dnaquicebs

Flexion; extension produced Movements

Flexion; extension

obduction

Adduction;

Antagonistic pair

Juliot

Lever Systems

physical activity and sport: Know the three classes of lever and their use in

is a rigid structure, a length of bone that turns about a pivot- the joint. Levers are used to make a small Bones and muscles act together to form levers. A lever mechanical advantage. amount of force into a bigger force- this is gaining a

Four parts to a lever:

Lever arm- bones acts as lever arms

Pivot-Joints act as a pivot

Effort- muscles provide the effort to move loads

parts that are moved or forces needed to lif, push or pull things. Load- load forces are often the weight of the body





SECOND CLASS

THIRD CLASS



the lever arm. Example- at the neck- heading the ball. located between the effort force and the load force on First class lever- the fulcrum (sometimes called pivot) is

Second class lever- this is when the load or resistance is your toes or plantar flex at the ankle. between the fulcrums and the effort. Example-raising

leaping up to catch a basketball. the knee joint causing flexion and extension, such as fulcrum and the load or resistance. Example- at the knee the action of the hamstrings and the quadriceps at Third class lever- this is when the effort is between the

> the 'mechanical advantage'. relative efficiency of each of the lever systems is called Know the definition of mechanical advantage- The

Subject: GCSE PE 1.1c

advantage. This means that they allow you to move a Some levers (first and second class) provide mechanical large output load with a smaller effort

MECHANICAL ADVANTAGE **EFFORT** [OAD

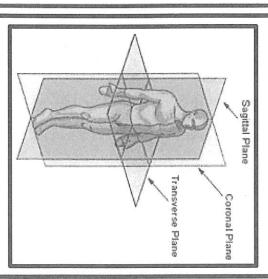
Where the load = 500N and the effort=100N

The mechanical advantage would be

500N divided by 100N = 5

Planes of movement and axes of rotation

body and their application to physical activity and sport: Know the location of the planes of movement in the

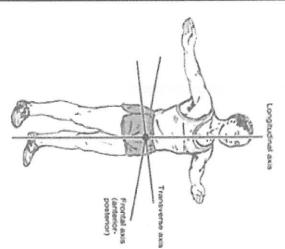


Frontal Plane- Runs vertically and divides the body in adduction of the legs at the hip joint-jumping jack abduction and adduction. Example- abduction and sections between fron (anterior) and back (posterior) Movements in this plane are sideways movements of

action (circumduction) when bowling in cricket with body into upper (superior) and lower (inferior) sections Transverse Plane- Runs horizontally and divides the rotation at the shoulder joint. Movements in this plane are rotational. Example- arm

down movements of flexion and extension. Exampleleg action in running takes place in the saggital plane right sides. Movements in this plane are the up and Sagittal Plane- Splits the body vertically into left and

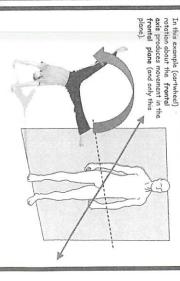
and their application to physical activity and sport: Know the location of the axes of rotation in the body



There are 3 axes of rotation:

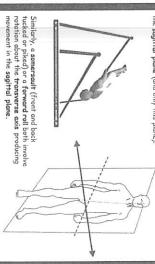
- -Frontal axis
- -Transverse axis
- Longitudinal axis

Rotation About The Frontal Axis



Rotation About The Transverse Axis (1)

In this example rotation about the transverse axis produces movement in the sagittal plane (and only this plane).



Rotation About The Longitudinal Axis (1)

In this example the ballet dancer rotates about the longitudinal axis producing movement in the transverse plane.



Similarly, an ice skater in a spin involves rotation about the longitudinal axis which produces movement in the transverse plane

Subject: GCSE PE 1.1 d

The cardiovascular and respiratory systems

The structure and function of the cardiovascular system.

Know the double circulatory system (systemic and pulmonary)-

The heart operates a <u>double circulatory system</u> in which blood flows through the heart twice.

1. Pulmonary circulation

1. Pulmonary circulation

i.e. blood flow between the heart and lungs.

2. Systemic circulation

i.e. movement of blood from the heart through the rest of the body (excluding the lungs), then back to the heart.

Know the different types of blood vessels:

-artery- transport the oxygenated blood away from the left side of the heart.

containing pxygenated bloca to be pumped around the body.

A lower chamber

VENTRICLE

oxygenated blood

уи пррег съзгарет

MUINIA

LEFT

Buinjaga.

-capillaries-are small blood vessels that carry blood to and from the body's cells -vein- transport blood from all over the body

back to the heart and lungs for re-oxygenation.

Know the definitions of-

from the heart to the lungs.

Pulmonary artery

blood to the heart.

deoxygenated

Returns

Vena Cava

Carries deoxygenaled blood

Main blood vessels

-Heart rate- The heart contracts and relaxes in a rhythm, which produces a heartbeat (started by an electrical impulse from the Sino-Atrial (SA) Node). Measurement of the Heart Rate = Beats per Minute (HR=Bpm). Average resting HR = 75bpm

-Stroke Volume- The volume of blood pumped out of the heart by each ventricle during one contraction. Measurement of the Stroke Volume = milliliters per beat (ml per beat)

-Cardiac output- The amount of blood ejected from the heart (Left Ventricle) in one minute.

Measurement of the Cardiac Output = litres/min

pressure from the body

ubid is bedmind at

Oxygenated blood

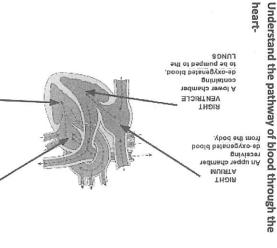
the heart of

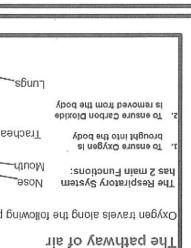
Returns

BJ10A

oxygenated blood

niev Yrsnomlu9





Oxygen travels along the following pathway from the mouth/nose to the alveoli.

Know the role of respiratory muscles in breathing-

-Diaphragm

-Intercostal muscles

Know the role of red blood cells-carry oxygen from the lungs to the muscles & Removes CO2 from muscles to lungs.

When breathing in (inspiration):

The intercostal muscles contract, lifting the ribs upwards and outwards causing the chest to

The structure and function of the respiratory system.

Understand the pathway of air through the respiratory system-

out the floor of the rib cage.

The diaphragm contracts. It pulls down and flattens

When breathing out (expiration)

into the lungs through the nose and mouth.

The pressure inside our lungs falls as they expand. The higher pressure of air outside means air is now sucked The lungs increase in size as the chest expands.

The intercostal muscles relax. The ribs move downwards and inwards under their own weight. The chest gets smaller.

The diaphragm relaxes. It is pushed back into a domed position by the organs underneath it.

The lungs decrease in size as the chest gets smaller.
They are squeezed by the ribs and diaphragm.

The pressure inside the lungs increases as they get smaller. The air pressure outside is now lower than in our lungs. Air is forced out of the lungs through the nose and mouth.

Know the definitions of aerobic exercise and anaerobic exercise and be able to apply practical examples in relation to intensity and duration.

-Aerobic Exercise Working <u>WITH</u> Oxygen. When the demand for oxygen does not overwhelm the body and we are able to supply the working muscles with the oxygen needed to release the required energy for the exercise.

NOOVIA

Bronchioles

Bronchi

-Anaerobic Exercise Working WITHOUT Oxygen.

Maximal Effort: When we work at this rate it is not possible to supply the muscles with oxygen they need to release energy for the exercise, so we work without oxygen anaerobically and repay the OXYGEN DEBT once the exercise is complete (Lactic Acid)

Lesson De Al. Su Th Ar A	Lesson Lis	Lesson Will ho cc Will Be
Also known as 'VR', virtual reality immerses its user in a fictional, fabricated environment. This enables them to suspend belief in the real existence of this environment. This is achieved primarily through the sensory manipulation of two senses: sight and sound. Describe immersive experience An immersive experience is generally achieved through head-mounted hardware: a headset. A headset tracks the movements (body and head tracking) of the user to continue the illusion of reality.	 List the core features of interactive video. Data inputs. Hotspots. 360 views. Branches. Time triggers. Overlays. 	 What is interactive video? An interactive video gives the viewer the ability to interact with the video content itself through a variety of tools. Users can click, drag, scroll, hover, gesture and complete other digital actions to interact with the video's content, similar to the way they'd interact with web content. Why is a strong narrative plot important to the success of an interactive video? Because video content is something that people engage with regularly and is popular, it does not mean that it can be 'lazy' content. Video still needs to tell some kind of story. This means it needs to contain (no matter how loosely): A beginning. An end. Explain some of the benefits of interactive video for a business / organisation. Interactive video brings an immersive approach to your business by directly involving employees. Immersive content has been proven to increase user engagement.
		Immersive experience An "immersive experience" pulls a person into an augmented reality, enhancing everyday life (by making it more engaging or satisfying) via technology. Augmented reality Augmented reality is an interactive experience that combines the real world and computer-generated content.

17	AR, or, augmented reality, changes how a user sees the world around them by overlaying digital elements on top of their environment. Which technologies are used to facilitate augmented reality. Modern mobile augmented-reality systems use one or more of the following motion tracking technologies: digital cameras and/or other optical sensors, accelerometers, GPS, gyroscopes, solid state compasses, radio-frequency identification (RFID).
Lesson 18	Identify interactive media types and their features. The interactive media types are: Interactive video (or television)
	o Run o Move towards the light o Faint
	 Website (landing page) Depending on their selection, the audience will be taken to a website landing page that looks like a newspaper article and that explains that aliens have attacked the planet and are looking for someone specifically.
	A blurry image was provided by the aliens, no one can quite make it out. The viewer will scan this image with their smartphone and a video will appear on their phone saying: "It is you we are looking for we demand"