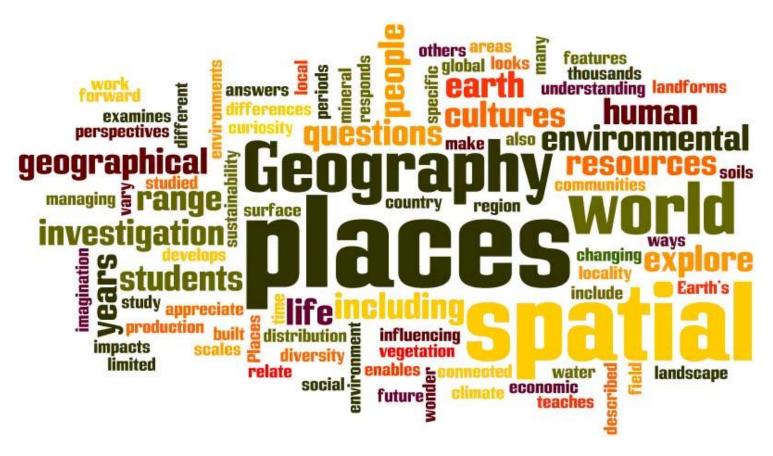
GCSE Edexcel Geography B Revision Workbook





16 Chaucer Road Forest Gate London, E7 9N

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Breakdown of Assessment Objectives and Exam Papers

This is a breakdown to help you understand your GCSE Geography better.

Here you will identify total marks, percentages and time for each exam paper.

Geography GCSE 9-1 Edexcel B Investigating Geographical Issues

In the summer of this year you will sit 3 papers for your GCSE Geography.

Paper 1: Global Geographical Issues (37.5% of GCSE) 1 hour 30 minutes – 94 marks

- Tooic 1: Hazardous Earth
- Topic 2: Development Dynamics
- · Topic 3: Challenges of an urbanising world

Paper 2: UK Geographical Issues (37.5%)

1 hour 30 minutes - 94 marks

- Topic 4: UK physical landscape (Coasts/rivers)
- Topic 5: UK human landscape
- Topic 6: Geographical investigation (human and physical fieldwork)
- .

Paper 3: People and Environmental Issues (Decision making paper)

1 hour 30 minutes - 64 marks

- Topic 7: People and the biosphere
- Topic 8: Forests under threat
- Topic 9: Consuming energy resources

You will be assessed against 4 objectives. In brief these include:

AO1: Knowledge (20-30% of GCSE)

Recall, select and demonstrate knowledge of:

- Locations.
- Scale

AO2: Understanding (20-30% of GCSE)

Show understanding of:

- · Changes over time in places and processes
- Interrelationships between people and environment
- · Interconnections between places and different contexts

AO3: Skills (20-30% of GCSE)

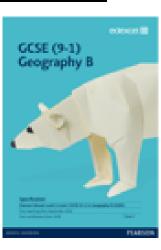
Know about, select, adapt and use a variety of skills, techniques and technologies:

- · Observe, collect, organise, and present data
- · Investigate, analyse, and interpret data
- Explain and communicate geographical evidence, ideas and questions

AO4: Application (30-40% of GCSE)

Apply geographical knowledge, understanding and skills in relation to:

- Questions and issues about familiar places (e.g. places studied within the GCSE course)
- Questions and issues about unfamiliar places (e.g. places not specified in the GCSE course)
- · Questions and issues arising directly from real fieldwork contexts



Command word	Typical no. of marks	What the command word means	Example of a question
Identify/State/ Name	1	Find (e.g. on a photo), or give a simple word or statement	Identify the landform in the photo
Define	1	Give a clear meaning	Define the term 'fertility rate'
Calculate	1 or 2	Work out	Calculate the mean depth of the river shown in Figure 2
Label	1 or 2	Print the name of, or write, on a map or diagram	Label two features of the cliff in Figure 4
Draw	1, 2 or 3	As in sketch or draw a line	Draw a line to complete the graph in Figure 3
Compare	2 or 4	Identify similarities or differences	(referring to a graph) Compare the rate of population growth in city X with city Y.
Describe	2 or 4	Say what something is like; identify trends (e.g. on a graph)	Describe the trend shown in Figure 1
Explain	2, 4, 6 or even 9	Give reasons why something happens	Using examples, explain the rapid growth of a mega-city you have studied
Suggest	2 or 4	In an unfamiliar situation (e.g. a photo or graph), explain how or why something might occur, with a reason	Suggest reasons for the increase shown in the graph
Examine	6 or 9	Give reasons for, but also begin to judge which of the reasons is more important	Examine the reasons for the growth of one mega-city you have studied
To what extent	6 or 9	Show how far you agree or disagree with a statement	To what extent do megacities offer a better lifestyle for migrants than the rural areas they have left?
Assess	6 or 9	Weigh up which is most/least important	Assess the need for coastal management along a stretch of coast you have studied
Evaluate	6 or 9	Make judgements about which is most or least effective	Evaluate the methods used in collecting data in your fieldwork
Discuss	6 or 9	Give an overview of a situation or a topic where there are different approaches or viewpoints	Discuss the ways in which climate change could be managed
Justify	6 or 9	Give reasons why you support a particular decision or opinion	Justify the reasons for your choice

Understanding 'command words'

Most people miss out on marks because they did not understand what the question was asking them to do.

Make sure you know what your command words mean. These are the words that tell you what to do.

What skills will I be assessed on?

Mathematics and Statistics Skills

Familiarise yourself with each skill. Identify your strengths and weaknesses and focus on improving those with exam practice.

These skills are taken from the document Geography GCSE subject content published by the Department for Education (DfE) April 2014. These skills may be assessed across any of the examined components. Some mathematics and statistics skills are specific to particular subject content; these are indicated in the 'integrated skills' sections within the topics throughout the specification.

Cartographic skills:

- use and understand gradient, contour and spot height on OS maps and other isoline maps
- interpret cross sections and transects
- use and understand coordinates, scale and distance
- describe and interpret geo-spatial data presented in a GIS framework

Graphical skills:

- select and construct appropriate graphs and charts to present data, using appropriate scales and including bar charts, pie charts, pictograms, line charts, histograms with equal class intervals
- interpret and extract information from different types of graphs and charts including any of the above and others relevant to the topic
- interpret population pyramids, choropleth maps and flow-line maps

Numerical skills:

- demonstrate an understanding of number, area and scale and the quantitative relationships between units
- design fieldwork data collection sheets and collect data with an understanding of accuracy, sample size and procedures, control groups and reliability
- understand and correctly use proportion and ratio, magnitude and frequency
- draw informed conclusions from numerical data

Statistical skills:

- use appropriate measures of central tendency, spread and cumulative frequency (median, mean, range, quartiles and inter-quartile range, mode and modal class)
- calculate percentage increase or decrease and understand the use of percentiles
- describe relationships in bivariate data: sketch trend lines through scatter plots; draw estimated lines of best fit; make predictions; interpolate and extrapolate trends
- be able to identify weaknesses in selective statistical presentation of data

What skills will I be assessed on?

Geographical skills

Familiarise yourself with each skill. Identify your strengths and weaknesses and focus on improving those with exam practice.

Students are required to develop a range of geographical skills throughout their course of study. These skills may be assessed across any of the examined components. The full list of geographical skills is given below. Some geographical skills are specific to particular subject content; these are indicated in the 'integrated skills' sections within the topics throughout the specification.

Atlas and map skills:

- recognise and describe distributions and patterns of both human and physical features at a range of scales using a variety of maps and atlases
- draw, label, annotate, understand and interpret sketch maps
- recognise and describe patterns of vegetation, land use and communications infrastructure, as well as other patterns of human and physical landscapes
- describe and identify the site, situation and shape of settlements

Graphical skills:

- label and annotate and interpret different diagrams, maps, graphs, sketches and photographs
- use and interpret aerial, oblique, ground and satellite photographs from a range of different landscapes
- use maps in association with photographs and sketches and understand links to directions

Data and information research skills:

• use online census sources to obtain population and local geo-demographic information

Investigative skills:

- identify questions or issues for investigation, develop a hypothesis and/or key questions
- consider appropriate sampling procedures (systematic vs random vs stratified) and sample size
- consider health and safety and undertake risk assessment
- select data collection methods and equipment to ensure accuracy and reliability, develop recording sheets for measurements and observation
- use of ICT to manage, collate, process and present information, use of hand-drawn graphical skills to present information in a suitable way
- write descriptively, analytically and critically about findings
- develop extended written arguments, drawing well evidenced and informed conclusions about geographical questions and issues.

Geography GCSE 9-1 Edexcel B Investigating Geographical Issues



How to revise Geography

1. Get organised

Make sure you know what topics you are being tested on in which paper.
Use your 'topic checklists' to organise your thoughts and revision material



3. Revision cards

Condense your notes and information onto revision cards. Use different coloured cards to represent each topic or a different case study.

5. Use Seneca Classroom

Use our Seneca Classroom to retrieve revision notes for more information. Retrieve your class code from your tutor.

7. Memorise!

Now you've condensed your class notes you need to memorise them. Good memorisation, in my experience comes down to two things:

- Repetition
- Using the information in different formats

I'd advise you to do a combination of the following:

- Read index cards out loud, cover and test yourself.
- Get other people to test you.
- Act it out.
- Make up songs or rhymes
- Whatever else works for you...

2. Make sure you understand

The first step in remembering anything is understanding it. These tips will help you with this:

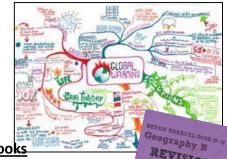
Make sure you've seen a map of the place. In this day and age this is easy with google maps, google earth and google streetview. All of these things can help you understand both the 2-D and 3-D landscape of the case study.

Find newspaper articles and pictures to give you some background and also help you to visual the place

Watch videos if they exist. For some case studies there are amazing clips of films (Kibera, the Nairobi shanty town at the beginning of The Constant Gardner springs to mind). For others there will be great video clips on YouTube to help you. If you can, visit the place. Nothing is as powerful as this in fully understanding a place.

4. Mind maps

Organise your case studies or topic notes onto mind maps. Aim for one topic per A3 page



6. Revision books

Purchase a revision book, specifically the 'Revise Edexcel GCSE (9-1) Geography B Revision Guide' published by Pearson around £6. ISBN 9781292133782

8. Exam command words

Understand the command words used in exams. What is the difference between a 'describe' and 'explain' question?

9. Past papers

Make sure you're exam ready by practising to apply your knowledge to past questions

10. Analysing mark schemes

Analysing the mark schemes to understand what the examiners are expecting you to do.

<u>Useful websites and links</u> <u>Edexcel GCSE Geography B</u>

Use this websites to help you with keywords, case studies and more!

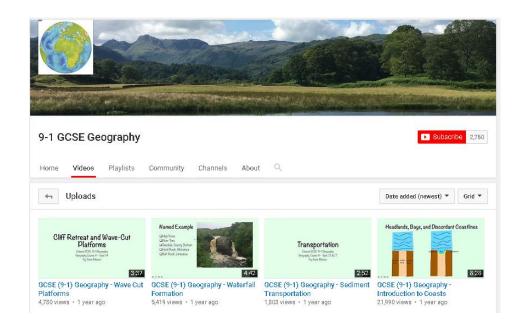
http://www.coolgeography.co.uk/

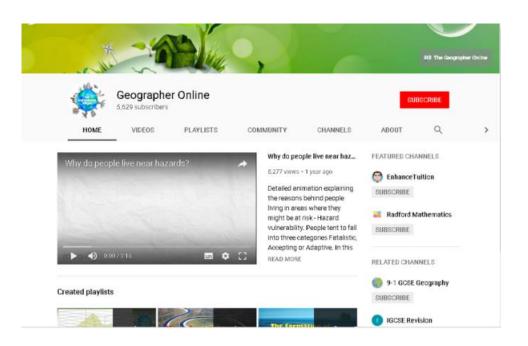
https://www.bbc.com/bitesize/subjects

http://www.gcsegeography.co.uk/people-and-the-planet/population-dynamics

www.pearsonschools.co.uk/revise

YouTube Channels: 9-1 GCSE Geography / Geographer Online





Quizlet

Edexcel Geography B - Restless Earth

Study online at quizlet.com/_o5c42

1. Asthenosphere	the upper part of the Earth's mantle, where the rocks are more fluid
•	
2. Collision plate boundary	a tectonic margin at which two continental plates come together
3. Conservative plate boundary	where two tectonic plates slide past each other
4. Constructive plate boundary	tectonic plate margin where rising magma adds new material to the diverging plates
5. Continental crust	the part of the crust dominated by less dense granitic rocks
6. Convection currents	circulating movements of magma in the mantle caused by heat from the core
7. Core	the central part of the Earth, consisting of a solid inner core and a more fluid outer core, and mostly composed of iron and nickel
8. Destructive plate boundary	tectonic plate margins where oceanic plate is subducted
9. Evacuation	the removal of people from an area, generally in attempt to avoid a threatened disaster (or escape from an actual one)
10. Long-term planning	planning that looks beyond immediate costs and benefits by exploring impacts in the future
10. Long-term planning 11. Magnitude	
	planning that looks beyond immediate costs and benefits by exploring impacts in the future
11. Magnitude	planning that looks beyond immediate costs and benefits by exploring impacts in the future the size of something
11. Magnitude 12. Oceanic Crust	planning that looks beyond immediate costs and benefits by exploring impacts in the future the size of something the part of the crust dominated by denser basaltic rocks
11. Magnitude 12. Oceanic Crust 13. Plate margin	planning that looks beyond immediate costs and benefits by exploring impacts in the future the size of something the part of the crust dominated by denser basaltic rocks the boundary between two tectonic plates
11. Magnitude 12. Oceanic Crust 13. Plate margin 14. Prediction	planning that looks beyond immediate costs and benefits by exploring impacts in the future the size of something the part of the crust dominated by denser basaltic rocks the boundary between two tectonic plates forecasting future changes
11. Magnitude 12. Oceanic Crust 13. Plate margin 14. Prediction 15. Preparation	planning that looks beyond immediate costs and benefits by exploring impacts in the future the size of something the part of the crust dominated by denser basaltic rocks the boundary between two tectonic plates forecasting future changes the process of of getting ready for an event
11. Magnitude 12. Oceanic Crust 13. Plate margin 14. Prediction 15. Preparation 16. Response 17. Short-term emergency	planning that looks beyond immediate costs and benefits by exploring impacts in the future the size of something the part of the crust dominated by denser basaltic rocks the boundary between two tectonic plates forecasting future changes the process of of getting ready for an event the way in which people react to a situation help and aid provided to an area to prevent immediate loss of life because of shortages of basics, such as

For more Topical Keywords go to:

https://www.gcsegeography.co.uk/keywords

www.gcsegeography.co.uk

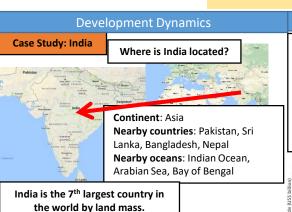
The Challenges of	an Ui	ban W	orld (Case S	tudies
-------------------	-------	-------	--------	--------	--------

Topic	Case Study I	Case Study 2
LEDC City	Mumbai, India	Mexico City, Mexico
Topic LEDC City Challenges	 Mumbai, India Housing 54% of people live in slums The largest slum, Dharavi, has 800,000 people living in it On average, people in Mumbai only have 4.5m² of living space Transport Only 2% of people own a car 55% of people walk to work Despite this, Mumbai is still one of the most congested cities on earth 3,000 people die crossing railway tracks or falling off packed commuter trains each year Water supply & pollution Mumbai suffers from severe water shortages 650 million litres of water is lost every day due to old, leaking pipes Some slum dwellers spend up to 20% of their money on water Informal Economy Employs 68% of Mumbai's workforce Large majority of people working in the informal sector come from slums across the city 	 Case Study 2 Mexico City, Mexico Air Pollution In 1992, the UN described Mexico City as the most polluted city on the planet In 1998, the UN then named Mexico City as 'the most dangerous city in the world for young children' The air pollution caused over 1,000 deaths and 35,000 hospital admissions in 1998 The main sources of air pollution were from vehicle exhausts, emissions from factories and power stations Water Pollution Growing population has led to over-exploitation of the underground water supplies Mexico city pumps water up from the 514 underground aquifers
		Only 9,000 tonnes can be removed by the current waste collection system

For more case study examples go to:

https://www.gcsegeography.co.uk/case-studies

On the next few pages you will find topic summaries. Use these pages to help support you complete your revision worksheets.



Think like a geographer: <u>How does India's location</u> promote economic development?

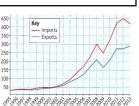
- What other major economies are nearby? China! Now a major economy and superpower. India and China have existing political tensions. India is a former British colony.
- Is India landlocked? Which countries are easily accessed? India is not landlocked, meaning it can easily transport goods internationally by boat. India aims to become a major transport hub within south east Asia.
- Is India a large or small country? What about its population? India is a large country, with good access to resources such as coal. India's population is rapidly growing, totals 1.324 billion (2016). This makes India the second most populous country in the world.

Development Indicator	Social, Economic or Environmental	Value	
HDI (Human Development Index)	Social, Economic and Environmental	0.621 (131 st in the world)	
Life Expectancy	Social	68 years	
Adult Literacy	Social	74%	
Infant Mortality	Social	34 per 1000 birth	
GDP (Gross domestic Product per capita)	Economic	\$1,709	



India's Economic Development India has undergone rapid development in recent

development in recent
decades which has
resulted in India now
being identified as an
emerging country, rather
than a developing
country.



India's imports and exports have grown, as India buys and sells more products internationally. India's total imports have grown by almost 1500% since 1980.

d as as nore ally. S.S. Designation of the state of the s

Goods sold to

countries

Import:

bought

countries

The types

roducts

nakes and

The general trend in

employment has been a

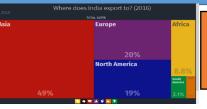
loss of primary

employment, with an

expansion of the services

India's development has been unequal. and has led to contrasting development levels. Compare the dark regions (higher GDP) to the lighter colours (lower GDP).

Who/What does India trade with?



China	South		rotal-și iesia		Switzerla	and	Germany	Delghors	United
	Korea								States
					4.39		3.3%		
	Japan	Malaysia	Iran	Qatar	Russia				5.9%
							Palent		
						e Marin			Warden.
United Arab Emirates	Hong Kong				Nigeria	Free		venezuela	my man
						10			
Saudi Arabia	Singapore				2.1%				
					1.5%			Australia	

	What does India exp	ort: (2016)	
Precious Metals	Chemical Products	Transportation Metals	
	13%		7.3%
	Mineral Products	Vegetable Products	Plastics and Foodstuffs Rubbers
Textiles	11%	5.5%	3.0% 2.3%
	Machines	Animal	1.1% (1.00)
14%	8.4%	3,7%	Shee and Class

Geopolitics

Definition: How are a countries world politics influenced by geographical factors.

What controls India's geopolitics?: It's history, geography, international context and domestic policies



Globally: India is a member of the G20. The G20 are the twenty most developed economies in the world. These countries meet every year, and discuss world trade issues.

India and Pakistan in 1947 was accompanied with riots and mass casualties. The effects of this are still felt today: The relationship between India and Pakistan is still far from healthy Both countries are nuclear armed.

In Asia: The partitioning of



Economic Development on Different Age and Gender Groups

Impact of Development

The Elderly (50+): Access to better healthcare, which may prolong their life. Do not possess necessary skills so may lag behind. Socially, changes to the Indian society may be difficult to adapt to.

Females: The BIGGEST winners: Emancipation of women = equal access to a high quality education and healthcare system, which enables them access to highly skilled jobs that are well paid.

Young adults: Access top universities, receiving a world class education = compete for the highest skilled and paid jobs = more equal

society.

Rate of change in female literacy rates (11.8%) greater than males (6.8%) between 2001-2011.

Weaknesses

Opportunities

SWOT Analysis

Strengths

Impact on the environment

<u>Environment:</u> The atmosphere (pollution), the green space, wildlife, rivers and water systems etc.

India is ranked as the 155th country out of 177 in a global ranking on environmental quality. This costs India around \$80 billion per year (5.7% of its total economy)

AVIVA AND THE STATE OF THE STA

Bangalore, India.

Advantages of Aviva

Bring much needed money

to the Indian economy,

creating 1000s of jobs.

Increase development

levels, investing in

infrastructure.

Aviva is the UKs largest insurance company

A large transnational

corporation (TNC), with

headquarters in the UK.

Aviva have call centres in

Perth (Australia), Norwich

(UK) and Sheffield (UK).

Why India?

Disadvantages of Aviva

A fifth of all call centre jobs

outsourced, weakening the

UK economy.

Retain profits, and pay tax in

the UK. This limits the

economic benefit to

Bangalore.

Wages much lower (India = £1,200, UK = £12,000)
The cost of operation is lower by up to 60%.
Improvements in education levels.

The rise of the call centre

✓ Fewer safety restrictions = longer hours

The effects Solid Waste Pollution:

Indian cities generate 100 million tonnes of waste each year.

 40% of urban waste in India is just simply not collected, and is allowed to rot on the streets.

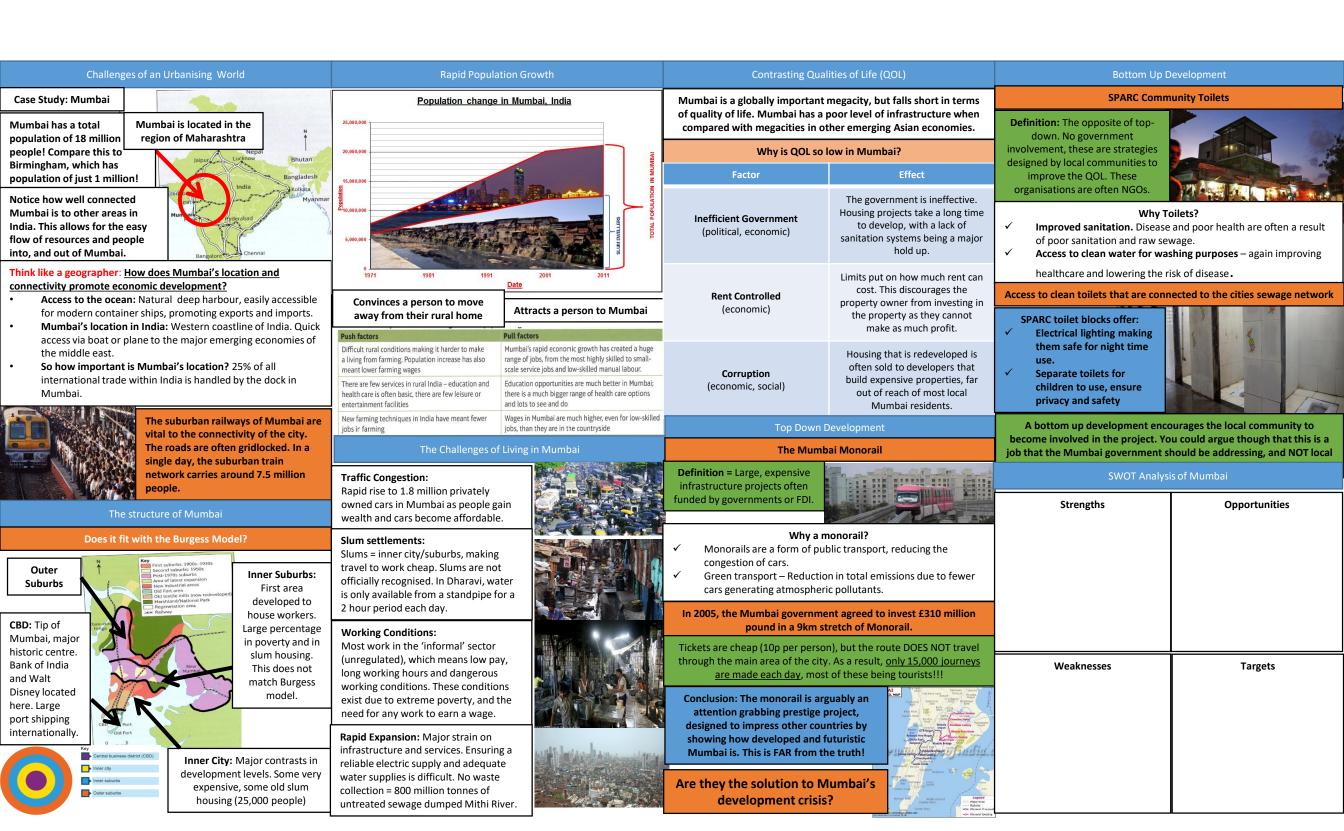
Water Pollution:

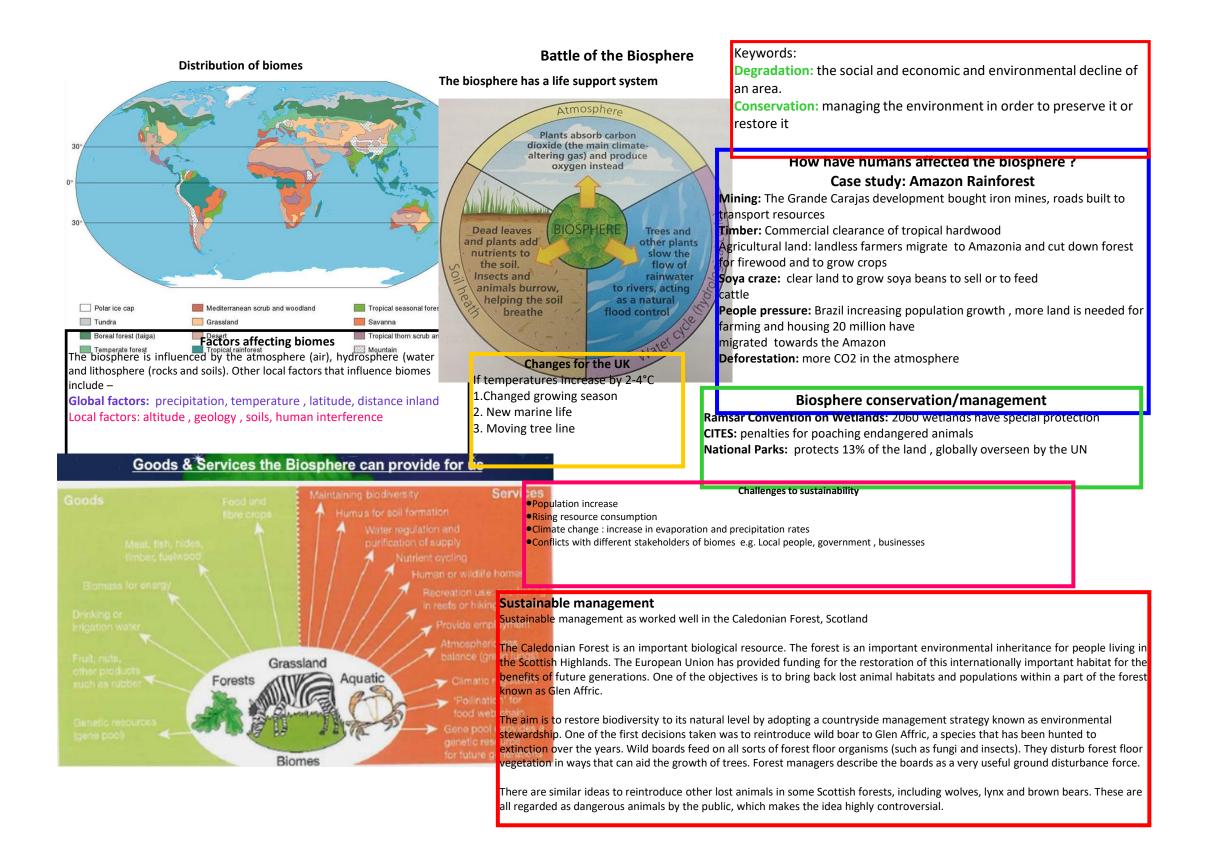
- India has the capacity the deal with just 1/6 of its sanitation produced.
- Over 100 Indian cities directly dump untreated sewage into the Ganges.

Air Pollution:

- Major issue in India, with wood burning and vehicle emissions behind the primary cause.
- Natural methods of fuel production (wood burning) constitutes 90% of rural energy, and 24% of urban energy. These biomass house burners are the leading cause of greenhouse gas emissions.

Threats





UK Urban change in the last 50 years

1. Economic

Deindustrialisation: closure of large manufacturing industries e.g. London Docklands

Growth of tertiary and quaternary industries: London Docklands 1980s

Wealth gap: widened leaving pockets of areas deprived many inner city and rural areas.

2. Political

National government polices 1980s Urban development Corporations, Enterprize zones e.g London Docklands

3. Social

Growth of leisure and recreational facilities Higher incomes and better transport-move to build housing, work, leisure facilities on ruralurban fringe

Counter urbanisation : people moving to rural areas

4.Demographic (population)

Population growth has meant more housing, services and businesses needed Internal migration— people moving from places with fewer jobs e.g. Remote highland areas to where there are more job opportunities

Changing Settlements in the **UK**

Too rural :

cut-off

Impact of housing demand in an urban area Case study: Leeds

- Redevelopment of the city centre , new space for offices and shops
- Good communications links: M62, M11, rail and Bradford Leeds airport
- An educated labour force
- Three universities (student accommodation needed)
- Its status as a core area for northern England
- The city centre has a financial, shopping and entertainment quarter

City centre 1920s-1930s 1950s-1960s post-war private and of detached semi-detached Outer Inner Urban Green CBD Inner city Suburbs fringe Belt Belt The Index of Multiple deprivation considers : Housing Jobs Education Income Services e.g shops

Changes in urban areas

Younger housing

Quality of life perceived to increase

The impacts of the housing demand

Economic	Social	Environmental
Rapid economic growth has led to investment	More young people: for careers and nightlife	Brownfield sites redeveloped on. Warehouses converted into living space close to the R.Aire
More businesses in new redevelopments in the city centre	Increase of students in areas such as (Headingly)	Rapid growth has put pressure on green spaces
'Barcelona of the North '	na of the North ' 19 th Cent homes have been converted into student flats	
1988-1995: Leeds Development Corporation spent £72M building new shops/businesses 1995-2010: £6.7B on construction schemes		

Contrasting rural areas : QUALITY of LIFE

Case studies

Canning Town Vs Richmond Upon Thames

Index of Multiple deprivation

Exam Question: Using named example**s, describe** how residential areas of a city vary (6)

Explain why some areas have experienced areas of multiple deprivation (6)

Scottish Highlands

Unemployment is low but available jobs are mainly in the primary sector

The remoteness and relief of the land means that there are few industries and businesses Economy relies on agriculture and tourism

Declining and aging population Access to beautiful countryside

East Anglia

Many jobs are seasonal e.g. Fruit

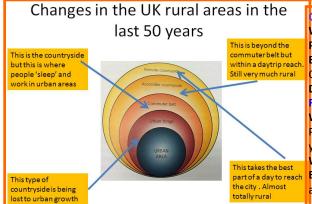
Life expectancy is higher than national average

Pleasant climate

Most residents can commute to London and Cambridge

Many coastal areas are in decline (WOTN)

Varied employment



Commuter Villages

Where: Outside the URBAN FRINGE close to towns and cities
Population: people moved from URBAN areas, YOUNG families

Benefits: improved TRANSPORT links make it easier to travel jobs in the CITY/TOWN

Disadvantages: decline in services because people use services near work Retirement communities

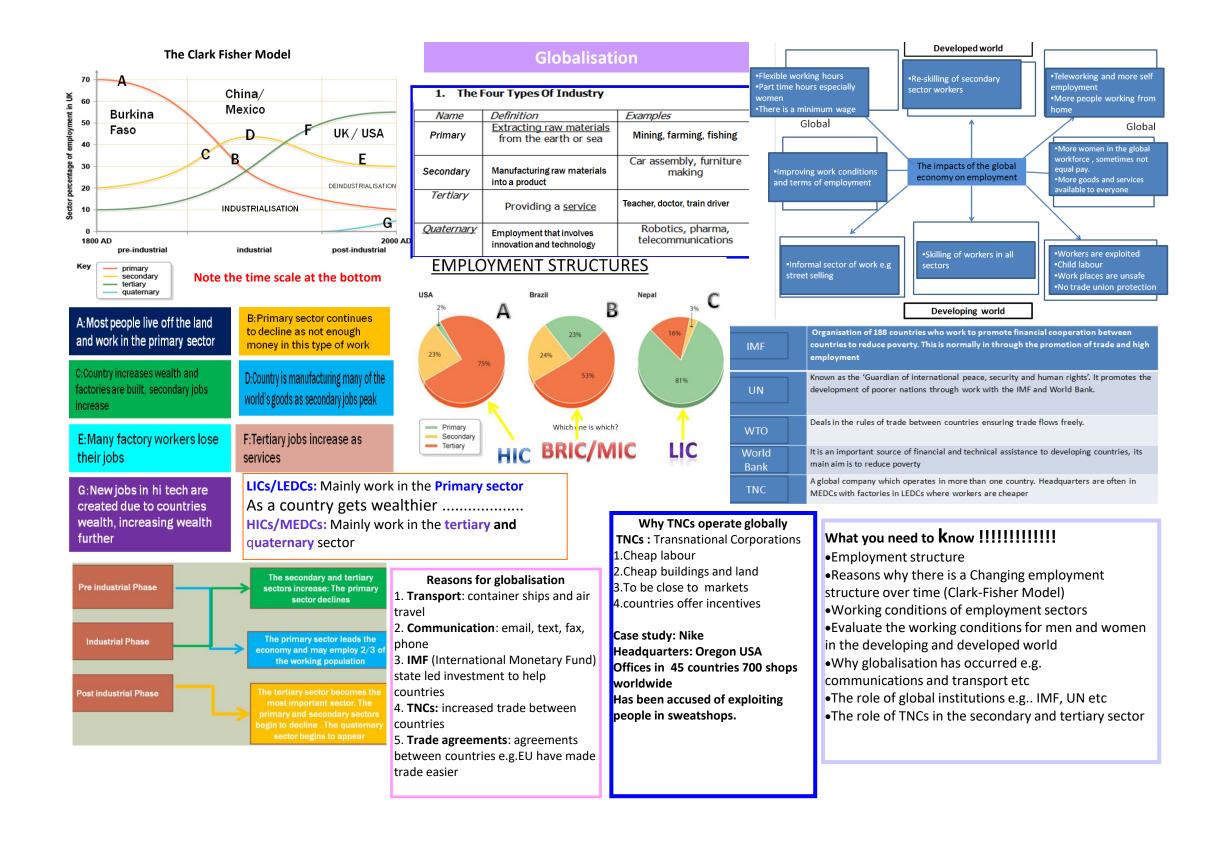
Where: mainly COASTAL areas

Population: large % of older people due to older people migrating in and younger people leaving

Why: longer life expectancy want to live in quiet attractive places

Benefits: cheaper housing, specialised services as towns have adapted to the

aging population



Key terms

Birth rate: number of lives births per 1000 per year **Death rate:** number of deaths per 1000 per year **Infant Mortality rate:** number of children who die

before the age of 1 per 1000

Natural increase: Birth rate—death rate

Immigrants: incomers Emigrants: outcomers

Life expectancy: the age you're expected to live to Economically dependents: really young or old

Factors contributing to a fall in mortality

- Modern medicines
- Vaccinations
- Better healthcare
- Hygienic housing
- Clean water
- Better diet

Factors contributing to fall in birth rate

- Access to contraception
- Women educated
- •Economic burden
- Marrying later

High birth rate

Economic asset, religious reason, boys, lack of contraception

Future populations?

- More contraception
- Wars
- Natural disasters
- Diseases e.g. HIV/AIDS

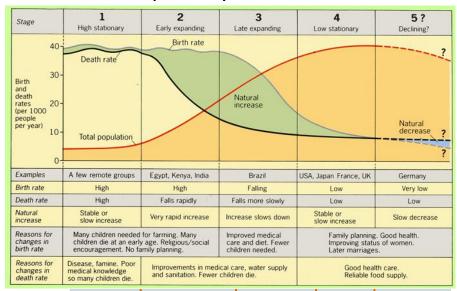
Youthful population

- Pressure on schools and housing
- Pressure on future employment

Ageing population

- Pressure on healthcare and nursing homes
- Pressure on taxes to pay pensions
- 'grey pound' strong spending power
- Look after grandchildren

Population dynamics



Population Pyramids











Population pyramids: LOOK AT THE SHAPE

Wide at bottom = high birth rate
Wide at the top = low death rate

Narrow at the bottom = low birth rate

Narrow at the top = high death rate

Bulging in the middle = economically active

Underpopulated

Managing populations optimum population

overpopulated

Pro-natalist: encourages people to have children **e.g. Singapore**Tax rebates, cheap nurseries, spacious apartments, government sponsored dating website

Anti-natalist: discourages people to have less children e.g. China's One Child Policy 1979

Consequences: Female infanticide, marrying age limits, forced abortions 120:100 ratio, spoilt **'little emperors'** bride kidnapping, ageing population, shortage of labour in the future.

<u>Push factors:</u> war, poor education, lack of services, political instability <u>Pull factors:</u> better jobs, education, healthcare, better services

Migration

Benefits for the host country

- Workforce
- Willing to work longer hours
- New cultures: entertainment
- Skilled workers

Negatives for the host country

- Jobs givens to migrants
- Send money back to their country
- Pressure on housing and schools

Benefits for the source country

- Less pressure on resources
- Money sent home

Negatives for the source country

- Loss of economic active
- Loss of 'brain drain'
- Family breakdowns

Migration policy

Open door policy

•Government inviting migrants e.g UK 1950

Commonwealth countries given free entry

 Might be under populated and need to build up their economy

Meet shortage of skilled/unskilled quotas
 Skills test

•5 tiers

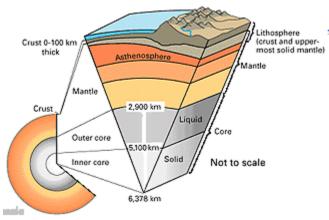
 Have to meet the skills criteria to enter depending on what the country needs

Full fills gap in the workforce

Impacts

UK workers argue their jobs being taken
Pressure on resources

Contribute to the economy



Crust A relatively thin layer of solid rocks around the outside of the earth. **Continental crust** has an average depth of **5km** and is mainly composed of **Granite. Oceanic crust** has an average depth of **70 km** and is mainly composed of **Basalt.** The average temperature of both is 10°C

Mantle A layer of melted rock 2900 km beneath the crust. Very hot with a temperature of **375°C** and solid, but has the consistency of treacle.

Outer core A layer of **molten rock** 2900 – 5000 km below the crust. Average temperatures of **3000°C** and an **iron** / **nickel** composition.

Inner core - The centre of the earth with a radius of 1400 km and temperature of about 5700°C and an iron / nickel composition.

Preparing for a hazard

Strengthening structures e.g. Shock absorbers, deep

EXAM TIP: You need to say how these help lessen the

foundations, reinforce framework, base isolators,

have evacuation routes

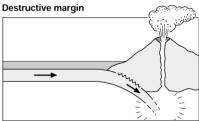
impact of an earthquake

•Earthquake drills e.g. Japan

flexible gas and electricity pipes

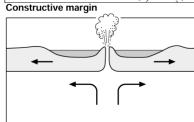
Restless earth

Unit 1 :Topic 1 Restless earth Sections	Content	Revised
Structure of the earth	 What material are they made up off? 	
 Core, mantle, crust 	 What are the temperatures? 	
	 Convection currents 	
Plate boundaries	 How do they move? 	
Constructive	 What do they cause? 	
Destructive	 Continental and oceanic crust 	
Conservative	 Subduction 	
Collision		
3. Volcanoes	 Different types of volcanoes 	
3a. Volcano case study	The shape of volcanoes	
LIC: Montserrat	What they release	
Primary, secondary, social and economic impacts	How powerful they are	
4. Earthquakes	Focus and epicentre	
4a: Volcano case study	 Seismic waves 	
LIC: Haiti	 Aftershocks 	
HIC: New Zealand	 Magnitude 	
Primary and Secondary impacts		
Managing Hazards	 Planning 	
Case study: New Zealand Earthquake	 Preparation 	
	 Short and long term relief 	
	 Building design etc. 	

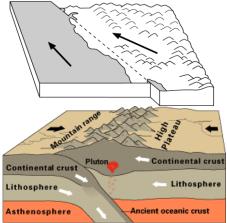


Destructive: This happens when oceanic and continental plates move together. The oceanic plate is denser (heavier) than the continental one and is forced down into the mantle. Here it melts and is released as magma (volcano). The continental plate is forced up (Fold Mountains) and earthquakes occur due to the movement of the plates. E.G. South East lange.

Constructive: New crust forms in undersea valleys in mid – ocean. Oceanic plates move apart causing magma to rise up as a volcanic eruption, and once cooled new land is formed. The new crust gradually pushes the older crust sideways, and away from the ridge. A mid- ocean ridge (undersea mountain chain develops). Minor earthquakes occur. E.G Mid Atlantic Ridge.

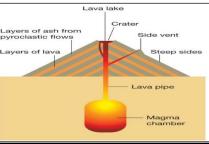


Conservative margin



Conservative: Two plates move past one another. Pressure builds up as the plates move causing a massive earthquake. No crust is created or destroyed and no volcanic eruptions take place. E.G. San Andreas Fault, California.

Collision: Continental plates converge (move together). They are buckled and pushed up to form Fold Mountains. No eruption, but violent earthquakes occur. E.G. Himalayas.



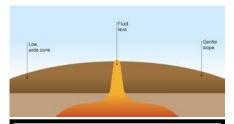
Composite Volcano

•Alternating layers of ash and lava

•Pyroclastic flows

•Andesitic lava

•Violent



Shield Volcano

- Constructive boundaries
- Gentle slopes
- Basaltic lava
- Eruptions rarely violent

Responses to a hazard

- Sending aid/relief
- Evacuate people
- Set up shelters
- Send food and water

17

Volcanic example in an LEDC (Montserrat)

Location: Montserrat in the Caribbean.

Volcanic area: Soufriere Hills. Date of eruption: July 1995 Eruption lasted: 5 years

Chances Peak Volcano had been dormant for over 200 years.

Emergency plans: Evacuating people to nearby islands or Britain. People had to

get emergency aid from Britain in order to rebuild island.

Nos evacuated: 6,000 (over half the population)

increase in rent

Numbers killed: 23 – people who stayed to watch over their crops.

Things destroyed: - farmland covered by lava. 2/3 of the homes destroyed covered in ash and mud. Pyroclastic flow (rivers of hot gas, ash, mud and rock moving at very high speeds at temperatures of about 500°C) covered large areas of the island. Tourist industry destroyed

Response

- •5000 people evacuated to the north island
- •Royal navy evacuated 4000 people to Antigua
- •UK sent £40m relief aid
- •Red cross: evacuation camps
- •Monitoring stations to detect volcanic activity.

Earthquake example in an LEDC (Haiti)

Location: Haiti, Caribbean

Plates involved: Caribbean and North American Plate

Date: 12th January 2010 Time: 9.53 pm

Strength: 7.0 Depth: 8 miles

Areas affected: Port-au-Prince, Haiti – 16 miles from the

epicentre

Nos dead: 230,000 Nos injured: 300,000 Nos homeless: 1 million

Damage caused: Over 250,000 buildings destroyed including the National Palace, electricity supplies cut, No phones, roads closed, 4,000 inmates escaped from the

prison.

Huge rescue efforts followed.

Reasons for high death rate: Area is densely populated and housing is poorly constructed. Epicentre was very close to the capital city where over a million people lived. The earthquake was also very shallow.

Earthquake example in an MEDC (New Zealand)

Location: Christchurch, New Zealand

Plates involved: Date: February 2011 Time: 1.00pm Strength: 6.3 Depth:

Areas affected: Christchurch

Nos dead: 181 Nos injured: 2000

Nos homeless: 10,000 homes to be rebuilt **Damage caused:** 80% of city without electricity

50% of city centre buildings collapsed

10,000 homes to be rebuilt, businesses affected (income)

Christchurch couldn't hold the Rugby world cup games

(lost of tourism, income)

Reasons for low death rate: good emergency services

Responses

Chemical toilets were provided for 30,000 people International aide was provided in the form of \$6-8 million, roads and houses were cleared of silt

Preparation for Volcanic Eruptions

Some of the methods scientist use to predict are;

Lasers to detect the physical swelling of the volcano

Chemical sensors to measure the increases in sulphur levels

Seismometers to detect the large number of earthquakes that occur due to the magma rising up

Ultrasound, which can monitor low-frequency waves within the magma as the surge of gas and molten rock moves upwards

Satellite images to record the warming of the ground surface as the magma edges towards the 'breaking through point'.

Some of the methods scientists and local authorities use to plan are;

- Have an evacuation plan, e.g. supplies of food and water, medical facilities, face mask to prevent inhaling ask and temporary homes (tents).
- •Government agencies such as the police organise the evacuations.
- ullet These need to be practiced and publicized.

Factors causing damage in an earthquake

- Focus and epicentre
- Magnitude
- Population density
- Building design
- Time of day
- Wealth of a country

Preparation for earthquakes Some methods of prediction are –

- Laser beams across major fault lines to detect movement
- Monitoring an increase in the escape of radon gas, which may suggest the approach of an earthquake
- Checking water levels in well, which may fall before a earthquake as the water seeps into small tension cracks

Using seismographs to detect small fore shocks

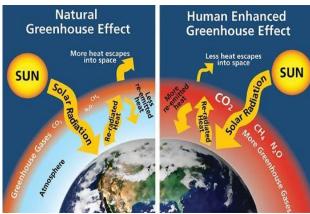
Some of the methods scientists and local authorities use to plan are-

- Construct buildings and infrastructure (bridges, roads etc.) that can with stand the earth shaking.
- Plan for rescue, restoring essential services and arranging for temporary evacuations.
- Evacuation routes must be practiced and individuals need to have emergency kits with things like food, water, torches etc.

Natural causes of climate change

- Orbital changes Scientists believe that every 100,000 years or so the Earth's orbit changes from a circular to elliptical (egg-shaped) pattern.
 This changes how much sunlight we receive. The Earth's axis moves (every 41,000 years) and wobbles (every 21,000 years) affecting how much sunlight reaches us.
- •Solar output The Suns output changes over time. Sunspots (tiny black spots) can cause less energy to leave the Sun and therefore reach us. Solar energy can at times increase and decrease and cycles have been identified by scientist.
- Volcanic activity Major volcanic eruptions lead to brief periods of global cooling, due to ask and dust particles being ejected high into the atmosphere, blanketing the Earth.





Greenhouse gases: Nitrous Oxide, CO2 and Methane CO2: Human activities have increased the production of CO2 through burning fossil fuels, such as oil, gas and coal, making cement and steel manufacture

Methane: Cow and rice farming

Nitrous oxide: iS emitted during agricultural and industrial activities, as well as during the combustion of solid waste and fossil fuels.

Climate and change

Impact of climate change on people and ecosystems =

- •Little Ice Age During the Little Ice Age, from 1600-1750, the global temperatures were on average 0.25°C. Evidence from the UK shows shorter crop growth records and frozen waters in the Thames. Between 1607 and 1814 Londoners enjoyed 'ice fairs' and skating competitions on the frozen river. This period of colder temperatures is believed to be caused by sunspot activity and a more active volcanic period. Evidence, through diaries and paintings
- •Extinction of megafauna During the Pleistocene ice age very large mammals lived in Europe and North America, such as the woolly mammoth, saber-toothed tiger, large wolf and giant beaver. As the ice age ended and the ice melted as many as 135 species became extinct. Scientists believe they were unable to adopt to the new conditions. Weather and plant life were changing, so food chains

became extinct. Scientists believe they were unable to adapt to the new conditions. Weather and plant life were changing, so food chains effected. Other people believe them became extinct because humans hunted them.

Future climate challenges = Climate change in the UK

Climate change may have some positive effects on the UK such as -

•Temperature increases could increase the growth of wine and other agricultural products in the UK, so increasing profits for these industries.

Warmer, sunnier summers could increase coastal tourism within the UK.

Climate change may have some negative effects on the UK such as -

- •A complete loss of winter sports, as snow disappears from highland areas
- More cases of tropical diseases like malaria
- •More severe storms and longer summer droughts, making our climate more extreme
- ullet The economic cost of helping climate change refugees who migrate from poor countries to the UK
- •Major changes for fishing industries, especially if ocean currents are disrupted by melting ice in Greenland, making British waters turn colder
- •Rising sea-levels could bring major erosion to sand dunes and coastal cliffs, this could lead to loss of properties, farms and industries.
- •Temperature increases mean species shifts and migrations, such as the black grouse disappearing from the highlands.

The UK's predicted climate change

- Average temperature may rise
- Less predictable rainfall patterns with drier summers
- Possibly longer summers and extreme cold in the winter

Changes will happen because

- North Atlantic current is likely to move which will reduce sea temperatures and bring less rainfall
- More air masses from the north bringing more storms and snow

Climate change challenges in Bangladesh

Environmental impacts: river flooding would get worse due to heavier rains and sea levels, Tropical storms would be more frequent, dry seasons could get longer=droughts

Economic Impacts: rises in sea level could reduce agricultural output, homes and businesses destroyed leading to the disruption of the economy as money is spent on repairs.

The cost of repairing homes is more than the government can afford

Coastal flooding damages farm land increasing the salinity which makes it hard to grow crops

Increased flooding will increase the spread of water -borne diseases

Topic Revision Worksheets

On the next few pages you will have the opportunity to apply your knowledge of all three components.

At this stage you should be able to complete most of the worksheets.

Have a go!

4.2 A number of physical and human processes work together to create distinct UK landscapes

Upland Areas

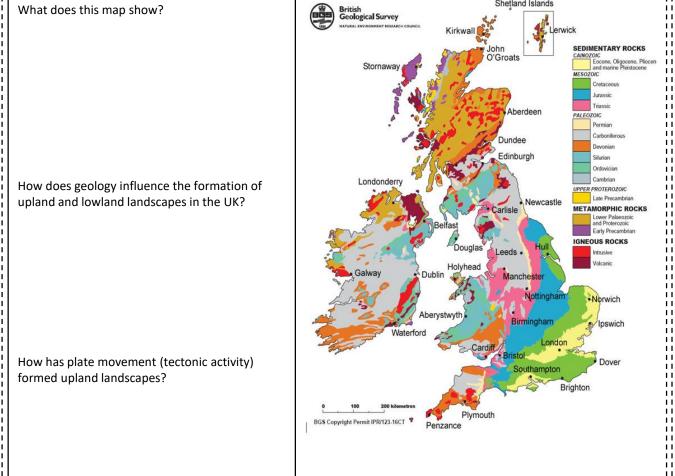
4.1 Geology and past processes have influenced the physical landscape of the UK



Sedimentary rock characteristics	Igneous rock characteristics	Metamorphic rock characteristics

Add notes to the table to describe what landforms are found in the Lake District. Remember to make a note about which processes are involved!

	Feature	How is it formed?	Picture
	U-shaped valleys		
	Corrie		
	Arête		
	Hanging valley		21





lce sheet

EQ: Why does the physical landscape of the UK vary from place to play?

4.2 A number of physical and human processes work together to create distinct UK landscapes

Human activity in the Landscape

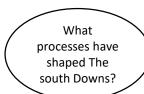
Read up the three many ways humans use the landscape, give an example of each one, what are the good and bad ways humans use these landscapes

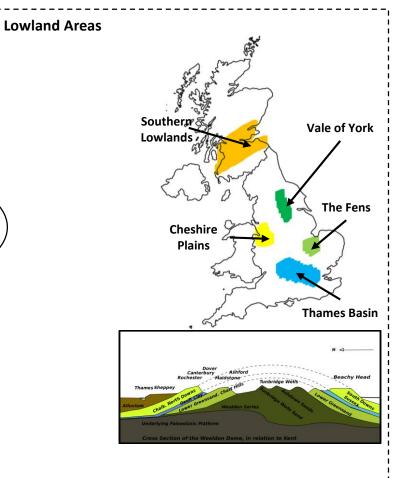






	STATE OF STA		i I I
Agriculture	Forestry	Settlements	 - -
Example:	Example:	Example:	
Good:	Good:	Good:	
Bad:	Bad:	Bad:	



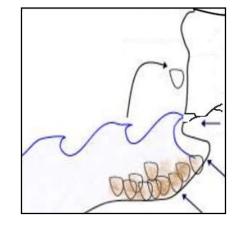


Add notes to the table to describe what landforms are found in The South Downs. Remember to make a note about which processes are involved!

i		
Feature	How is it formed?	Picture
Scarp slope		
Dip slope		Die slope Searp Vale
Vale		22

EQ: Why is there a variety of distinctive coastal landscapes in the UK and what are the processes that shape them? 4.3 Distinctive coastal landscapes are influenced by geology interacting with physical processes Add the features of each wave to the table – include a diagram Coastal geological structure Label the diagram to show which coastline is: concordant and discordant. Give an example of where each How are waves formed? coastline is found in the UK and it's features **Constructive wave features Destructive wave features** Ballard Point Swanage Bay

Annotate the 4 erosional processes around the diagram





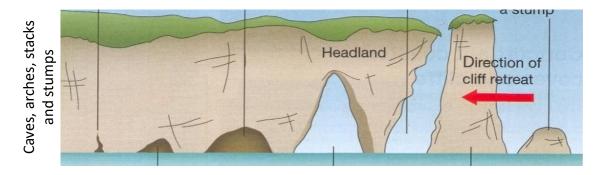
	How will this influence erosion?	Example of rock tytpe
Hard rock coasts		
Soft rock coasts		23

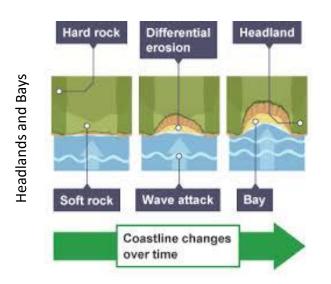
EQ: Why is there a variety of distinctive coastal landscapes in the UK and what are the processes that shape them?

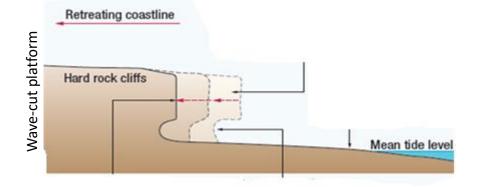
4.3 Distinctive coastal landscapes are influenced by geology interacting with physical processes

What is an erosional landform?

Annotate around the diagrams to explain how they are formed – remember to add key terms and include which erosion types are present and number each stage







	EQ: Why is there a variety of distinc 4.3 Distinctive coastal landscapes ar			e them? 		
	What is weathering?			 Drav	Longshore drift or an annotated diagram to show what Longshore drift is and how it transports mat	erial along the
1 1 1				beac		
 	Describe each process in the table a	and draw a picture to illustrate what	is happening	 		
 	Mechanical (freeze-thaw) weathering	Biological weathering	Chemical (acid rain) weathering			
! ! ! ! !						
! !						
				III III III Pogo		
 		,		;; Kead ;; term		emember key
 	What is mass movement?	How does clima	te influence mass movement?		How is this formed?	Example
1 1 1				beaches		
 - -	Name and describe the 3 different r	mass movement types		11		
1 1 1			Slide plane			
			Detached			
 	Cliff face ▼			11		
	Scree			Spits		
	Head Scarp					
.	The state of the s			Bars		
 	Foot					
! !	Curved slip plane Toe					25

4.4 Distinctive coastal landscapes are modified by human activity influencing with physical processes

Human activity on the coast

Read up the three many ways humans use coasts – describe and explain how these impact the coastal

Human Activity	Impact on coastal environment
Development	
Agriculture	
Agriculture	
Industry	

Case study: How p	hysical and human p	processes interact
-------------------	---------------------	--------------------

Where is this coastline located?	Why is it's location significant?

What natural processes are operating at this coastline?

Add notes to the table to show how humans have altered the coastal landscape and the effects it's had on

the physical p	rocesses
Human feature	How does it interfere with the natural processes along this coastline?
i I	26

		dscapes and communities and why is there conflict about how processes present challenges along coastlines and there are a			
!	ate change impacting coastal a		Coastal management Add ideas to explain the different types of shoreline management plants (do nothing, hold the like, m realignment – strategic realignment and advance the line) How do we protect our coasts?		nagement plants (do nothing, hold the like, managed re) do we ct our
 			ii !! Hi	ighlight which are soft engineering and which are hard	l engineering
, 		What are the risks to the		Costs	Benefits
Why is the r	isk of coastal erosion and flood	coastline from climate change ding likely to increase in the future?	nlanishmant Grovnas		
Problem	Named group of people	Impact on this group	Beach re		
Erosion of the coastline					
Coastal flooding			Slone ctabilisation		27

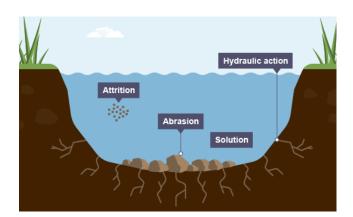
EQ: Why is there a variety of river landscapes in the UK and what are the processes that shape them? 4.6 Distinctive river landscapes have different characteristics formed by interacting physical processes Annotate the diagram to show how rivers change from the upper, middle and lower courses – remember **Drainage Basin** to include: channel shape (width, depth), valley profile, gradient, discharge (volume of water), velocity Label the features of the river on the diagram – ensure you write the definitions for each key word around (speed), sediment size your diagram. Challenge: can you add on the watershed and label where you would find waterfalls and v-shaped valleys Key terms I need to use: Journey of a river Key Words: Mouth Tributary Meander Delta Source Floodplain Ox Bow Lake Confluence Characteristics **River Severn:** What is a drainage basin?

28

EQ: Why is there a variety of river landscapes in the UK and what are the processes that shape them?

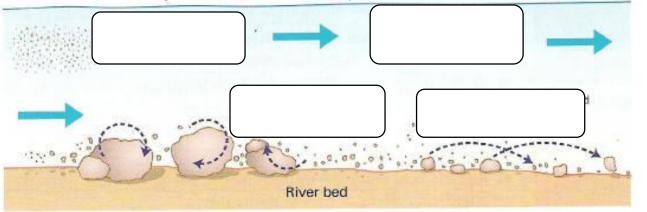
4.6 Distinctive river landscapes have different characteristics formed by interacting physical processes

Annotate the 4 erosional processes onto the diagram



Which two mass movement types affect river valleys? – Draw a picture of them both

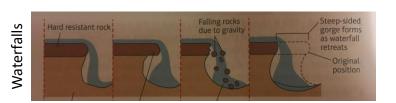
Label and annotate the diagram to show how a river transports material



River landforms

Label the diagram to show which coastline is: concordant and discordant. Give an example of where each coastline is found in the UK and it's features

Interlocking spurs



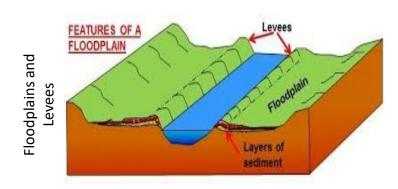
EQ: Why is there a variety of river landscapes in the UK and what are the processes that shape them?

4.6 Distinctive river landscapes have different characteristics formed by interacting physical processes

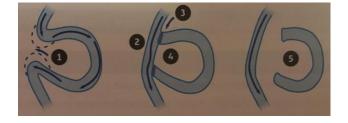
Annotate around the diagrams to explain how they are formed – remember to add key terms **River landforms continued**

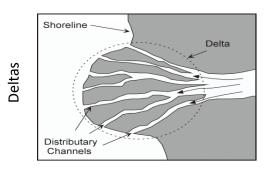
and include which erosion types are present and number each stage

Meanders









EQ: Why is there a variety of distinctive coastal landscapes in the UK and what are the processes that shape them? 4.6 C and 4.7 A – Physical and human factors which alter storm hydrographs Human and physical influences on hydrographs Key terms I need to use: Describe how these features cause flashing (flooding) or a subdued (no flooding) hydrographs Label the diagram and include definitions of each term precipitation Factors that result in a flashy hydrograph Factors that result in a subdued hydrograph (increased chances or flooding) (decreased chance of flooding) Precipitation Geology Drainage basin size and shape seepage river Soil Slopes and soil depth River Label the correct discharge parts of the hydrograph (cumecs) Vegetation What is a -30 hydrograph? Storm Towns and cities flow 60-What do hydrographs 50 Antecedent conditions tell us about river Rainfall (mm) 40 discharge? 30 Summary 31 Time

	EQ: What are the challenges for river landscapes, people and property and how can they be managed? 4.8 Some rivers are more prone to flood than others and there is a variety of river management options				
·	od risks increasing?		River manag How doo environ Agen reduce risk	es the ment cy flood ?	
Why is t	the risk of flooding likely to increase in the future?		ghlight which are soft engineering and which are hard		
What a	to the social economic and equipmental impacts of these three fleeds?	Flood barriers Flood walls		Benefits	
i What a	re the social, economic and environmental impacts of these three floods? What are the impacts from these floods?	11			
Boscastle Flood 2004		ETTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT			
Tewkesbury 2007 B			retention		
Somerset 2014 Te		River restoration		33	

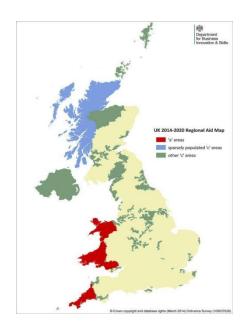
5.1 Population, economic activities and settlements are key settlements are key elements of the human landscape______

Urban and rural area differences

Fill in your table to describe what rural and urban areas are like (features). Remember to think about: population density, age structure, economic activity, settlements etc)

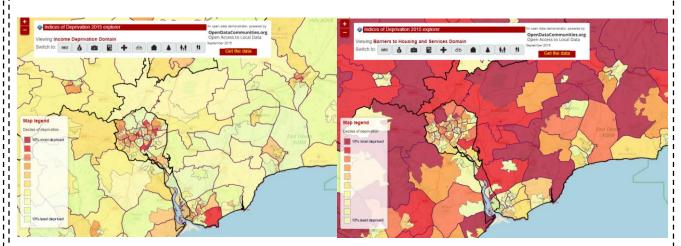
population density, age structure, economic activity, settlements etc)			
	Features of Urban areas	Features of Rural areas	

Annotate ways the government has tried to reduce the differences between urban and rural areas. (Think about what help they get and why)



Challenges in rural areas

What challenges face rural areas?

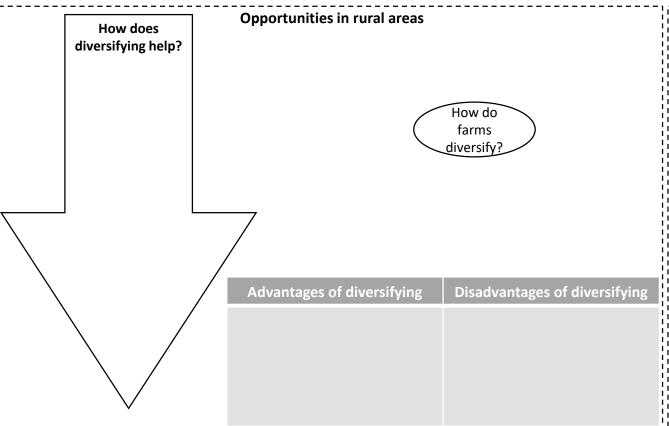


What do the IMD maps show of deprivation in these areas?

How does this impact young and elderly people?

EQ: Why are places and people changing in the UK?

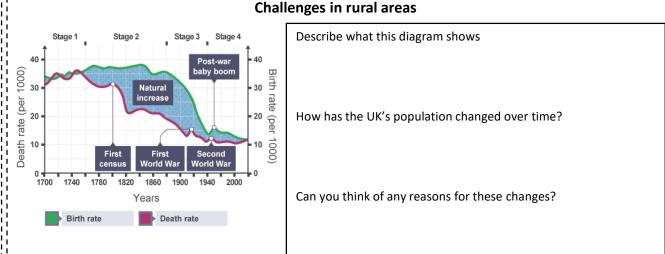
5.8 The changing rural area creates challenges and opportunities



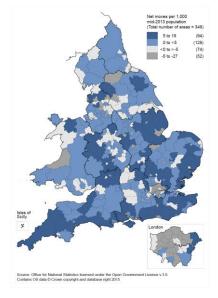
Read up on how The Eden Project help the surrounding areas in Cornwall.



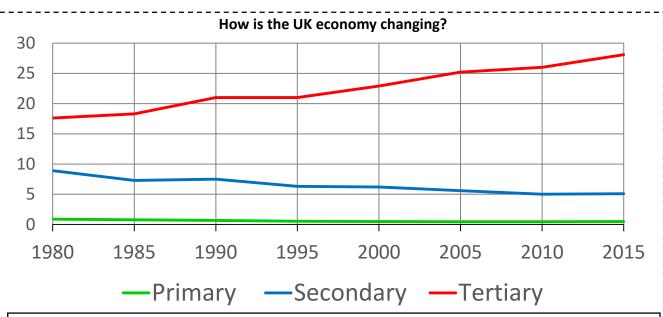
Advantages	Disadvantages



Annotate the map the show how national migration has impacted the UK – which areas have people moved from and to? Think about age of people who move and reasons for this movement.







Describe what this graph shows

Can you give any reasons for the changes?

The North East

What was the main industries in the NE?



The South East
Why does this area attract
business?



Why did these industries decline?

What happened to the people in these areas after industries declined?

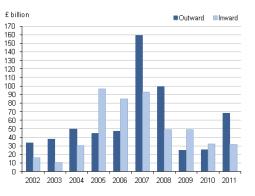
What types of industries are there today? Why has the tertiary sector increased?

What types of primary jobs are found in this region?

Why is manufacturing in this area growing?

Why is this an important area for tertiary and quaternary industries?

The UK's growing economy



What does this graph show?

Why do companies like google want to invest in the UK?

How will this benefit the UK?

Read through the statements. Put them into the correct column on the table – colour-code advantages/disadvantages

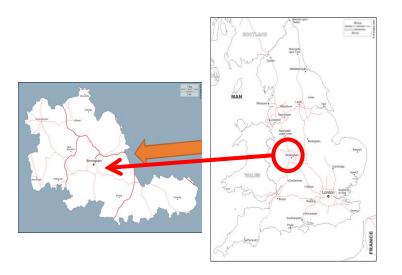
Definition: When companies which were previously owned or run by the Government (state) are now owned by private owners.	Examples of these companies include: British Gas, British Telecom, British Rail, British Steel, British Airways.	
Definition: The increasing interconnectedness and interdependence of the world.	This process has meant that more foreign companies now own UK firms, so increasing Foreign Direct investment.	
This process has meant that there are more links between foreign TNCs and the UK, increasing FDI.	The idea is that if a private company own a firm, they will be more efficient and run a better service.	
Definition: Trade without extra taxes (tariffs or imports) which increase prices.	This increases FDI as goods from other countries don't look as expensive because there are fewer taxes on them.	
This process has led to some job losses in the UK however.	The EU has encouraged free trade within the EU to make goods and services cheaper.	

	How has globalisation increased FDI into the UK?	How has free trade policies increased FDI into the UK?	How has privatisation increased FDI into the UK?
1 1 1			
			36
! !			30

EQ: How is Birmingham changing?

5.3 The context of the city influences its functions and structure

Birmingham's location: (Annotate to explain how Birmingham's location influences it's national, regional and global connections – think about site, situation and global links)



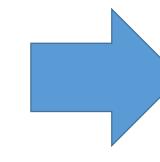
Birmingham's structure: (Annotate around the diagram to explain what the features of a city include – read through features of what Birmingham is like and fill in the table)











	CBD	Inner City	Suburbs
Age of buildings			
Density of buildings			
Function/ Land use			
Environmen t quality			37

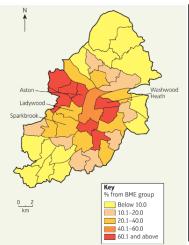
EQ: How is Birmingham changing?

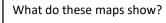
5.4 The city changes through employment, services and the movement of people

Migration in Birmingham

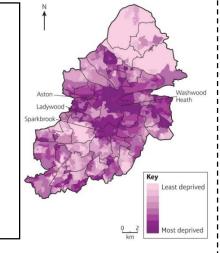
Add reasons to the table to explain why people are migrating to Birmingham – remember national (moved from somewhere in the UK), international (moved from another country) – which are push or pull factors?

National migration	International migration

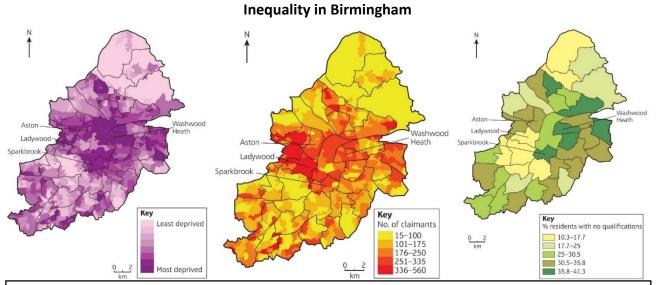




What can these maps tell us about where migrants move to in Birmingham?



Impacts of migration in Birmingham



What do these maps show?

What can these maps tell us about inequality in Birmingham?

Why is there inequality in Birmingham?

EQ: How is Birmingham changing? 5.5 The changing city creates challenges and opportunities **Decline in Birmingham**Read through the causes of inner city decline and add reasons on the arrows to explain how each factor caused people to move out of Birmingham's inner city areas Slum clearance **Job losses** Transport and development schemes Why did Birmingham experience decline? Why was decentralisation bad for inner city areas of Birmingham? What did Birmingham do in response to **decentralisation**?

Economic and population growth in in Birmingham

Why have TNCs invested in Birmingham?

Annotate around the two photographs: what has happened to this area? What have been the impacts? (Remember to include key terms!)

Selly Oak



Moseley



5.6 Ways of life in the city can be improved by different stra	Regenerating Longbridge	Recycling:	Green transport:
Where in Birmingham?	Benefits of the regeneration:		
What was the site like before the regeneration happened?			
	Costs of the regeneration	PAPER GLASS PLASTIC METAL Strate	egies to
What was built there? Why did they regenerate Longbridge? What are the		m Birm	aake ingham ustainable
long-term benefits?		Green Space:	Eco-housing
Pobranding Fastside	Social Economic Environmental		
Rebranding Eastside Where in Birmingham?	Benefits of the rebranding:		
O Si Parida Chruch Christophan Christophan		5.7 The city is interdependent with rural areas, l	eading to changes in rural areas
What was the site like before the rebranding		What are the costs and benefits of Birmingham of	ty being interdependent on it's rural surroundings?
happened?		Costs	Benefits
	Costs of the rebranding:		
What was built there?			
What were the aims of the rebranding? How does it help Birmingham economically?			
			40
i r	Social Economic Environmental		

Exam Practice!

- ✓ The more you familiarise yourself with the exam paper, the more confident you will be when writing your final exams.
- ✓ Get use to writing up answers from the actual exam paper.
- √ Visit the Edexcel website for a look at past papers.
- ✓ On the following pages are a mixture of exam questions. Have a go at answering them!

Suggest why the effects of a tectonic hazard vary between areas of contrasting levels of wealth.

[6 marks]

[9 + 3 SPaG marks]	
Introduction: Introduce your two examples of a natural hazard.	
Point: Immediate and long-term responses were successful in a rich country.	
(what were they? How did they help to reduce the effects? What were the effects?)	
Counterargument: Immediate and long – term responses were not as successful in a poor country.	
(what were they? How did/didn't they help to reduce the effects? What were the effects?)	
Conclusion: Your overall opinion linking back to the exam question.	

Using two named examples, evaluate the effectiveness of the immediate and long-term responses to a tectonic hazard in two countries of contrasting wealth.

Choose either an eartho	quake or a volcanic eruption.
Assess the extent to wh	ich primary effects are more significant than secondary effects.
[9 + 3 SPaG marks]	
Introduction:	
Introduce your two	
examples of a natural	
hazard. State what	
primary and secondary	
effects are.	
Point:	
Primary effects are	
more significant than	
secondary effects.	
(give examples of	
primary and secondary	
effects, why are	
primary effects	
worse?)	
Counterargument:	
secondary effects are	
more significant than	
primary effects.	
(give examples of	
primary and secondary	
effects, why are	
secondary effects	
worse?)	
Conclusion:	
Your overall opinion	
linking back to the	
exam question.	

Discuss to what extent climate change is responsible for extreme weather in the UK. [6 marks]			
Paragraph 1: Outline how weather is becoming more extreme in the UK - support with evidence. Link this to climate change.			
Counterargument: The weather isn't becoming more extreme - e.g. recording is more sophisticated. It has nothing to do with climate change.			
Conclusion: Your overall opinion linking back to the exam question.			

The weather of the UK is	becoming more extreme.'
Use evidence to support t	his statement.
[6 marks]	
Paragraph 1: Outline	
how weather is	
becoming more extreme	
in the UK - support with	
evidence	
Counterargument:	
The weather isn't	
becoming more extreme	
- e.g. recording is more	
sophisticated	
Conclusion:	
Your overall opinion	
linking back to the exam	
question.	
quescion.	

Using an example of a re	ecent extreme weather event in the UK, assess whether the socio-economic effects were more
important than the envi	ronmental effects.
[9 + 3 SPaG marks]	
Introduction:	
What is your tropical	
storm?	
What are socio-	
economic and	
environmental effects?	
Paragraph 1 -	
The socio-economic	
effects were worse	
than the environmental	
effects.	
(Give examples and	
explain how they were	
worse.)	
Counterargument -	
3	
The environmental	
effects were worse	
than the socio-	
economic effect.	
•	
(Give examples and	
explain how they were	
worse.)	
Conclusion:	
Your overall opinion	
linking back to the	
exam question.	

Using an example of a rec	cent extreme weather event in the UK, to what extent were the economic effects more significant	than
the social effects?		
[9 + 3 SPaG marks]		
Introduction:		
What is your tropical		
storm?		
What are social and		
economic effects?		
Paragraph 1 -		
The economic effects		
were worse than the		
social effects.		
(Give examples and		
explain how they were		
worse.)		
Counterargument -		
3 3		
The social effects were		
worse than the		
economic effect.		
economic erreet.		
(Give examples and		
explain how they were		
worse.)		
Conclusion:		
Your overall opinion		
linking back to the		
exam question.		

