





01

Revision Guide Contents





Geography TGAW





Revision Guide Contents

The aim of Geography is to have the confidence to explore and question the world around us, recognising the great differences in cultures, political systems, economies, landscapes and environments across the world.







Think

Geography is about finding patterns in the complexity of natural and human places, and so thinking outside of the box is vital. Ask yourself questions like;

- How does this link to other things I've already learned?
- How has this part of Geography changed over time, and how will it change in the future?

Find

Geography is endless – it's always been here and it always will be and what that means for you is that the subject is one you can never 'complete'. The best Geographers are the ones fully embrace the fact that the subject has and will continue to influence your life. Leaning into that, by reading around the subject, engaging with the Super Curriculum and taking your learning beyond the classroom, will increase your chances of success.

Build

This handbook is full of the following helpful information that you can refer back to when needed to help build the strong foundation needed for success.

Revision tips: To help you not just at exam time, but throughout the year

Pupil Learning Checklist: Everything you need to know for the topic Case studies: All of the case studies that you must know – you could get a 2 marker on it, or a 9 marker!







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The geography course you are studying is with AQA and the qualification is made up of three different units. All of these are exam based, the first two of which are based on physical and human geography respectively. The third exam is partly based on the fieldwork that you have done over the course of the two years and an issues investigation that will be introduced in a resources booklet that is released just before your exam. You will sit the exams at the end of Year 11, and details of the units you will study are below:

Paper 1: Physical 1h30, 88 marks



Challenge of Natural Hazards



Paper 2: Human

Urban Issues and Challenges



The Living World



Changing Economic World



UK Physical Landscapes: Coasts and Rivers



Challenge of Resource Management

Paper 3: Issue Evaluation, 1h30, 76 marks



Pre-Release Issue Evaluation (document released in March of Y11)



Fieldwork (based on your trips to Birmingham and Carding Mill Valley)



Revision books In Geography



GCSE 9-1 Geography AQA Revision Guide

ISBN: 0198423462

Well-structured revision guide that covers the key content and combines with exam style tasks and practical tips for your revision.



Grade 9-1 GCSE Geography AQA Complete Revision & Practice (CGP)

ISBN: 1782946136

Most students will be familiar with CGP revision guides and this one is a good outline of the course and can be used to help you with your revision. It also includes practice questions which many students find useful.





Other Revision Resources

Seneca Learning

Seneca has been designed by cognitive scientists to help students remember topics better and reduce their stress levels. You can access revision notes on each of your topics and then take quick tests to check your learning. It has been proven to make learning 2 x faster than traditional methods.

https://www.senecalearning.com/

Cool Geography

Created by teachers for students studying GCSE geography, this website has content, diagrams, animations and videos that will help you through your revision.

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

Internet Geography

A dedicated geography website with high quality revision notes covering all aspects of the AQA course.

https://www.internetgeography.net/aqa-gcse-geography/

<u>Quizlet</u>

Quizlet enables you to create their own revision flashcards, as well as to use sets created by others. When you access a set, there are four different modes in which you can use them: cards, learn, match and test.

https://quizlet.com

Get Revising

Whatever apps or tools students use (or don't use), being organised about their revision is key. So why not create revision timetables using Get Revising's Study Planner tool?

http://getrevising.co.uk

Other online revision tools

Flashcards++ https://itunes.apple.com/gb/app/flashcards++/id378786877?mt=8

Examtime https://www.examtime.com/en-GB/

Flashcards to go http://www.flashcardstogo.com

Memrise - helping to learn vocab https://www.memrise.com

Challenge of Natural Hazards Pupil Learning Checklist

Natural hazards		
I can define a natural hazard and give some examples of the different types.		
I can explain the different factors that affect risk .		
Tectonic hazards		
I can describe the distribution of earthquakes and volcanoes .		
I explain the differences between destructive , constructive and conservative plate margins.		
I know the main features of an earthquake and two different ways of measuring earthquakes.		
 <u>Using named examples of a tectonic hazard in both rich and poor countries. I can:</u> (1) Explain why the tectonic hazard happened there, (2) Describe the effects that resulted from the earthquakes both primary and secondary. (3) Describe what was done after the earthquake (responses), both in the long and short term. 		
I can explain why earthquakes cause more loss of life in poor than in rich countries.		
I can explain why people continue to live in areas at risk of tectonic hazards .		
I can explain how monitoring, planning and prediction of tectonic hazards can reduce their effects.		
Weather hazard		
I can describe the global atmospheric circulation model .		
I can explain how the global atmospheric circulation model affects weather around the world.		
I can describe the distribution of tropical storms .		
I can explain the causes of a tropical storm .		
Using a named example I can describe and explain the primary and secondary impacts of tropical storms .		
I can assess and evaluate methods of responses tropical storms in both the long and the short term <u>using a named</u> <u>example.</u>	TYPHOON HAIYAN	
I can explain how tropical storms might be affected by global warming .		
I can explain how monitoring, planning and prediction of tropical storms can reduce their effects.		
I can explain the cause of an extreme weather event <u>using an example.</u>		
I can describe and expel the social, economic and environmental <u>using an example.</u>		
I can identify evidence of the weather becoming more extreme <u>using an example.</u>		
I can explain how extreme events can be managed to reduce the impacts.		
I can assess and evaluate the impact that weather conditions have upon people homes, lives, agriculture, health and transport.		
Climate change		
I can explain the evidence both for and against climate change .		
I can explain both the natural and human causes of climate change.		
I can assess and evaluate the economic, social, environmental and political impacts of climate change both on the world and the UK.		
I can describe and evaluate the mitigation strategies used to reduce the impact of global climate change on a local , national and international level.		
I can describe and evaluate the adaption strategies used to reduce the impact of global climate change on a local , national and international level.		



The Living World Pupil Learning Checklist

<u>Using an example</u> from the UK, I can explain the interrelationship within the natural system.		
I can define and give UK <u>examples</u> of producers consumers, decomposer, food chain, food web and nutrient cycle		
I can explain their interdependence of each of the above and explain how changes might affect each other.		
I can describe the distribution and characteristics of global ecosystems around the world.		
Tropical rainforests (core content)	AMAZON	
I can describe the physical characteristics of the tropical rainforests		
I can explain the interdependence of the climate, water, soils, plants, animals and people in a tropical rainforest		
I can explain how plants and animals have adapted to the physical conditions of tropical rainforests.		
I can describe and explain the problems and issues with changing biodiversity within the tropical rainforest.		
I can describe and explain the changing rates of deforestation .		
I can <u>use a case study</u> to explain the causes of deforestation subsistence and commercial farming, 1.Logging,		
2.Road Building 3.Mineral Extraction		
4.Energy Development, 5.Settlement 6. Depulation Crowth		
U. ropulation Growth Lean use a case study to explain the impacts of deforestation	+	
1.Economic development 2.Soil erosion,		
3.Contribution to climate change.		
I can explain the importance and value of the tropical rainforest on a local, national and international scale.		
I can explain why it is important the tropical rainforest should be managed sustainably .		
I can explain how the tropical rainforest can be managed sustainably using a range of methods 1.Selective logging and replanting 2.Conservation and education 3.Ecotourism 4.International agreements about the use of tropical hardwoods, 5.Debt reduction.		
Hot deserts	THAR	
I can describe the physical characteristics of the hot desert		
I can explain the interdependence of the climate, water, soils, plants, animals and people in a hot desert		
I can explain how plants and animals have adapted to the physical conditions of hot deserts		
I can describe and explain the problems and issues with changing biodiversity within the hot desert.		
I can <u>use a case study to</u> explain the causes of desertification subsistence and commercial farming, 1.Mineral Extraction 2.Energy Development 3.Farming 4.Tourism		
I can <u>use a case study</u> to explain the challenges of desertification		
1.Extreme temperature 2.Water supply 3.Inaccessibility		
I can define and describe desertification		
I can explain the causes of desertification both human and natural		
I can explain a how desertification can be managed using: 1.Water and soil management 2.Tree planting 3. Using appropriate technology		
o. osnig appropriate technology		



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UK Physical Landscapes Pupil Learning Checklist

I can describe the location of the major upland and lowland areas within the UK	
I can describe the location of the major river systems within the UK	
Coastal landscapes of the UK	HOLDERNESS
I can define what the coast is	
I can describe and explain the different types of waves	
I can name and explain the four processes of erosion	
I can name and explain the processes of weathering	
I can name and explain the processes of weathering	
I can halle and explain the processes of mass movement	
wave cut notch) are formed.	
I can describe and explain the process of mass movement and slumping	
I can explain, <u>using an example</u> , how erosion and deposition will impact on the people and the environment at the coast.	
I can describe the processes of transportation in the coastal zone. (Longshore drift and traction, saltation, suspension and solution)	
I can explain the reasons why sediment is deposited on the coast.	
I can explain how depositional landforms (beaches, spit and bars) are formed.	
I can describe and explain methods of hard and soft engineering using an example.	
I can evaluate the cost and benefits of hard and soft engineering using an example.	
I can explain why people have different views about the way the coast in managed and the conflicts this	
may cause <u>using an example.</u>	
I can identify on an OS map all of the coastal landforms and use 4 & 6 fig grid references to locate them	
on a map	
River landscapes of the UK	RIVER SEVERN
River landscapes of the UK I can describe how a rivers long profile and cross profile varies over it's course	RIVER SEVERN
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Urban Issues and Challenges Pupil Learning Checklist

I can explain how urbanisation has happened at different rates and at different times in different parts of the world making reference to LICs and HICs.	
I can explain some of the causes of urbanisation in different parts of the world making reference to LICs and HICs.	
Case study of the LIC or NEE	RIO DE JANEIRO
I can explain why the <u>case study</u> is important nationally and internationally	
I can explain why and how the <u>case study</u> has grown	
I can explain, analyse and evaluate the opportunities in the <u>case study</u> including: 1.Access to services – health 2.Access to services – education 3.Access to resources – water supply 4.Access to resources – energy 5.How urban industrial areas can promote economic development	
I can explain, analyse and evaluate the challenges in the <u>case study</u> including: 1.Managing urban growth – slums, squatter settlements 2.Clean water, sanitation systems and energy 3.Access to services – health and education 4.Unemployment and crime 5.Managing environmental issues – waste disposal, air and water pollution, traffic congestion.	
I can explain and evaluation the how the <u>case study</u> can plan to improve the quality of lives for the urban poor .	
Case study of a HIC	BIRMINGHAM
I can explain why the <u>case study</u> is important nationally and internationally	
I can explain why and how the <u>case study</u> has grown	
I can explain the impact of national and international migration on the growth and character of the the <u>case study</u> .	
I can explain, analyse and evaluation the opportunities in the <u>case study</u> including 1.Cultural mix 2.Recreation 3.Entertainment 4.Employment 5.Integrated transport systems 6.Urban greening	
I can explain, analyse and evaluation the challenges in the <u>case study</u> including 1.Inequalities in housing, education and employment. 2.Urban deprivation 3.Dereliction of buildings 4.Building on brown and greenfield sites. 5.Water disposal 6.Urban sprawl on the rural – urban fringe and of commuter towns	
I can explain, analyse and evaluation the how the <u>case study</u> has undergone regeneration .	
Urban sustainability	FREIBURG
I can describe how people can live more sustainably	
I can explain how sustainable urban living can conserve water and energy, recycle waster and create more green space.	
I can explain how urban transport strategies are used to reduce traffic congestion .	

Changing Economic World Pupil Learning Checklist

I can describe the methods of classifying countries and use different development indicators .	
I can evaluate the use of different developmental indicators .	
I can use the Demographic Transition Model to explain the link between changing population structure and level of development.	
I can explain the causes of uneven development :	
1.Physical	
2.Economic	
3.Historical	
I can explain the impacts of uneven development on people	
I can explain how the development gap can be reduced looking at:	
1.Investment	
2. Industrial development and tourism	
J.Alu A Using intermediate technology	
5 Fairtrade	
6.Debt relief	
7.Microfinance loans.	
I can <u>use an example</u> to show how tourism in an LIC can help to reduce the development gap	JAMAICA
Case study of the LIC or NEE	NIGERIA
I can explain why the <u>case study</u> is important within Africa and internationally	
I can describe the political, social and culture contact of the <u>case study</u> within a world context .	
I can describe the changing industrial structure within in the <u>case study</u> .	
I can explain how manufacturing can stimulate economic growth in within the <u>case study</u> .	
I can define a Transnational Corporation (TNC) using a case study.	SHELL
I can explain the advantaged and disadvantages of TNCS to the <u>case study</u>	
I can describe how <u>Nigeria's</u> politics and trading relationship have changed over time.	
I can described what aid is where is comes from <u>using a case study.</u>	
I can explain what aid Nigeria has received and how it has impacted upon the country <u>using a case study.</u>	
I can explain and evaluation the environmental impacts of economic development .	
I can explain and evaluation impacts of economic development on the population of Nigeria	
Economy of the UK	UK
I can explain why deindustrialisation has occurred in the UK	
I can explain the advantages and disadvantages of the UK move in the tertiary sector (post-industrial economy	
I can explain, <u>using an example</u> , how modern industry can reduce its impact upon the environment and	NISSAN,
become more sustainable	SUNDERLAND
I can explain, <u>using an example</u> , the social and economic impacts of population growth on a rural landscape.	SOUTH CAMBRIDGESHIRE
I can explain, <u>using an example</u> , the social and economic impacts of population decline on a rural	
landscape.	OUTERHEBRIDES
I can describe and explain the impact or transport developments in road, rail, port and airports.	M6 TOLL, HS2, LIVERPOOL 1, HEATHROW
I can describe the North – South divide in the UK.	
I can evaluate and explain the strategies use to solve regional differences within the UK.	
I can examine the global links made with the wider world through trade, culture, increased communication, economics and political groupings such as the commonwealth and the European Union.	
I can analyse the growing interdependence and globalisation of the UK in relation to its economy and politics	



Challenge of Resource Management Pupil Learning Checklist

I can describe the importance of food , water and energy to the economic and social wellbeing.		
I can describe the distribution of resource s around world.		
I can explain why resources are unevenly distributed around the world.		
Resource management core content		
I can describe the distribution of resources around the UK.		
I can explain the changing demand for different foods in the UK.		
I can explain why food miles are increasing in the LIK		
I can explain low food miles can be reduced in the UK		
I can describe the different industries involved in agriculture (agribusiness) and explain how they are		
changing in the UK.		
I can explain the changing demand for water in the UK.		
I can describe the problems with water quality and pollution in the UK and how they can be managed.		
I can explain how the UK is trying to manage water to meet supply and demand .		
I can describe the UKs energy mix and how it has changed over time.		
I can explain how the UK can reduce its reliance on fossil fuels .		
I can describe and explain the economic and environmental issues with exploitation of energy sources.		
Resource management option: Food		
Leap describe the global distribution of calorie intake and food supply including areas of surplus and		
deficit		
I can explain the reasons why food consumption is increasing including:		
•Economic development		
•Rising population		
I can explain and evaluate the different factors which affect food availability including:		
•Climate		
Pests and disease		
•Water stress		
•Conflict		
•Poverty.		
I can analyse the impacts of food insecurity including:		
•Famine		
•Undernutrition		
•Soil erosion		
•Rising prices		
•Social unrest		
I can explain and evaluate how food supplies can be managed to increase supply in certain areas		
including:		
•lrrigation		
•Aeroponics and hydroponics		
•Appropriate technology		
Lean use an example to show how a large scale agricultural development to show how it has both	IDDICATION IN	
advantages and disadvantages.	BURKINA FASO	
I can explain how food resources can be managed sustainably through:		
•Organic farming		
•Perimaculture		
•Fish and meat from sustainable sources		
•Seasonal food consumption		
•Reduced waste and losses		
	AGROFORESTRY	
I can <u>use an example</u> of a local scheme which has managed food sustainably to increase food supplies.	IN KOUTIALA, MALI	

Paper 3 Pre-release Skills Pupil Learning Checklist

Cartographic Skills Atlas Maps: •I can use and understand coordinates - latitude and longitude •I can recognise and describe distributions and patterns of both human and physical features •I can use maps to identify and describe significant features of the physical and human landscape eg population distribution, population movements, transport networks, settlement layout, relief and drainage. •I can analyse the inter-relationships between physical and human factors on maps and establish associations between observed patterns on thematic maps. Ordnance Survey Maps: •I can use and interpret OS maps at a range of scales (and other maps appropriate to the topic) •I can use and understand coordinates – four and six-figure grid references. •I can use and understand scale, distance and direction – measure straight and curved line distances using a variety of scales. •I can use and understand gradient, contour and spot height. •I can use numerical and statistical information. •I can identify basic landscape features and describe their characteristics from map evidence. •I can identify major relief features on maps and relate cross-sectional drawings to relief features. •I can draw inferences about the physical and human landscape by interpretation of map evidence, including patterns of relief, drainage, settlement, communication and land-use. •I can interpret cross sections and transects of physical and human landscapes. •I can describe the physical features as they are shown on large scale maps of coastal and fluvial landscapes. •I can infer human activity from map evidence, including tourism. Maps in associate with photographs: I can compare maps •sketch maps: I can draw, label, understand and interpret them. •Photographs: I can use and interpret ground, aerial and satellite photographs. •I can describe human and physical landscapes (landforms, natural vegetation, land-use and settlement.) •I can draw sketches from photographs. •I can label and annotate diagrams, maps, graphs, sketches and photographs. Graphical skills •I can select and construct appropriate graphs and charts to present data, using appropriate scales – line charts, bar charts, pie charts, pictograms, histograms with equal class intervals, divided bar, scattergraphs, and population pyramids. •I can suggest an appropriate form of graphical representation for the data provided. •I can complete a variety of graphs and maps – choropleth, isoline, dot maps, desire lines, proportional symbols and flow lines. •I can use and understand gradient, contour and value on isoline maps. •I can plot information on graphs when axes and scales are provided. •I can interpret and extract information from different types of maps, graphs and charts, including population pyramids, choropleth maps, flow-line maps, dispersion graphs. Numerical skills •I can demonstrate an understanding of number, area and scales and the quantitative relationships between units. •I can design fieldwork data collection sheets and collection sheets and collect data with an understanding of accuracy, sample size and procedures, control groups and reliability. •I understand and correctly use proportion and ratio, magnitude and frequency. •I can draw informed conclusions from numerical data. Statistical skills •I can use appropriate measures of central tendency, spread and cumulative frequency (median, mean, range, quartiles and inter-quartile range, mode and modal class.) •I can calculate percentage increase or decrease and understand the use of percentiles. •I can describe relationships in bivariate data: sketch trend lines through scatter plots, draw estimated lines of best fit, make predictions, interpolate and extrapolate trends.

•I can be able to identify weaknesses in selective statistical presentation of data.

Paper 3 Pre-release Skills (continued) **Pupil Learning Checklist**

Use of qualitative and quantitative data		
•I can use qualitative and quantitative data from both primary and secondary sources to obtain, illustrate, communicate,		
•Data types: Maps, fieldwork data, geospatial data (GIS), satellite imagery, written and digital sources, visual and graphical sources, numerical and statistical information		
Formulate enquiry and argument		
I demonstrate the ability to:		
•Identify questions and sequences of enquiry		
•Write descriptively, analytically and critically		
•Communicate their ideas effectively		
•Develop an extended written argument		
•Draw well-evidenced and informed conclusions about geographical questions and issues		
Literacy		

 I can communicate information in ways suitable for a range of target audiences. •I have good literacy skills [SPaG]

Paper 3 Fieldwork Pupil Learning Checklist



·I can explain the extent to which conclusions were reliable

Case Studies For Paper 1



Paper 1		
Section	You need to know	My example is
	An earthquake in a HIC	Christchurch
ards	An earthquake in an LIC	Nepal
Haza	A tropical storm	Typhoon Haiyan
	An extreme weather event in the UK	Beast from the East
2077	A small-scale ecosystem	Gheluvelt Park
living Vorl	A tropical rainforest	Amazon
	A hot desert	Thar
al	A section of coastline showing landforms	Holderness
ysicape	How that coastline that is being managed	Holderness
K Ph ands	A river valley showing landforms	Severn
ĽС	How that river that is being managed	Severn

Christchurch 2011



10km west of the city centre of Christchurch, New Zealand

22nd February 2011, at 12:51pm

Magnitude 6.3 on the Richter scale





Thick muddy slush spreads everywhere, causing buildings and other structures to sink into the ground, meaning many roads, footpaths, schools and houses were flooded with silt

The earthquake happened during the day, when people were out and about – as a result, people were injured by large falling buildings, instead of being safe at home in their smaller houses

The earthquake occurred along a conservative margin between the Pacific Plate and the Australasian Plate



Nepal, Asia – epicentre 50km from the capital of Kathmandu

Struck at midday

Magnitude 7.9 on the Richter scale





1.4 million people and proximity to the capital would have contributed to the 9,000 deaths and 20,000 injuries

\$

Nepal is an LIC which means they were unprepared, with poor building quality and a lack of response resources, and depended on aid from other countries, which takes time to arrive



The mountains will have caused significant damage with a 7.9 magnitude quake and made it difficult to get emergency aid to people

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Nepal 2015



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Case Study Factsheet

Philippines, Asia – 2,000 inhabited islands (+ 5,500 uninhabited)

Category 5 on the Saffir-Simpson scale

Winds of 170 mph and waves 15m high



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This was one of the strongest storms ever recorded - most of the destruction in Tacloban was caused by a storm surge, which swept away anything in its path

The Philippines is a NEE and the high levels of destruction meant that help came from all corners of the globe, through the United Nations and individual nations

The cost of rebuilding was estimated at around \$5.8bn - a year after the storm, thousands of people were still living in temporary shelters

Beast from the East 2018



Storm Emma was a weather system that originated from the Azores and travelled north to the UK. On 1st March 2018, the weather front brought blizzards, gales and sleet as it hit the cold air brought down by the Beast from the East





HIC – the response was well organised and rapid

The Environment Agency advised people to prepare for significant disruption



the Met Office issued a series of red warnings for southern England



Gheluvelt Park Pond

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Worcester, North of the town centre

Notable wildlife includes the mute swan, mallard and kingfisher

The weir takes water out of the pond and into the Barbourne Brook, which flows to the Severn half a mile away





Nutrient cycling demonstrates clearly the interdependence of plants, animals and soil



Gheluvelt Park is a memorial park built in honour of those lost in the First World War. It straddles Barbourne Brook and has two distinct areas - a formal park to the east, and an informal area managed for wildlife conservation to the west, next to the River Severn



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The Amazon rainforest, covering much of northwestern Brazil and extending into Colombia, Peru and other South American countries, is the world's largest tropical rainforest.

The Amazon is thought to be home to 10% of known species on earth

An estimated 150-200 billion tons of carbon are stored in the Amazon's forests and soils.





Timber is a highly valued export and deforestation opens the land up for other economic activity



The Amazon has seen economic growth as a result of new industries, improving the quality of life for its population



Balancing the economic gains with environmental losses continues to be an issue

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Case Study Factsheet

Development in the Thar



The Thar Desert is located in northwest India



It is one of the major hot deserts of the world with the highest population density

Due to population pressures this environment is increasingly under threat





Rich resources mean a range of economic activities are possible

Climate creates challenges that people are trying their best to overcome

Fragile environment that needs to be protected as economic development increases



Holderness landforms



The Holderness Coast is located on the east coast of England. It extends 61km from Flamborough in the north to Spurn Point in the south

It is one of Europe's fastest eroding at an average annual rate of around 2 metres per year

Longshore drift moves south towards Spurn Point



The underlying soft boulder clay is being rapidly eroded

Strong prevailing winds creating longshore drift that moves material south along the coastline

Erosion, transportation and deposition are all active processes in this area

Holderness management



North England – Flamborough Head in the north to the Humber Estuary in the south

 \mathcal{N} Destructive waves move eroded material rapidly, meaning there is little protection

Erosion is rapid – around 2 m per year – soft boulder clay is very vulnerable to wave attack





Holderness is a coastline under threat from the sea



Hard engineering is used effectively in many locations, but it has a negative impact on other sections of coast

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Businesses and residents are unsure of what their future holds





The upper course of the river provides impressive landforms



Human activity increases as you move downstream and the land becomes more favourable for development



Erosion, transportation and deposition are all active processes in this area



The River Severn (Afon Hafren) is 354 km (220 miles) long, making it the UK's longest river

River Severn management

The hills in this part of Wales receive about 2,650 mm of rainfall each year, this is a lot!

Further downstream, the land is flatter and floodplains are wide



An unintended consequence of hard engineering is that flood water arrives at places further downstream sooner after the rain event and in larger quantities

If these places have no flood protection, or the flood protection is inadequate, this could lead to flooding there. This is why the Environment Agency uses a combination of hard and soft engineering strategies

Case Studies For Paper 2



Paper 2		
Section	You need to know	My example is
es and ges	A major city in an LIC or NEE	Rio de Janeiro
	How urban planning helps the urban poor	Favela Bairro
Issu	A major city in a HIC	Birmingham
ban Chê	An urban regeneration project	Arena Central
U	A city that is sustainable	Freiburg, Germany
	Tourism in an LIC/NEE to close the development gap	Jamaica
Vorld	An LIC or NEE – context	Nigeria
	An LIC or NEE – TNCs and growth	Nigeria
nic V	An LIC or NEE – impacts of TNCs and growth	Nigeria
iouo	A HIC – regional differences	UK
g Ec	A HIC – post industrial economy	UK
ngin	A HIC - modern sustainable development	Nissan, Sunderland
Cha	A HIC – growth and decline in rural areas	South Cambridgeshire and Outer Hebrides
	A HIC – links to the wider world	UK
sou es	A large scale agricultural development	Irrigation in Burkina Faso
Res	A local and sustainable food supply scheme in an LIC or NEE	Agroforestry in Koutiala, Mali

Rio de Janeiro



South East coast of Brazil, South America

Second largest city in Brazil, with 6.5 million people and rapidly growing due to internal and international migration

Four zones within the city, with difference characteristics - North, Centro, South, West





Rio continues to attract people from within Brazil and from all over the globe

Rapid urbanisation leads to a range of social, economic and environmental challenges

Wealth is growing, but the gap between rich and poor has become wider





Squatter settlements (favelas) develop when people move from rural areas for better opportunities but lack the money to rent accommodation and skills for a decent wage

In recent years, the government have tried to improve building quality and services in the favelas with site and services schemes that provide land for people to build on





The United Nations have recognised the success of this scheme and it has been used in other Brazilian cities



Residents have improved access to services and quality of life



It is not without its problems, but these are slowly being addressed



Birmingham is a city with a population of 3.8million and is the second largest city in the UK

It is located in the West Midlands



Rural to urban migration began during the industrial revolution





Birmingham is the second most multicultural city in the UK and ethnic minorities make up 30% of the population



However, 86% of the cities population consider themselves British and many of these see themselves as 'Brummies'

Birmingham

Case Study Factsheet Arena Central, Birmingham

Arena Central will provide a mixed-use location in the heart of Birmingham city centre

It is designed to meet Birmingham's growing demand for high-quality office space and city centre residential accommodation

It is part of Big City Plan and is situated in Birmingham's Enterprise Zone





The Masterplan: To deliver 1.2 million sq ft of mixed-use development set within a brand new landscaped public realm.

In simple terms: To create an area that can be used for work, living and socialising, in a regenerated space that is focused on sustainability.

Freiburg, Germany

Freiburg is a city in the south of Germany. In the 1970s, the local government set the aim of becoming more sustainable in all aspects of life

10,000 residents are employed in a green industry. One example of green industry is the large cluster of solar panel manufacturers, nicknamed the 'Solar Valley'





Freiburg has the youngest population in Germany; 10% of the population is university aged (18-24 years old)

Freiburg's old town is cobbled, which reduces the amount of car traffic in the city



Environmental sustainability means all developments and day-to-day living doesn't damage the environment



One of the largest islands in the West Indies

Economy based on minerals, agriculture and tourism



Tropical climate and white, sandy beaches





Jamaica enjoys good international air links and is a hub for cruise ships

Tourism generates taxes, employment and income – over 200,000 jobs link to tourism



Economic growth, debt and unemployment are all improving

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Jamaica – tourism



Huge variation in wealth and development – 60% secondary school attendance in cities but 36% in rural areas

GDP per person varies greatly – highest in the south and more than 10x lower in the north



Rural-urban migration occurs because of the distinct differences

Nigeria – TNCs and growth



Employment in agriculture is falling due to mechanisation

Primary industry is becoming more and more focused on oil



Construction and motor manufacturing are growing





The involvement of Transnational corporations is a driving factor in economic growth in Nigeria



TNCs are attracted to develop here because of relaxed taxes and working standards (Which has social and environmental impacts)



The relationships that develop are invaluable to nations that want to develop their economy and become more connected to the global network

Nigeria – impacts of TNCs and growth



Case Study Factsheet

As the economy grows, the population should see some benefits; their quality of life should improve

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In 2000, Nigeria was placed among the 'least developed nations' in terms of wealth and education – in 2011, it had one of the highest HDI improvements over the past decade





Despite the clear improvements, many people in Nigeria are still poor – access to services continues to be a problem



Oil wealth has not been shared with the country effectively, with many profits going to the TNCs rather than fully invested in Nigeria

The gap between rich and poor has become wider

UK – regional differences



The north-south divide shows significant differences in wealth and health

Deindustrialisation affected the North more, due to their heavy industries (ships, steel, coal)

The fast-growing service sector was based around London and the south – London is globally important and has developed more quickly





Financial support from the UK government and the EU has helped to develop new businesses and infrastructure

The Northern Powerhouse is a key element of the government's focus on reducing the northsouth divide, with Lancashire, Liverpool and Manchester being focus areas



Transport improvements will increase access and help to fuel the growth of the north

UK – post-industrial

Case Study Factsheet

Deindustrialisation has occurred due to mechanisation and cheaper products elsewhere



Government policies have driven support (or lack of) for particular industries





The UK is a post-industrial economy – manufacturing has been replaced by tertiary and quaternary services – by 2015, 88% of people were employed in these two sectors



Technology plays a key role in people accessing these services around the world – even the world wide web is a creation of a UK scientist



Research and development is likely to be one of the UK economy's main growth areas

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Case Study Factsheet

UK – sustainable industry



Car manufacturing was not sustainable in the past due to inefficient engines producing toxic pollutants, parts that were difficult to recycle and the energy-intensive production processes. However, the situation is very different today



Sustainable development is increasingly important when companies carry out their work, with strict planning and operations regulations





Today there is much greater concern about the impacts of economic activity on the environment



Technology helps us to ensure that the landscape does not suffer as much when we use materials from the earth



Stricter targets, and fines if they are not met, help to protect the landscape from air, water and land pollution





The north-south divide shows significant differences in wealth and health

Deindustrialisation affected the North more, due to their heavy industries (ships, steel, coal)

The fast-growing service sector was based around London and the south – London is globally important and has developed more quickly





Although the majority of people live in urban environments, 19% of the population live in rural areas



People are migrating from urban to rural areas for a better quality of life as urban areas are expensive and crowded

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Major cities in the UK are surrounded by a greenbelt, an area of green, open space where development is restricted. Within, and just beyond the greenbelt are desirable towns and villages from which commuters can travel to work



UK – wider world



Globalisation has increased the possibility and importance of links between nations

In the past, the UK was one of the world's superpowers and the history of the British Empire is



still evident in our relationships with other countries





The outcome of the UK referendum was to leave the EU, which is a work in progress

Our strong links with countries that were previously colonies gives us reach across the globe



As a small island nation, some see links with other nations as important, so that our voice continues to be heard

Irrigation in Burkina Faso

The dam was built in 1993 on the White Volta River, about 150 km from the country's capital, Ougadougou. It can store up to 1.7 billion m° of water.

From the late 1990s, canals were built to carry water from the reservoir for irrigation. The government hoped that the scheme would increase agricultural productivity and reduce food insecurity.





30% of people in Burkina Faso rely on agriculture for employment

The climate is hot and dry with a short rainy season, meaning there is limited time water and malnutrition is therefore widespread





Koutiala is located in Mali, in Africa

Mali is a very dry country. Intensive use of land for farming is causing desertification making land less fertile.

Gravity is used to move the water, so it is sustainable and doesn't rely on electricity





To combat the poor quality soil, farmers have started planting staple crops like maize in amongst trees and nitrogen-fixing plants.

The plants add nitrogen to the soil so artificial fertilisers aren't needed.