

Geography Department

GCSE Geography Challenges in the Human Environment

Core Knowledge

Name:

	Paper 2.
	3.2.1 Urban issues and challenges (p.2-5)
Class:	3.2.2 The changing economic world (p.6-11)
	3.2.3 The challenge of resource management (p.12-
	15)
Teacher:	

Urban Issues and Challenges Glossary

Keyword	Definition	Icon
Brownfield site	Land that was built on, been abandoned and now awaits a new use.	
Choropleth map	A map using one colour to show information e.g. population density. The higher categories (e.g. largest populations) are shown in a darker colour and they get lighter as the figures are reduced (e.g. smallest populations).	
Decentralisation	The movement of shops, offices and industry away from urban centres in HICs into retail and business parks in the suburbs	Marie Control of the
Deindustrialisation	The decline in the countries traditional manufacturing industry.	CLOSED
Dereliction	Abandoned buildings and wasteland.	
Economic	Chances for people to improve their standard of living through	¥
opportunities	employment.	\$
Formal economy	The type of employment where people work to receive a regular wage and are assured certain rights (e.g. paid holidays, sickness leave).	
Greenfield site	Land that has not been built on.	A COLUMN TO SERVICE AND ADDRESS OF THE PARTY
Inequalities	Differences between poverty and wealth. Inequality can also occur in housing provision, access to services (e.g. jobs, education, healthcare), access to open land, safety and security).	
Integrated	Multiple transport systems are connected, making travel easier.	ath A
transport	One aim is to enable people to switch from private car transport to a more sustainable option.	
Megacity	An urban area with a total population of ten million or more people.	
Migration	When people move from one area to another. In many LICs people move from rural to urban areas (rural-urban migration).	
Natural decrease	The death rate is higher than the birth rate. Population is getting smaller.	

Natural increase	The birth rate is higher than the death rate. Population is getting	1
	bigger.	
Pollution	Presence of chemicals, noise or dirt which have harmful or poisonous	Fa 47
	effects on an environment.	
Rural-urban fringe	The area between a built up area and the countryside. It is an area	Urban Core Urban Frings
	of mixed land uses, from out of town shopping centres and golf	-
	courses to farmland and motorways.	Rural Fringe
Sanitation	Measures designed to protect health (e.g. providing clean water and	- š .
	disposing of waste).	
Slum	An area of poor-quality housing lacking in basics such as fresh water	Ï
	supply and sewers.	19
Social deprivation	The degree to which an area does not have certain services	(REPURE
	(e.g. decent housing and the disposal of sewage and waste).	
Social	Chances for people to improve their quality of life (e.g. through access	
opportunities	to education and health care).	
Sustainable urban	A city which limits damage to the environment and allocates jobs fairly.	
living	People are involved with the decisions that affect their living and a	(5)
	strong sense of community is present. The city strives to use	
	renewables, public transport while being accessible to all people.	
Traffic congestion	Volume of traffic is too great for roads to cope with,	
	so traffic jams form and traffic slows or is stationary.	
Urbanisation	Where an increasing percentage of a country's population comes to	* 650 *
	live in towns and cities.	የ ሬጢያካ
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Urban greening	The process of increasing and preserving open space such	Ensweller
	as public parks and gardens in urban areas.	
Urban regeneration	Revival of old parts of the built-up area by either installing modern	
	facilities in old buildings (renewal) or opting to redevelop entirely	1
	through demolition.	
Urban sprawl	The unplanned growth of urban areas into the surrounding	K 7
	countryside.	K A
Waste Recycling	Extracting and reusing useful substances found in waste.	

Urban Issues and Challenges Pop Quiz

Define birth rate.	The number of live babies born in a year for every 1000 of the
	population.
Define death rate.	The number of people who have died each year for every 1000 of
Joinio dodin rator	the population.
Give two push factors	Extreme climate, lack of resources, lack of safety, lack of services,
	limited job opportunities, crop failure, political and/or religious
	persecution, risk of natural hazards.
What percentage of migrants to	38%
Mumbai come from Maharashtra state?	
What percentage of slum-dwellers in	85%
Dharavi Slum work there?	
State three social opportunities of	Community spirit, education for most children, flexible use of space
Dharavi Slum	and virtually no crime.
What are the challenges of disease in	Doctors deal with 4000 cases of sickness per day and there are
Dharavi Slum?	rats inside and outside homes.
State two of the issues of the informal	Unregistered companies make small profits, it's illegal, working
economy in Dharavi Slum	conditions are poor, cheap labour, no legal age for workers so
	children are also employed.
What are the 5 development points of	Health
the Slum Rehabilitation Authority?	Income
	Knowledge
	Environment
	Socia-Culture
Define conurbation.	Major high density areas (e.g. London and Greater Manchester).
Give an example.	
As of 2012, what was the population of	8.1 million
London?	
How many jobs were there in London	5,053,000
in 2012?	
What percentage of London's	36%
population is black, Asian or ethnic	
minority?	
List three opportunities in London.	Cultural mix, recreation and entertainment, employment, integrated
	transport systems and urban greening.
What is urban greening?	Increase of the amount of green spaces within a city.
List three challenges in London.	Urban decline, deprivation and dereliction.
	Inequalities in housing, education, health and employment.

	Waste disposal.
	Atmospheric pollution.
	The impact of urban sprawl on the rural–urban fringe.
	Building on brownfield and greenfield sites.
State two effects of urban sprawl.	Extra cost to the tax payer, increased traffic, health issues due to
	having to commute regularly to work, environmental issues as
	animals are displaced from their habitat, isolation as people live
	further from their neighbours.
What is the benefit of the athletes'	The athletes' village has been relaunched as a housing estate
village in the Olympic park?	where 40% will be affordable homes.
How many acres of brownfield land	560 acres
was the Olympic park built on?	
What was an environmental	Materials came from overseas
disadvantage of the Olympic park and	The games produced 3.3 million tons of CO ₂
games?	Wildlife had to be relocated
What is park and ride?	Parking your car on the outskirts of a city and take a bus to the city
	centre.
Why is the London congestion charge	Encourages people to use public transport instead of private which
sustainable?	reduces the amount of emissions from vehicles

The Changing Economic World Glossary

Key Word	Definition	Icon
Age structure	The amount of each age group in a population.	
Asylum seekers	Someone forced to leave their country e.g. over religion or politics. They seek asylum in another country and do not return to their original country.	T
Birth rate	Number of babies born per 1,000 people per year.	
Child mortality	The number of children that die under five years of age, per 1,000 live births.	*
Choropleth map	A map using one colour to show information e.g. population density. The higher categories (e.g. largest populations) are shown in a darker colour and they get lighter as the figures are reduced (e.g. smallest populations).	
Commonwealth	The voluntary association of 54 independent and equal states. Home to 2.2 billion, member states share history, language, culture and democracy.	
Death rate	Number of deaths per 1,000 people per year.	(†)
Debt crisis	A situation whereby a country cannot pays its debts, often leading to calls to other countries for assistance.	(\$)
Debt relief	When HICs write-off some LIC debt, so the LIC has less to pay back.	Deb
Dependency ratio	The balance between people who are independent (work and pay tax) and those who rely on them (children and elderly people).	
Deindustrialisation	The decline in the countries traditional manufacturing industry.	CLOSED
Demographic Transition Model	Shows population change over time and space.	1490 3 Grage 4 Grage 5 48 32 24 16 8 8 0

Development	The progress of a country in terms of economic growth, the use
	of technology and human welfare.
Development gap	The difference in standards of living and wellbeing between the world's
	richest and poorest countries (HIC versus LIC).
Economic migrant	Someone seeking to improve their standard of living by moving
	willingly from one place to another for work.
Emigrant	Someone leaving their country of residence to move to another
	country.
European Union	A group of 27 countries across Europe that work together towards a
(EU)	single market E.g. they trade as if they were one country, without any
	trade barriers.
Exponential growth	Population growth rate is constantly increasing.
Fairtrade	When producers in LICs are given a better price for the goods they
	produce. From farm products like cocoa, coffee or cotton. Better prices
	reduce exploitation.
Free trade	When trade between countries is not restricted (e.g. no / low import
	duties).
Gender structure	The balance between the number of males and females in a population.
Globalisation	Links between different countries around the world.
Gross Domestic	The total value (amount) of goods and services produced by a country
Product (GDP) per	in one year divided by its total population.
capita	~
Gross National	Measurement of economic activity that is calculated by dividing the
Income (GNI) per	gross (total) national income by the size of the population. GNI takes
capita	into account not just the value of the goods and services, but also the
	income earned from overseas.
Human Development	Measuring development using the combined data from GDP, life
Index (HDI)	expectancy and literacy rates. + Z
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Immigrant	Someone entering a new country with the intention of living there.	ST. ST. ST.
Industrial structure	The relative proportion of the workforce employed in different sectors	
	of the economy (primary, secondary, tertiary and quaternary).	
Infant mortality	The number of babies that die under a year of age, per 1,000 live	
	births per year.	(+)
Information	Computer, internet, mobile phone and satellite technologies used in a	
technologies	range of economic activities.	
Intermediate	The simple, easily learned and maintained technology used in a range	\Diamond
technology	of economic activities serving local needs in LICs.	W. C.
International aid	Money, goods and services given by one country or a multilateral	
	institution (e.g. World Bank) to help improve quality of life and	
	economy of another country.	
Life expectancy	The number of years a person is expected to live from birth.	• ÷ † † † †
Literacy rate	The percentage of adults in a country who can read and write well	
	enough to function in their job and society.	
Microfinance loans	Very small loans which are given to people in LICs to start a small	
	business.	
Migration	Movement from one place to another, with the intention of staying at	7
	least a year. This move may be within a country (national) or between	
	countries (international).	
Multiplier Effect	Initial investment and jobs lead to a knock on effect.	\sim
	This knock on effect creates more jobs and money which are then	42 1)
	reinvested.	
Natural change	The difference between birth rate and death rate.	(+)
North-South divide	Economic and cultural differences between Southern England and	10
(UK)	Northern England that relate to issues such as health and lifestyle.	

Post-industrial	The economy of countries where most employment is	
economy	now in the tertiary sector.	THAT SAFFARA
Primary industry	Economic activity related to the extraction of raw materials (e.g.	5.1
	farming, mining).	
Pull factors	The attractions and opportunities of a place that encourage people to	· /a:
	move there.	
Push factors	The negative aspects of a place that encourage people to move away.	N D
Quaternary industry	Economic activity related to technology, research and development	
	(e.g. scientific research).	
Refugee	Someone forced to leave their country due to war or famine.	A A A
	They often return to their own country once the war or famine is over.	
Science and	Purpose built office areas at the edge of a city where high tech, large	H.
business parks	scale complexes can be built often in co-operation with a university.	
Secondary industry	Economic activity related to making goods (e.g. car industry).	
Tertiary industry	Economic activity that provides a service (e.g. teacher, doctor,	60
	supermarket worker).	Vs
Trade	The buying and selling of goods and services between countries.	Dillow Dillow
Transnational	A large and wealthy corporation or enterprise (business).	M S F A B B
Corporation (TNC)	Headquarters are in one country and they have many other	Google
	branches spread across the world.	Cola Com

The Changing Economic World Pop Quiz

List three things that can be	GNI per capita, Human Development Index, birth rates, death rates, infant
used to measure development.	mortality, people per doctor, literacy rate, access to safe water, life
	expectancy.
What is the North-South Divide?	An economic division between the wealthy developed countries (the North)
	and the poorer developing countries (the South).
What is the difference between	First World countries are the richer, democratic and industrialised countries
First and Second World	and Second World are often communist countries.
countries?	and Second World are often communist countries.
	Devorte and lead to recent
What is the poverty trap?	Poverty can lead to poverty.
	Low investment in infrastructure (e.g. roads, rail), education and healthcare
	can exacerbate (make worse) poverty and keep countries at a low level of
	development.
List two consequences of	More international migration, lack of social opportunity, a lower growth of
uneven development.	wealth, political instability and billions of people live in poverty.
What does a population	A population pyramid shows the age and gender structure for an area or
pyramid show?	country.
How does the DTM show	Change over space (a number of countries can be in different stages).
population change?	Change over time (a country will progress through the stages).
What happens in the second	Birth rate remains high and death rate decreases rapidly.
stage of the DTM?	Total population increases.
State three ways of reducing	Investment and industrial development, aid, intermediate technology, free
global inequalities.	trade, fair trade, debt relief and microfinance loans.
What are microfinance loans?	Very small loans which are given to people in LICs who would otherwise not
	have access to finance. This would help people start up businesses.
How much of Kenya's GDP	8.8%
comes directly from tourism?	
How are NEEs different from	They no longer rely primarily on agriculture and have made gains in
LICs?	infrastructure and industrial growth, and are experiencing increasing incomes
	and high levels of investment.
Where is Nigeria located?	West Africa.
How many people in Nigeria live	Approximately 60 million.
below the poverty line?	
What are two limits to growth in	Poor infrastructure, barriers to exports, lack of financial services for
Nigeria?	independent small/medium businesses and an unstable government.
Why do TNCs have factories in	To take advantage of cheap labour, lower environmental standards and
poorer countries?	lower raw material costs.

What is the negative effect of	Many of them live without electricity or running water, and see none of the oil
Shell extracting oil on the Ogoni	profits, instead having to live with the poisoning of land and water from
people?	pipelines, oil spills and gas fires.
What percentage of Nigeria's	75%
economy is oil revenue?	
State three areas in which UK	Governance, wealth creation, health, education, water and sanitation and
aid money was spent in Nigeria	poverty and vulnerability.
Why has the UK's economic	Globalisation, deindustrialisation, government policies and decline in
structure changed?	resources.
What is a science park?	Scientific research and development are carried out close to university.
What is the aim of the HS2?	Reduce journey times between the cities in Northern England and to London.
	The idea is that businesses will function better with less loss of time spent
	travelling.
	100.000
How many jobs is the HS2	100,000
expected to create?	
How expensive is the HS2	£106bn
expected to be?	
What is the Northern	Linking of northern cities to match, rival and compete with the economic
Powerhouse?	muscle of London.
What is the Commonwealth?	An intergovernmental organisation of 53 countries that were mainly territories
	of the British Empire. They are linked together by history, culture, language
	and 3 shared values: democracy, human rights and the rule of law.
What is the European Union?	The European Union is a group of 27 countries that have common goals and
	close ties to one another. The UK withdrew on the 31st January 2020.

The Challenge of Resource Management Glossary

Key Word	Definition	Icon
Agribusiness	Application of business skills to farming (e.g. large scale production methods).	
Biomass	Renewable organic materials (e.g. wood, agricultural crops or waste) used as a source of fuel.	
Carbon footprint	The amount of carbon emissions generated by human activity (e.g. travel and a demand for out of season foods like strawberries in winter).	CO ₂ :
Economic wellbeing	Measure of how much money people have to sustain their standard of living.	\$
Energy conservation	Reducing energy consumption through using less energy.	4
Energy exploitation	Developing the use of energy for profit.	\$
Energy mix	The range of energy sources used by a region or country, the mix may be both renewable and non-renewable. Solar Wind Geo Hydro	Bio Tide
Energy security	Uninterrupted availability of energy sources at an affordable price.	
Famine	Extreme and widespread scarcity of food.	7
Food insecurity	Being without reliable access to a sufficient quantity of affordable, nutritious food.	
Food miles	The distance that food items travel from.	98883000
Food security	When people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life.	
Fossil fuels	A natural fuel (e.g. coal, oil or gas) formed in the geological past from the remains of living organisms.	

Fracking	The process of injecting liquid at high pressure into rocks to force open	A
	existing cracks and extract oil or gas.	8
		377
Geothermal energy	Energy generated by heat stored deep in the earth.	3

Hydroelectric power	Electricity generated by turbines, driven by moving water.	,,, \$\$\$\bar{\}\$
Local food sourcing	Food produced and distributed locally.	77
		A
Nuclear power	Energy released by nuclear reactions. From mined and processed	~
	uranium, it creates heat energy, making steam and generating	188
	electricity.	\ <u>4</u>
Organic	A method where food is produced using environmentally friendly	
produce	farming with no chemicals	
	Food produced in this way is free from synthetic additives and	
	pesticides.)
Renewable energy	A resource which is not diminished when it is used.	*
Resource	The control and monitoring of resources so that they do not become	
management	depleted or exhausted.	R
Social wellbeing	The social condition of an individual or group.	
Solar energy	The suns light energy collected by solar panel cells to heat water or air,	. Δ .
	generating electricity.	$\triangleleft \bigvee_{\sim} \bigvee_{\sim} \triangleright$
Sustainable	Development that meets the needs of the present without limiting the	
development	ability of future generations to meet their own needs.	
Undernourishment	Having insufficient food or other substances for good health and condition.	
Wind energy	Electrical energy obtained from harnessing the wind with windmills or	- Company
willa chergy	wind turbines.	
		4

The Challenge of Resource Management Pop Quiz

What is social well-being?	The social condition of an individual or group (often related to economic,
	psychological, spiritual or medical issues).
What is economic well-being?	A measure of how much money people have to sustain their standard of
	living.
How can poor water quality	Poor water quality can lead to disease, which weakens people and therefore
affect economic well-being?	has a direct impact on their productivity and hence economic development.
What is agribusiness?	The application of business skills to agriculture or food production. Farms are
	run as big businesses to increase food production by using lots of inputs such
	as fertilisers or labour-saving machines.
What are water transfer	These make up for water shortages by transporting water from one area to
schemes?	another.
Give an example of a UK water	Kielder Water - Water is trapped behind a dam in north-west Northumberland
then moved into the River Derwent, River Wear and River Tees to	
	major settlements along the north-east coast.
State two ways that the UK	Educating people, putting in laws and legislation, treating our water and
government attempt to combat	improving our water courses.
water pollution	
What are the concerns over	Water contamination, increased water use and small earthquakes being
fracking?	triggered.
State one main issue with	Damage to the natural environment during extraction
fossil fuel use	Production of pollutants during burning such as CO2
	Dust which is hazardous to human health
	Sulphur dioxide which contributes to acid rain
Which continent produces the	Asia
most food?	
What does NEE stand for?	Newly Emerging Economies (e.g. China or India)
Give an example	
State three things that can	Climate, technology, pests and diseases, water stress, conflict.
affect food supply	
State three causes of soil	Deforestation, overgrazing of animals and over-cultivation.
erosion	

State three strategies to	Irrigation, aeroponics, hydroponics, use of biotechnology, appropriate
increase food supply	technology.
What is the bountit of moldon	Decade legislary sitemain A in their traditional diet can make the vitemain if they
What is the benefit of golden	People lacking vitamin A in their traditional diet can make the vitamin if they
rice?	eat genetically modified 'golden' rice.
What is an advantage of the	It helps cut energy costs.
weather in Almeria to	
greenhouse technology?	
Why do migrants from North	There are large amounts of cheap temporary labour available to help in the
Africa and Eastern Europe go	greenhouse farms.
to Almeria?	
State one way that organic	Reduces food production intensification allowing the land to "rest"
farming is sustainable	Encourages a local approach
	Artificial fertilisers are largely banned
	Farmers develop fertile soil by rotating crops and using compost, manure
	and clover
	Strict regulations define what organic farmers can and can't do
	Uses biological pest control rather than pesticides
How does rice-fish agriculture	Rice is grown in flooded paddies with deeper water either side for fish.
work?	
Why is a net stretched over a	To keep out predator birds.
rice-fish farm?	
Why do rice-fish farms have	To keep water in place.
bunds?	
State two ways rice-fish	Selling rice and fish enable families to afford better food at markets.
farming has helped families in	Selling rice and fish enable families to send their children to school.
Jamalpur, Bangladesh	2. Coming free and non-chaple farmines to soria their children to soriou.

Wider reading list

These are some suggestions of useful books to read to further your understanding of the topics you are studying this year.

Please let your geography teacher know if you read any these or if you come across any other great geography books we can add to the list.

Urban environments:

<u>Author</u>	<u>Title</u>	<u>Type</u>
Mike Davis	Planet of Slums	Non-fiction
Robert Neuwirth	Shadow Cities: A Billion Squatters	Non-fiction
Danny Dorling	Population 10 Billion	Non-fiction
Sarah Harper	How Population Change will Transform our World	Non-fiction
Philip Steele	Population: Are there too many of us?	Non-fiction
Lonely Books	The Cities Book	Non-fiction
Andy Mulligan	Trash	Fiction
Gillian Cross	In the Sea there are Crocodiles	Fiction
Jon Walter	Close to the Wind	Fiction
Sarah Crossan	The Weight of Water	Fiction
Floella Benjamin	Coming to England	Fiction

Changing economic world:

<u>Author</u>	<u>Title</u>	<u>Type</u>
UN Publications	The Sustainable Development Goals	Non-fiction
Guy Fox	How the World Really Works: The Economy	Non-fiction
Elena Fernandez Prados	Economics through Everyday Stories from Around the World	Non-fiction
Gillian Cross	In the Sea there are Crocodiles	Fiction
Jon Walter	Close to the Wind	Fiction
Sarah Crossan	The Weight of Water	Fiction
Floella Benjamin	Coming to England	Fiction
Scott Westerfeld	Uglies	Fiction
Susin Nielsen	No Fixed Address	Fiction
Polly Ho-Yen	Boy in the Tower	Fiction
Gemma Malley	The Declaration	Fiction

Challenge of resource management:

<u>Author</u>	<u>Title</u>	<u>Type</u>
Carolyn Steel	Hungry City: How food shapes our lives	Non-fiction
Mark Winne	Closing the Food Gap: Resetting the table in the	Non-fiction
	land of plenty	
Mike Burners-Lee	The Burning Question: We can't burn half the	Non-fiction
	world's oil, coal and gas. So how do we quit?	
Philip Steele	Water: Is there enough for everyone?	Non-fiction
Cameron Stracher	The Water Wars	Fiction