

Geography Department

GCSE Geography Challenges in the Human Environment

Core Knowledge

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Teacher:

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Urban issues and

<u>challenges</u>

Urbanisation

<u>Mumbai</u>

<u>London</u>

Sustainable living

Urbanisation glossary:

Keyword	Definition	Icon
Birth rate	Number of babies born per 1000 of the population per year.	
Choropleth map	A map using shades of colour to show information.	
	The higher categories (e.g. largest populations) are	
	shown in a darker colour and they get lighter as the figures	V 🐴
	are reduced (e.g. smallest populations).	
Death rate	Number of people dying per 1000 of the population per year.	(+)
Economic	Chances for people to improve their wealth through employment.	×
opportunities		\$
Inequalities	Differences between poverty and wealth.	
	Can occur in housing quality, access to services	
	(jobs, education, healthcare), access to open land and safety.	
Infant mortality	The number of babies that die under a year of age, per 1000 live births	\frown
	per year.	(+
International	Value globally.	
importance		55
Life expectancy	The number of years a person is expected to live from birth.	◎ ☆ † † † †
Megacity	An urban area with a total population of ten million or more people.	
Migration	When people move from one area to another to stay.	7
	In many LICs people move from rural to urban areas (rural-urban	ý S
	migration).	
Natural decrease	The death rate is higher than the birth rate.	Į
Natural increase	The birth rate is higher than the death rate.	Î
National	Value within a country.	and the second sec
importance		
Pollution	Harmful effects on the environment from chemicals, waste and	12 11
	emissions.	
	Pollution comes in several forms; light, noise, air, soil, water	

Pull factors	Positive aspects attracting people to an area.	
Push factors	Negative aspects of where people currently live making them want to leave.	
Regional importance	Value within a small area of a country (e.g. Norfolk).	
Rural	Countryside.	
Social opportunities	Chances for people to improve their quality of life. For example, better education and health care	
Urban	Town / city.	when the large
Urbanisation	Increasing percentage of people living in a town or city. For example, due to migration and natural increase	r

Urbanisation quiz questions:

Define birth rate.	Number of babies born per 1000 of the population per year.
Define death rate.	Number of people dying per 1000 of the population per year.
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.
Give two pull factors	Better job opportunities, good availability of education and health
	care, safe area
What is the difference between a rural	Rural is countryside whereas urban is a built up area (town/city)
and urban area?	
What happens to population if the birth	Natural increase (population goes up)
rate is higher than the death rate?	
What happens to population if the	Natural decrease (population goes down)
death rate is higher than the birth rate?	
What are the 3 root causes of	Migration
urbanisation?	High birth rate and decreasing death rate

<u>Mumbai glossary:</u>

Keyword	Definition	Icon
Economic	Chances for people to improve their wealth through employment.	X
opportunities		\$
Formal economy	Working to receive a regular wage and working rights (e.g. paid	P 51
	holidays, sick leave).	
Inequalities	Differences between poverty and wealth.	
	Can occur in housing quality, access to services	
	(jobs, education, healthcare), access to open land and safety.	
Informal economy	Working without a regular wage or access to working rights (e.g. paid	2
	holidays, sick leave).	
Megacity	An urban area with a total population of ten million or more people.	
Migration	When people move from one area to another to stay.	
	In LICs people move from rural to urban areas (rural-urban migration).	
Natural increase	The birth rate is higher than the death rate.	Î
Pull factors	Positive aspects attracting people to an area.	
Push factors	Negative aspects of where people currently live making them want to	0
	leave.	
Sanitation	Measures designed to protect health.	*
	For example, providing clean water and disposing of waste.	
Slum	An area of poor-quality, high density housing lacking in basics such as	Ï
	fresh water supply and sewers.	19
Social deprivation	When an area does not have certain services essential for	
	a healthy life.	Sale /a
	For example, decent housing and disposal of sewage / waste	a a a
Social	Chances for people to improve their quality of life.	
opportunities	For example, better education and health care	
Urban	Town / city.	unter dista
Urbanisation	Increasing percentage of people living in a town or city.	
	For example, due to migration and natural increase	

Mumbai quiz questions:

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
Dharavi Slum?	Rats
	Lack of sanitation
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.

London glossary:

Keyword	Definition	Icon
Brownfield site	Land that has been previously built on but is now disused.	
Decentralisation	The movement of businesses away from city centres into	
	retail parks in the suburbs.	
	For example, out of town shopping areas (Longwater, Norwich)	
Deindustrialisation	The decline in manufacturing industry.	CLOSED
Dereliction	Abandoned buildings and wasteland.	
Greenfield site	Land that has not been built on before.	
Inequalities	Differences between poverty and wealth.	
	Can occur in housing quality, access to services	
	(jobs, education, healthcare), access to open land and safety.	
Integrated	Multiple transport systems are connected, making travel easier.	ata 🥠
transport	One aim is to enable people to switch from private car transport	
	to a more sustainable option.	3
Migration	When people move from one area to another to stay.	7.0
	In many LICs people move from rural to urban areas (rural-urban	S
	migration).	
Pollution	Harmful effects on the environment from chemicals, waste and	5a 1
	emissions.	ш
	Pollution comes in several forms; light, noise, air, soil, water	
Pull factors	Positive aspects attracting people to an area.	
Push factors	Negative aspects of where people currently live making them want to	0
	leave.	
Rural	Countryside.	
Rural-urban fringe	Transition between a city and the countryside.	Urban Core
	It has a range of land uses including out-of-town shopping centres,	
	golf courses, farmland and motorways.	Rate Frings
Social	Chances for people to improve their quality of life.	
opportunities	For example, better education and health care	

Traffic congestion	Too many vehicles on the roads which causes traffic jams.	
Urban	Town / city	un diale.
Urbanisation	Increasing percentage of people living in a town or city.	*
	For example, due to migration and natural increase	ſŴĨĨĴ'n
Urban greening	Increase of green spaces within a town / city.	Entre
	For example, addition of green roofs, green walls and	mark mars
	parks / gardens.	AND MAD
Urban regeneration	Revival of older parts of an urban area.	
	For example, modernising old buildings (renovation) or demolishing	
	buildings (redevelopment).	
Urban sprawl	The expansion of urban areas into the surrounding countryside.	КЛ
		K N

London quiz questions:

Define conurbation.	Major high-density areas (e.g. London and Greater Manchester).
Give an example.	
As of 2021, what was the population of	8.8 million
London?	
How many jobs are there in London?	5.8 million
What percentage of London's	46%
population is non-white?	
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.
	Inequality.
	Waste disposal.
	Pollution.
	Urban sprawl.
	Using 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

Sustainable living glossary:

Keyword	Definition	lcon
Conservation	Prevent wasteful use of a resource.	
Energy efficiency	The use of less energy to perform the same task / produce the same end result.	Ļ
Pollution	Harmful effects on the environment from chemicals, waste and emissions.Pollution comes in several forms; light, noise, air, soil, water	
Traffic congestion	Too many vehicles on the roads which causes traffic jams.	
Ultra-Low Emission Zone (ULEZ)	Charge to high emission vehicles travelling anywhere in London.	
Urban greening	Increase of green spaces within a town / city.For example, addition of green roofs, green walls and parks / gardens.	
Urban sustainability	Meet the needs of today, without having a negative impact on future generations. For example, environmental protection, social development and economic growth	
Waste recycling	Reprocessing waste materials into new products.	

Sustainability quiz questions:

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
What does ULEZ stand for?	Ultra-low emission zone
What is the purpose of the ULEZ?	To charge to high emission vehicles travelling anywhere in London
What are Santander Cycles?	Public bike hire scheme in London

The Changing

Economic

World

Development

Nigeria

UK

Development glossary:

Key Word	Definition	lcon
Birth rate	Number of babies born per 1000 of the population per year.	
		- 0
Child mortality	The number of children dying before the age of 5 per 1000	257-
	populaion per year.	
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).	
Death rate	Number of deaths per 1000 of the population per year.	
		+
Debt relief	When HICs write-off some LIC debt, so the LIC has less to pay back.	- 12
	This means LICs can concentrate on their own development.	Deb
		De
Dependency ratio	The balance between working population and non-working population	1 30 30
	(children and elderly people).	AFATA
		000000
Demographic	Graph showing population change over time and space.	Nage 3 Diage 4 Shige 8
Transition Model	Change over space (a number of countries can be in	
	different stages).	
	Change over time (a country will progress through the	
	stages).	
Development	The improvement of a country in terms of economic growth and	$\sim \sim$
	social welfare.	Ŭ j 🗌 🗌
Development gap	The difference in standards of living between the world's richest and	9
	poorest countries (HIC versus LIC).	AT THE
Development	A measure of quality of life in country.	streteroay acto
indicators		Contract of the second s
Economic migrant	Someone seeking to improve their standard of living by moving	8 8
	willingly from one place to another for work.	
		Ψ́Λ
Emigrate	Leaving a country to move to another.	15th
		05
		2 - S

Exponential growth	Population growth rate is constantly increasing.	
Fairtrade	When producers in LICs are given a guaranteed price for what they	8
	produce.	
Free trade	When trade between countries is unrestricted.	
	Removal of taxes, tariffs and quotas which would otherwise restrict	and the second
	trade	
Gross Domestic	The total value of goods and services produced within the borders of a	0
Product (GDP)	country.	£
Gross National	The wealth of a country, regardless of where it is earned.	•
Income (GNI)	For example, a British factory in China would create wealth towards	£
	UK GNI	~
HIC	High income country (e.g. UK).	
		T
Human Development	A composite measure using GDP, life expectancy and literacy rates.	•••
Index (HDI)	© ÷ † † ¶	
Immigrate	Moving into a country	R.E.
		05
		313
Infant mortality	The number of babies that die under a year of age, per 1000 live births	
	per year.	(+)
		\Box
Intermediate	The simple, cheap and sustainable technology used to promote	$\wedge \wedge$
technology	development in LICs.	× ž
(appropriate tech)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
International aid	Money, goods and services given by one country or an institution (e.g.	
	World Bank) to help improve quality of life and economy of another	*
	country.	
International	Global value.	A CONTRACTOR
importance		5
LIC	Low-income country (e.g. Kenya).	
-		
Life expectancy	The number of years a person is expected to live from birth.	
• •		0 ÷ † † T T T
Literacy rate	The percentage of adults in a country who can read and write.	
Microfinance loans	Very small loans which are given to people in LICs to start a business.	

Migration	Movement from one place to another to stay.	7
	This may be within a county (regional), country (national) or between countries (international).	
Multiplier effect	Initial investment and jobs (or lack of) that lead to a positive or negative cycle. <i>This creates more jobs and money which are then reinvested.</i>	
Natural change	The difference between birth rate and death rate to determine population increase or decrease.	
National importance	Value within a country.	The State
NEE	Newly emerging economy (e.g. Nigeria).	\rightarrow
Population pyramid	Graph showing the distribution of age and gender in a country.	
Poverty trap	Poverty leads to poverty.	
Refugee	Someone forced to leave their country (due to war, famine, natural disaster).	
Regional importance	Value within a small area of a country (e.g. Norfolk).	
Tertiary industry	Providing a service (e.g. teacher, doctor, supermarket worker).	С.
Tourism	Travel for pleasure.	eler
Trade	The buying and selling of goods and services between countries.	
Transnational Corporation (TNC)	A large business operating in more than one country. Headquarters in one country with many other branches (offices and factories) spread across the world.	Coogle

Development quiz questions:

List three things that can be	GNI/GDP per capita, Human Development Index, birth rates, death rates,
-	
used to measure development.	infant mortality, people per doctor, literacy rate, access to safe water, life
	expectancy.
What is the poverty trap?	Poverty leads 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 given to people in LICs to help start up a business.
How much of Kenya's GDP	8.8%
comes directly from tourism?	

Nigeria glossary:

Key Word	Definition	lcon
Development	The improvement of a country in terms of economic growth and	\sim
	social welfare.	
Economic migrant	Someone seeking to improve their standard of living by moving	8.8
	willingly from one place to another for work.	ų Λ
Gross Domestic	The total value of goods and services produced within the borders of a	0
Product (GDP)	country.	£
Gross National	The wealth of a country, regardless of where it is earned.	
Income (GNI)	For example, a British factory in China would create wealth towards UK GNI	£
Industrial structure	The proportion of the workforce employed in different sectors of the	
	economy (primary, secondary, tertiary and quaternary).	
International aid	Money, goods and services given by one country or an institution (e.g.	
	World Bank) to help improve quality of life and economy of another	-
	country.	
Migration	Movement from one place to another to stay.	
	This may be within a county (regional), country (national) or between	9
	countries (international).	
Multiplier effect	Initial investment and jobs (or lack of) that lead to a positive or	\sim
	negative cycle.	
	This creates more jobs and money which are then reinvested.	
Natural change	The difference between birth rate and death rate to determine	
	population increase or decrease.	
Primary industry	Extraction of natural resources (e.g.farming, fishing, mining).	₹ Ţ
Quaternary industry	Economic activity related to technology, research and development.	
Secondary industry	Making goods <i>(e.g. food processing).</i>	
Tertiary industry	Providing a service (e.g. teacher, doctor, supermarket worker).	Ŷ
Transnational	A large business operating in more than one country	M B # AN II -
Corporation (TNC)	Headquarters in one country with many other branches (offices and	Coogle
	factories) spread across the world.	Cela 🖂 ざ

Nigeria quiz questions:

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	Cheaper labour, lower environmental standards and lower raw material
poorer countries?	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.

<u>UK glossary:</u>

Key Word	Definition	Icon
Commonwealth	The voluntary group of 56 independent and equal states.	
	Home to 2.2 billion, member states share history, language, culture	(B)
	and democracy.	
Deindustrialisation	The decline in manufacturing industry.	CLOSED
European Union	A group of 27 countries across Europe that work together.	***
(EU)	They trade as if they were one country, without any trade barriers.	* * * * _ * *
Globalisation	Links between different countries around the world.	
Gross Domestic	The total value of goods and services produced within the borders of a	C
Product (GDP)	country.	た
Gross National	The wealth of a country, regardless of where it is earned.	0
Income (GNI)	For example, a British factory in China would create wealth towards	£
	UK GNI	
Industrial structure	The proportion of the workforce employed in different sectors of the	
	economy (primary, secondary, tertiary and quaternary).	
Information	Computer, internet, mobile phone and satellite technologies.	رتص
technologies		
Infrastructure	Basic structure and facilities to support industry.	
Intermediate	The simple, cheap and sustainable technology used to promote	\land
technology	development in LICs.	\sim
(appropriate		~
technology)		
North-South divide	Economic and social differences between Southern England and	3
(UK)	Northern England that relate to issues such as health and quality of	
	life.	
Post-industrial	The economy of countries where most employment is	@]
economy	in the tertiary sector.	TATIVE CATRON
Primary industry	Extraction of natural resources (e.g.farming, fishing, mining).	N/L

Quaternary industry	Economic activity related to technology, research and development.	
Science and	Purpose built office areas at the edge of a city where high tech, large	H.
business parks	scale complexes can be built.	A A
Secondary industry	Making goods (e.g. food processing).	
Tertiary industry	Providing a service (e.g. teacher, doctor, supermarket worker).	Ŷ
Trade	The buying and selling of goods and services between countries.	

UK quiz questions:

What is the North-South Divide?	An economic division between the wealthy developed countries (the North)
	and the poorer developing countries (the South).
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.
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 56 countries linked together by history,
	culture, language and democracy
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 31 st January 2020.
	I

The Challenge of

<u>Resource</u>

<u>Management</u>

Energy

Food

<u>Water</u>

Key Word	Definition	Icon
Carbon footprint	The amount of carbon emissions generated by human activity.	C0, F
Demand	Consumer desire to purchase a good or service.	SUPPLY
Economic wellbeing	Measure of how much money people have to sustain their standard of living.	Ś
Inequalities	Differences between poverty and wealth.	
	Can occur in housing quality, access to services	
	(jobs, education, healthcare), access to open land and safety.	
Poverty	Being extremely poor.	
Quality of life	The wellbeing of individuals or groups of people.	e
Resource	The control and monitoring of resources so that they do not become	
management	depleted or exhausted.	Q
Standard of living	The level of wealth, comfort and necessities available to an	
	individual or group of people.	
Supply	The availability of a good or service.	SUPPLY DEMAND
Sustainable	Development that meets the needs of the present without limiting the	
development	ability of future generations to meet their own needs.	

Key Word	Definition	Icon
Biomass	Organic materials (e.g. wood, crops or food waste) used as a source of	Store.
	fuel.	
Domestic supply	Supplies required by people.	
Energy	Saving energy.	
conservation	(by reducing consumption)	
Energy exploitation	Developing the use of energy for profit.	\$
Energy mix	The variety of energy sources used by a	
	Country.	F 🧼 🌺
	Solar Wind Geo Hyd	ro Bio Tide
Energy security	Uninterrupted availability of energy sources at an affordable price.	WHY.
Fossil fuels	A natural fuel (e.g. coal, oil or gas) formed from the remains of living	
	organisms.	
Fracking	Injecting liquid at high pressure into rocks to force open existing cracks	
	to extract oil or gas.	372
Geothermal energy	Earth's underground natural heat energy.	
Hydroelectric power	Energy from moving water.	
Non-renewable	A resource that will run out.	
energy	Finite meaning it will not be replenished fast enough to meet demand	
Nuclear power	Energy released by nuclear reactions.	
	Using mined uranium to create heat energy thus making steam and	THE C
	generating electricity.	
Renewable energy	A resource which is not diminished when it is used.	
Solar energy	The suns energy absorbed by solar panels to heat water or air or	
	generate electricity.	
Wind energy	Energy obtained by the movement of air passing over turbines.	<u> </u>

Energy resources quiz questions:

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		
Why is it important to have a	Renewable infrastructure not as established as non-renewable		
varied energy mix?	Renewable energy does not always provide a consistent amount of energy		
	Conflict may restrict use of imported non-renewable energy		

Water resources:

Key Word	Definition	Icon
Eutrophication	Excess nutrients in a lake / river causing denser plant growth.	
Groundwater	Water held underground.	
Quality	The standard of something (e.g. water).	С
Reservoir	A large natural or artificial lake used to supply water.	
Sewage	Waste water. Contains faeces and dirty water	
Surface runoff	The flow of water over the Earth's surface.	
Water deficit	Water demand exceeds the amount of water available (supply).	\bigcirc
Water pollution	Harmful substances contaminate waterways.	
Water surplus	Available water (supply) exceeds demand.	
Water table	The level below which the ground is saturated.	water table
Water transfer	Transporting water to maintain supply.	

Water resources quiz questions:

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 are water transfer	Transporting water to maintain supply
schemes?	Moved from an area of surplus to an area of deficit.
Give an example of a UK water	Kielder Water
transfer scheme	Water is trapped behind a dam in north-west Northumberland then used to supply the 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 attempts to	improving our water courses.
combat water pollution	
Which part of the UK tends to have a water surplus?	North west
Which part of the UK tends to have a water deficit?	South east

Food resources:

Key Word	Definition	lcon
Aeroponics	A nutrient rich mist applied to plant roots hanging in the air.	· · · · · · · · · · · · · · · · · · ·
Agribusiness	Application of business skills to farming.	
Appropriate	Technology best suited to the needs, skills, knowledge and wealth.	$\otimes \otimes$
technology	Important in LICs	Ĩ,
Biotechnology	Use of biological technology to create better versions.	6 7
Famine	Extreme and widespread scarcity of food.	Ĩ
Fertilisers	Chemical added to soil to improve fertility	ERTUISED

Food insecurity	Being without reliable access to a sufficient quantity of affordable,	
	nutritious food.	
Food miles	The distance food items travel from where they are produced to where they are eaten.	20000000
Food security	When people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life.	
Hydroponics	Growing plants in a nutrient rich solution rather than soil.	444
Irrigation	The supply of water to land. Can be spray, drip or flood irrigation	
Local food sourcing	Food produced and distributed locally.	₫₹
Malnourishment	Lack of proper nutrition. Can be caused by not having enough to eat or not eating a balanced diet	
New green revolution	The use of modern technology (e.g. biotechnology) and traditional knowledge to improve crop yields.	
Organic farming	Food is produced using environmentally friendly farming with no chemicals.	
Permaculture	Creating sustainable and self-sufficient food supply.	
Pesticides	Substance used to destroy pests.	
Pests	An unwanted organism causing damage to crops.	
Social unrest	People expressing anger.	
Sustainable fish	Not depleting fish stocks or causing environmental damage through fishing.	

Sustainable meat	Animals raised with humane welfare standards.	CERTIFIED STANDARDS
Symbiotic	Mutually beneficial relationship between two organisms.	10
	Rice and fish have a symbiotic relationship	X 🖕
Urban farming	Growing space within town and cities.	
	Examples include allotments and roof top farms	
Undernourishment	Having insufficient food or other substances for good health and	600
	condition.	-

Food resources quiz questions:

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.
Which continent produces the	Asia
most food?	
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.
How does the use of	Protects crops from the harsh climate (heat, desert region, wind)
greenhouses help crop growth	
in Almeria?	
Why do migrants from North	Large amounts of cheap labour available in the greenhouse farms.
Africa and Eastern Europe go	
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

How does rice-fish agriculture work?	 Strict regulations define what organic farmers can and can't do Uses biological pest control rather than pesticides Rice is grown in flooded paddies with deeper water either side for fish.
Why is a net stretched over a rice-fish farm?	To keep out predator birds.
Why do rice-fish farms have bunds?	To keep water in place.
State two ways rice-fish farming has helped families in Jamalpur, Bangladesh	 Selling rice and fish enable families to afford better food at markets. Selling rice and fish enable families to send their children to school.

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:

Author	Title	Туре
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:

Author	Title	Туре
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:

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