Resources in the UK

Food, water and energy are essential resources

Food	Water	Energy
People must be able to access the	People need clean safe water with	This is needed for industry and
right nutrition to avoid becoming	sanitation to avoid pollution. Without	transport to allow the economy to
malnourished. With out enough food	this people will become ill from water	function and people earn a living.
there will be famine.	borne diseases.	

HICs have a high consumption of resources due to their higher standards of living and ability to afford resources. Resource consumption in **NEEs is rapidly growing** as they develop. Resource consumption in **LICs is low** as they cannot afford resources.

Food in the UK	Water in the UK	Energy in the UK	
Our demand for food is growing.	Demand for water across the UK	Our energy mix is changing	
In the UK we want out of season food	We are demanding more water in	We are moving from a high reliance on	
all year. We also want exotic foods	the UK due to increase in population	fossil fuels, particularly coal and oil to	
such as fruits and spices.	and time saving devises such as	more use of renewables and nuclear.	
We are importing more food from	washing machines. The north and		
overseas.	west have high rainfall and low		
	population leading to a surplus.		
	However, the south east has low		
	rainfall and high population leading		
	to a deficit.		
More popular foods	Causes of water pollution	Our fossil fuels are running out	
Seasonal produce is becoming more	Water can be polluted by chemicals	We are using up north sea oil and gas	
popular and people will now try to buy	from farming, vehicles, run off from	reserves and due to the recent war in	
local to reduce their carbon footprint.	factories and oil spills from boats and	Ukraine are looking to reduce our	
Organic food is also becoming more	traffic.	reliance on fossil fuels. People are also	
popular as people don't want		increasingly worried about climate	
chemicals and pesticides getting into		change and the impact on the	
rivers and food chains damaging		environment.	
wildlife and ecosystems.		The government is considering	
		increasing fracking for shale gas	
The carbon footprint of food.	Managing water pollution	Economic issues with energy	
Food is releasing more and more CO2	We can manage pollution through	Extracting fossil fuels is expensive and	
due to increased food miles (as it is	water treatment and improved	the cost is increasing as they are used	
transported further), more processing	drainage. We can also introduce laws	up.	
in factories and increased packaging	and education campaigns to keep	Costs of nuclear and renewable are high	
and waste.	rivers clean.	for the consumer.	
As people become more concerned		Money is needed for research and	
about this they are more likely to buy		investment in alternative energy.	
food locally to reduce the CO2.		We need to pay to import energy.	
Industrialised – agribusiness	Water transfer	Environmental issues with energy	
This is large scale farming to make lots	Water is transferred from areas of	Burning fossil fuels releases CO2.	
of profit. Hedges are cut down to	surplus to areas of deficit. However,	Fracking can pollute groundwater and	
increase filed size and many chemicals	this can be expensive , impact	cause earthquakes.	
and fertilisers used to produce as many	wildlife and lead to political issues.	Accidents such as oil spills can release	
crops as possible. There is also lots of		chemicals into the environment.	
machinery used reducing the need for		Windfarms and tidal projects can	
farm workers. This helps to give us		damage wildlife.	
large quantities of cheap food.		Power stations and wind farms can be	
		an eyesore.	

Global Demand for Food

Global food supply is uneven	We are consuming more food globally
North America and East Asia produce lots of food.	The global population is increasing.
Central America and Africa only produce small amounts	As countries become wealthier they have more money to
of food.	spend on food and so buy more. Wealthy countries eat
Calorie intake is high in HICs as people can afford to buy	more meat which consumes more resources.
more food. They have food security. It is increasing in	Countries can also afford to import more seasonal food.
NEEs as people become wealthier. It is low in LICs as	Industrialisation makes food cheaper to produce.
people cannot afford much food. They are food insecure.	
Issues affecting food supply	Impacts of food insecurity
Climate – it can be too hot or dry to produce food.	Famine – serious lack of food over a wide area which can
Extreme weather affects food supply.	lead to starvation and death.
Water stress – Areas with little rain struggle to produce	Undernourishment – this means people are unable to
food.	stay healthy due to poor diet.
Pests and diseases – locust swarms will eat crops and	Soil erosion – soil is over cultivated and over grazed
disease can also wipe out crops.	leaving it exposed to wind and rain and it's worn away.
Poverty – means people can't afford fertilizer or	Rising Prices – if there isn't enough food available the
pesticides. They can't import food.	price will go up, meaning people can't afford it.
Conflict – damages land and causes farmers to flee.	Social Unrest – If people can't access food this can lead
Technology – mechanization makes farming more	to riots, protest and looting. It can even contribute to civil
efficient and technology can produce better plants so we	war.
can generate more food.	
Lancas de Caral de de de la labora	

Increasing food production globally

Irrigation – This is when the land is watered artificially using pipes and sprinklers from rivers and canals to help more crops grow in the area. Channels can be dug to store water.

Hydroponics and Aeroponics – This is an intensive form of high technology agriculture where plants are grown in test tubes of nutrient rich water or sprayed with nutrient rich mist to grow in the air. It is very expensive but increases food production.

Biotechnology – This is when crops are genetically modified so that they can survive more harsh conditions or grow faster or produce more fruit which helps to increase yields of crops.

The New Green Revolution – This is the increased use of mechnianisation and better farming methods such as seeds and fertilisers in African countries which helps them to produce more food.

Appropriate Technology – This is when farmers in poorer countries are given cheap easy to use technology which helps them to produce more food, such as simple hand ploughs or a bicycle wheel to remove coffee bean husks.

Sustainable food

Organic Farming – This is farming without the use of chemicals or pesticides which means that rivers do not become polluted of ecosystems damaged and disrupted.

Permaculture – This is producing food in a natural way as natural ecosystems so that soil, water and other wildlife doesn't become damaged. It includes mixed cropping and using natural predators.

Urban Farming Initiatives – This is farming in urban areas on disused land or on rooftops, this makes food accessible and affordable for some of the poorest in the city.

Fish and Meat from sustainable sources – This is making sure that we don't over fish the oceans we can use farmed fish instead and that animals are raised in a way that is environmentally friendly such as eating grass and not putting too many on the land so it can't cope.

Seasonal food consumption – This means only eating food when it can be grown locally. This means that we are not importing as much food and so we reduce our food miles and the amount of CO2 released.

Reducing waste and losses. – This means making sure we don't buy too much, that supermarkets don't order too much. That we consume vegetables that are odd shapes so they are not wasted and that businesses think about how much they produce and then waste.

Agribusiness in Almeria will increase food production: see	Rice Fish farming in Bangladesh is more sustainable: see	
case study card.	case study card.	