

The challenge of resource management

	Red	Amber	Green
Food, water and energy are fundamental to human development			
I know how important food, water and energy are to economic and social well-being.			
I have an overview of global inequalities in the supply and consumption of resources.			
The changing demand and provision of resources in the UK create opportunities and challenges. An overview of resources in relation to the UK: Food			
I know there is a growing demand for high-value food exports from low income countries.			
I know there is a growing all-year demand for seasonal food and organic produce.			
I understand how large carbon footprints are associated with the increased number of 'food miles' travelled and moves towards local sourcing of food.			
I understand the trend towards agribusiness.			
The changing demand and provision of resources in the UK create opportunities and challenges. An overview of resources in relation to the UK: Water			
I know the changing demand for water in the UK.			
I can discuss water quality and pollution management.			
I know how the UK matches supply and demand for water and the areas of deficit and surplus.			
I understand the need for transfer to maintain water supplies.			
The changing demand and provision of resources in the UK create opportunities and challenges. An overview of resources in relation to the UK: Energy			
I know how the energy mix in the UK is changing from reliance on fossil fuels and the growing significance of renewables.			
I know how supplies of coal, gas and oil have reduced in the UK.			
I know the economic issues associated with exploitation of energy issues.			
I know the environmental issues associated with the exploitation of energy resources.			

We only need to study one of Energy, Food or Water. We have studied Food. This is what you need to revise:

Food

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Demand for food resources is rising globally but supply can be insecure, which may lead to conflict.			
I know the global patterns of calorie intake and food supply.			
I know the reasons for increasing food consumption (economic development and rising population).			
I know the factors affecting food supply: climate, technology, pests and disease, water stress, conflict, poverty.			
I know the impacts of food insecurity – famine, undernutrition, soil erosion, rising prices, social unrest.			
Different strategies can be used to increase food supply.			
I can give an overview of strategies to increase food supply including irrigation, aeroponics and hydroponics, the new green revolution and use of biotechnology, appropriate technology.			
I know an example of a large-scale agricultural development to show how it has both advantages and disadvantages.			
I know the potential for sustainable food supplies: organic farming, permaculture, urban farming initiatives, fish and meat from sustainable sources, seasonal food consumption, reduced waste and losses.			
I know an example of a local scheme in an LIC or NEE to increase sustainable supplies of food.			