

Keyword	Definition
Climate change	Long term change in average weather patterns
Global warming	Increasing global temperatures
Glacial retreat	When glaciers melt and move back
Enhanced greenhouse effect	Increased concentrations of greenhouse gases has led to an increase in the global average surface temperatures.
Greenhouse gases	A gas which contributes to the greenhouse effect such as carbon dioxide and methane
Carbon footprint	The total amount of carbon used (burnt) but a county, company or person.

Causes of climate change

Natural causes	Human causes
<p>Sunspots – The more sunspots, the warmer the Earth</p> <p>Earth's orbit – the closer the Earth is to the sun, the hotter it is</p> <p>Volcanoes – when volcanoes erupt, the ash blocks the sun, and the temperature decreases</p>	<p>Deforestation – trees take in carbon dioxide, the more they are cut down, the more carbon dioxide released</p> <p>Burning fossil fuels – when we burn coal, oil and gas, carbon dioxide is released</p> <p>Breeding cows – the more cows, the more methane is released</p>

Solutions to climate change

Local solutions	Global solutions
<ul style="list-style-type: none"> - Reducing food miles to reduce the amount of fossil fuels that need to be burned - Cities investing in electric buses and taxis - Cities like Bristol have introduced bike hire schemes - The government pays money to homeowners to insulate their homes - New buildings like schools are fitted with solar panels - Electric cars do not need to pay any road tax as they don't burn fossil fuels 	<ul style="list-style-type: none"> - Alternative energy sources – to reduce carbon emissions many countries are turning to alternative sources of energy such as hydro-electricity, solar, wind and tide energy - Carbon capture – carbon dioxide emissions are captured and stored underground - Afforestation – Planting trees allows more carbon dioxide to be taken up, reducing the enhanced greenhouse effect - International agreements – countries work together to agree on strategies to reduce climate change

Evidence for climate change

- **Glacial retreat** – glaciers are shrinking
- **Sea level rise** – sea level rose 8 inches in the last 100 years
- **Extreme events** – the number of extreme events is increasing

Impacts of climate change in Australia

- Forest fires due to long periods of drought
- Loss of habitats
- Air pollution
- Increased risk of thunderstorms
- More frequent storms

Impacts of climate change in Bangladesh

- Bangladesh is low lying so is at risk of sea level rise
- Flooding caused during the rainy season
- Environmental refugees move from the flooded coastal areas, to the cities which are inland

Impacts of climate change in UK

- Increase in extreme events such as the Beast from the East
- Flooding caused by heavy rainfall
- Heatwaves, particularly in the South East
- Drought in East Sussex