

Climate Change

This term, we will explore climate change, with a special focus on the role the USA and China play in the release of greenhouse gases. We will look at the many impacts of climate change, including extreme weather, flooding and destruction of habitats.

What are the causes of climate change?

- Climate change is like a big puzzle with lots of pieces that fit together to change our planet's weather and environment. Imagine our Earth wearing a big, cosy blanket made of gases like carbon dioxide and methane. When we burn things like coal, oil, and gas for energy, or cut down lots of trees, we add more of these gases to the air. This makes the Earth's blanket thicker, trapping more of the Sun's warmth and making the planet hotter. This can lead to more extreme weather, like really hot days, big storms, and less predictable seasons. So, the main causes of climate change are the gases we release into the air and the changes we make to the land, all of which add up to a warmer Earth.



A starving polar bear, which has lost its habitat and therefore its food source. This is as a result of climate change.

What are the consequences of climate change?

Climate change leads to a lot of big changes on our planet, kind of like dominoes falling one after the other.

- First, it makes the Earth hotter, which can cause more extreme weather like very hot days, heavy rainstorms, and powerful hurricanes.
- It also melts ice at the poles, which makes sea levels rise and can flood places where people live.
- Animals and plants can struggle to survive these changes, and some might even become extinct if they can't find new homes.
- Farms can have a harder time growing food because of the weird weather, making it tougher for everyone to find enough to eat.

Key Vocabulary

Climate Change: A big change in the Earth's weather patterns, making it warmer and causing more extreme weather.

Greenhouse Gases: Special gases in the air, like carbon dioxide, methane, and water vapour that trap the Sun's warmth.

Key Vocabulary

Global Warming: The increase in Earth's average temperature due to the build-up of greenhouse gases in the atmosphere.

Sea Level Rise: The increase in the level of the world's oceans caused by the melting of ice caps and glaciers, as well as the expansion of sea water as it warms, leading to flooding of coastal areas.

Extinction: The permanent disappearance of a species from Earth. Climate change can lead to extinction by changing the natural habitats that plants and animals need to survive.

TASK

During our topic on climate change, we are going to be looking at the causes and consequences of climate change.

Your task will be to independently research and create a piece of learning on either a cause or a consequence of climate change.

- Make a fact file
- Make a poster
- Prepare a short presentation