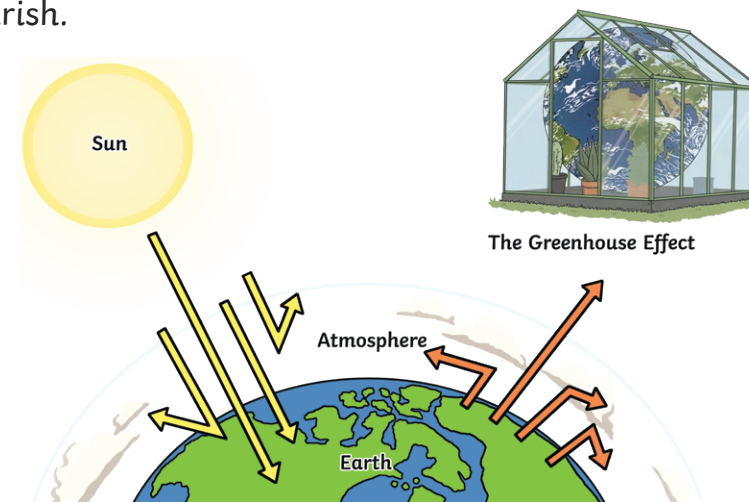


Key Vocabulary Overview

global warming	the slow increase in temperature across the planet
greenhouse gases	gases that collect in the Earth's atmosphere, trapping heat from the Sun and causing the Earth to warm up
fossil fuels	fuels made from dead plants and animals over millions of years
climate change	long-term change in the temperature and weather across the Earth
carbon footprint	the amount of carbon dioxide that is released as a result of a person or organisation's activities
habitat	the place where a particular animal or plant lives that meets its environmental needs
ice cap	a type of glacier that is a permanent covering of ice over a large area of land
glaciers	huge, thick pieces of ice that form when lots of snow falls in one location over many years

The Greenhouse Effect

Gases around the Earth act in a similar way to the glass in a greenhouse. They trap heat from the Sun inside the atmosphere, causing the Earth to warm up. This is important for keeping the Earth warm enough for life to flourish.



The amount of carbon dioxide in our atmosphere has increased by 50% since 1750.

Greenhouse Gases

Gases such as carbon dioxide and methane are also known as '**greenhouse gases**'. **Greenhouse gases** are the gases that trap heat from the Sun in the Earth's atmosphere. As more gases accumulate, more heat is trapped, causing Earth's atmosphere to heat up. This causes a phenomenon called '**global warming**'.

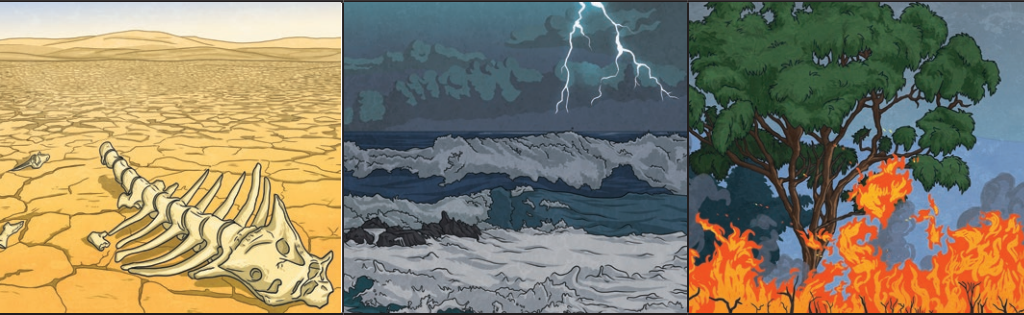
Disclaimer: While every care has been taken to ensure that there are no significant emotional triggers regarding eco-anxiety for students in this lesson, any feelings that arise should be embraced and discussed non-judgementally.

Global Warming

Global warming upsets the delicate balance we have on Earth. As the temperature changes, lots of different systems begin to change. This is known as **climate change**.

Climate Change

Climate change caused by **global warming** leads to changing weather patterns such as: more periods of drought, severe storms or more extreme forest fires.



Fossil Fuels

Between 80% and 90% of the energy used across the world is obtained from burning **fossil fuels**. Coal, oil and natural gas are types of **fossil fuels**. They are naturally formed from the remains of plants and animals that lived millions of years ago.



Carbon Footprint

One thing we can all do to slow down **global warming** and **climate change** is be aware of our **carbon footprint**. Our **carbon footprint** is the amount of carbon dioxide that is released into the atmosphere as a result of our actions, activities and energy consumption.



How Are People Helping?

Scientists and engineers around the world are working to reduce the impact of **climate change** on the planet by:

- inventing ways to help the planet adapt to **climate change**;
- finding ways to minimise the impact of **climate change**.