



Global Warming



Year 5

Knowing More, Remembering More

Remembering previous learning

What is a gas? Gases have no fixed shape and no fixed volume. They will spread out and fill any available space.

What is the Earth? The Earth is a planet that orbits the Sun. It is the only planet in the Solar System that is known to be able to support life.

In this unit children will...

- gain a simple understanding of global warming and learn what it is and why it is happening.
- have opportunities to explore how global warming occurs with reference to human action.
- research the different ways that humans can reduce global warming and climate change.
- consider making small changes within their school setting to reduce their carbon footprint.
- understand why reducing our carbon footprint has positive effects for living things.

Key Learning Steps:

1. What is global warming?
2. What is the impact of global warming on living things?

Working Scientifically:

- 5.8 Gather, record and classify data with increasing complexity to help in answering questions.
- 5.12 Use scientific evidence to answer questions.
- 5.13 Make conclusions based on scientific evidence and from their own testing and findings.

Key Vocabulary:

- global warming
- greenhouse gases
- fossil fuels
- climate change
- glaciers
- ice cap
- habitat

Key Scientists and Sustainability Champions



Classic

Eunice Foote (1819-1888)

the first scientist to conclude that certain gases warmed when exposed to sunlight, and that rising carbon dioxide (CO₂) levels could affect climate



Contemporary

Greta Thunberg

Environmental activist known for challenging world leaders to take immediate action for climate change.



Contemporary

Pope Francis

In his encyclical, *Laudato Si*, Pope Francis encourages us all to be better stewards of creation and take better care of our world.

Knowing More, Remembering More

Knowing more in Y5

What is global warming? Global warming is the gradual increase in the Earth's temperature.

What are greenhouse gases? Gases that trap heat from the Sun and cause the Earth to warm up.

What is the greenhouse effect? The greenhouse effect is caused by greenhouse gases trapping heat from the Sun. This leads to global warming.

What are fossil fuels? Coal, oil and natural gas which can be burnt to power vehicles and generate electricity.

What are the effects of global warming? Glaciers and ice caps can melt. This can cause sea levels to rise, leading to flooding. Weather patterns can also change, leading to drought or flooding, making it harder to grow crops.

What does global warming affect? Global warming affects humans, animals and plants.

What is a carbon footprint? The amount of greenhouse gases released by an individual or a group of people.