



Trailblazers Cycle A: Spring Term 1- Looking After Our Environment (Year 6)

Overview, Vocabulary and Sticky Knowledge



What do I already know about The Environment?

In Little Explorers, I learned...

- The weather changes through each season.

In Big Explorers, I learned...

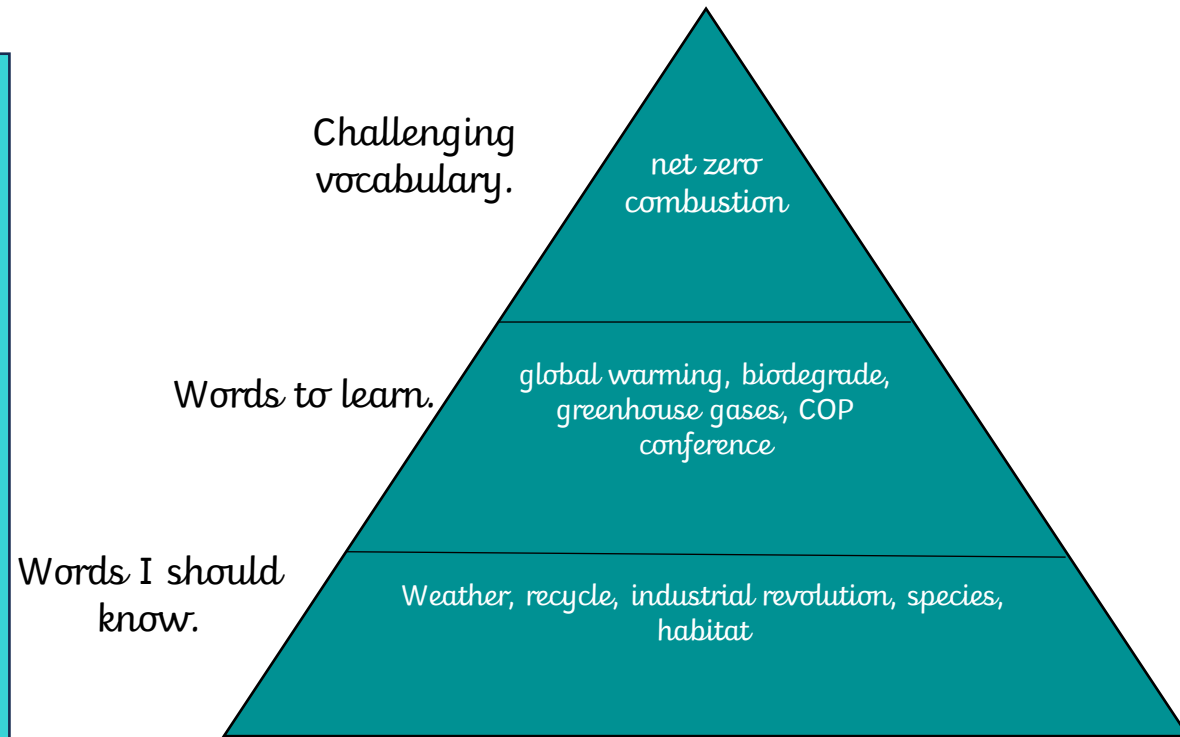
- Humans need water, food and air to survive.

In Philosophers, I learned...

- An ecosystem is a community of living things.
- In the water cycle, water evaporates and condenses.
- Soil is made from rock and organic matter.

In Trailblazers, I learned...

- A microorganism cannot be seen without a microscope.



Key facts I will learn...

- 1) Greenhouse gases trap the heat from the sun and stop it leaving the Earth.
- 2) Energy sources can be renewable and non-renewable.
- 3) We can help by recycling, reducing our use of electricity and reuse rather than buying new.



Knowledge Organiser: Looking after the environment

Careers connected to Looking after the environment:
Wildlife Biologist, Zoologist, Oceanographer, Marine Biologist, Landscape Architect.



Lesson Sequence



1. Learn about climate change



2. Explore ways to reduce how much rubbish is sent to landfill



3. Explore ways to reduce energy consumption



4. Explore what happens when fuels are burnt



5. Explore the outcomes of COP26



6. Compare data associated with the weather

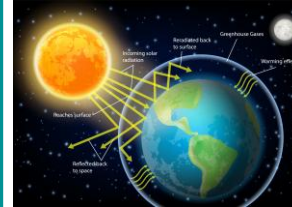
Greenhouse gases

Some human activities produce **greenhouse gases** (carbon dioxide, methane, nitric oxide):

- Cutting down trees means more carbon dioxide stays in the air.
- Farming animals produces methane gas.
- Transport – fuels such as diesel and petrol produce carbon dioxide.

Scientists look at **trends** in weather data to track how the Earth's climate is changing.

Climate Change/Global Warming



Greenhouse gases trap the heat from the sun and stop it leaving the Earth, causing the planet to become **warmer**.

A warmer planet means the ice will melt. Some animals will lose their habitat. Water levels will rise, causing some land to disappear under water.

Energy Sources

Renewable

- Wind farms
- Solar farms
- Hydro power stations

Non-renewable

Oil
Coal
Gas
(Fossil fuels)

Reduce Reuse Recycle

How we can help:

1. **Recycle** as much rubbish as possible so factories don't have to use coal and oil to make new products.
2. Buy products with **recyclable** packaging.
3. **Switch off** lights and electrical appliances when not in use.
4. Walk, cycle or car share.
5. Use **renewable energy** sources for power if possible.
6. Plants and trees use carbon dioxide to make food so **planting** more helps reduce the amount in the atmosphere.
7. **Eat less meat** so less animals are farmed.

