

Global Warming and Fieldwork

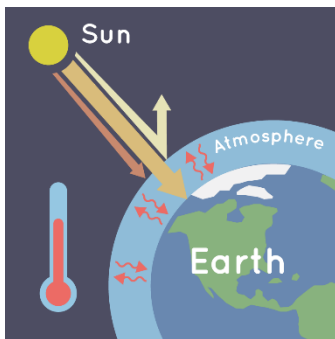
Year 4 – Geography Spring 1

What is global warming?

Global warming is part of climate change and is concerned with the **rising temperature** of the global climate. It refers to the fact that the Earth's temperature is getting hotter.

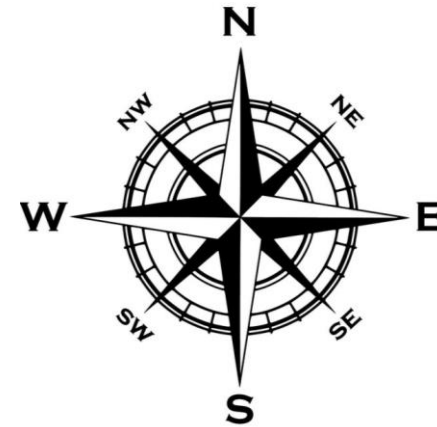
What is causing global warming?

The main cause of global warming is an increase in carbon dioxide (CO₂) and other gases in Earth's atmosphere. Carbon dioxide is one of a number of gases in the atmosphere called **greenhouse gases**. Other greenhouse gases include: methane, water vapour, nitrous oxide and ozone.



The Greenhouse Effect

A garden greenhouse is made from glass or plastics which lets in sunlight and heat. Most of the heat cannot escape back out again and is trapped inside, making it a better environment for plants to grow. Gases in the Earth's atmosphere have the same effect as the glass in a greenhouse, this is where they get their name.



Compass Points

We use compass points to describe position and directions. There are four cardinal points of a compass (N, S, E and W) and four intercardinal (or ordinal) directions are formed by bisecting the above, giving northeast (NE), southeast (SE), southwest (SW) and northwest (NW).

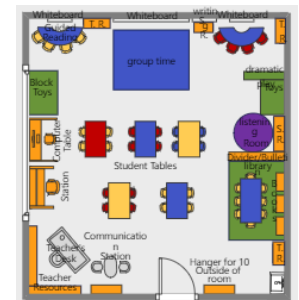
What effects does global warming have?

Some effects they have on the planet are:

- Drought
- Hurricanes
- Melting Ice caps
- Rising Sea levels
- Flooding
- Rising temperatures
- Changes in weather patterns



Example of a classroom plan.



Key Vocabulary for fieldwork

Map	A drawing that shows where places are.
Plan	A drawing of a space from above.
Scale	How big or small something is on a map compared to real life.
Key	Explains symbols on a map.
Grid reference	Using letters and numbers to locate places on a map.

What are some human causes of global warming?

Human causes include:

- Deforestation
- Fossil Fuels
- Factories and Making Products
- Cars and Transport