

Natural Causes of Climate Change



Our Orbit

Earth's orbit changes which affects the levels of sunlight that reach us.

These changes take thousands of years and so don't cause fast climate change.



Volcanoes

Eruptions release **CO₂** and **sulphur dioxide** into the atmosphere, heating the earth.

Mt Pinatubo's 1991 eruption briefly raised temperatures by 0.5°C.



Breathing

CO₂ is produced naturally when **people and animals breathe.**

However, plants and trees take in CO₂ to live and so can balance this out.



Farting

Methane is produced from animals and people as they digest food

Rice fields also release methane as rice grows.

Man-Made Causes of Climate Change



Fossil Fuel

Burning coal, gas and oil releases **CO₂** and **sulphur dioxide** into the air.

80% of earth's energy is from fossil fuels called **non-renewable**.



Deforestation

Cutting trees down releases stored **CO₂** and stops trees from absorbing **CO₂**.

Deforestation causes $\frac{1}{5}$ of greenhouse gases.



Landfills

Rotting organic materials release **methane** (84x worse than **CO₂**).

$\frac{1}{3}$ of all food produced in the world goes to waste



Agriculture

Animals release methane fertiliser contains **nitrous oxide** (10x worse than **CO₂**).

High food demands mean **29%** of gas emissions come from farming.