

Stile

carbon sink

Climate Change

Stile

climate

Climate Change

Stile

climate change

Climate Change

Stile

climate zone

Climate Change

Stile

greenhouse effect

Climate Change

Stile

greenhouse gas

Climate Change

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**negative
feedback**

Climate Change

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**ocean
conveyor belt**

Climate Change

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**positive
feedback**

Climate Change



Any change in the climate of a region or the entire planet

Earth's climate is changed by natural processes and is now also being changed by human activities, such as burning fossil fuels.



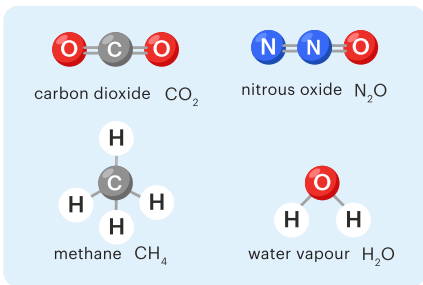
Average weather conditions of a region over a long period of time

Climate is measured over periods of time greater than 30 years.



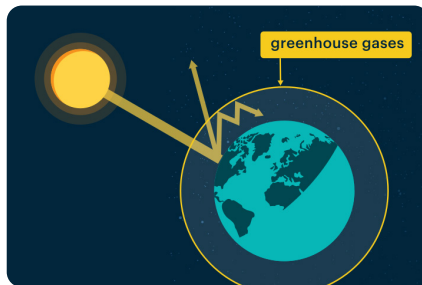
Part of the Earth that absorbs carbon dioxide from the atmosphere

The main natural carbon sinks are oceans, forests and soils.



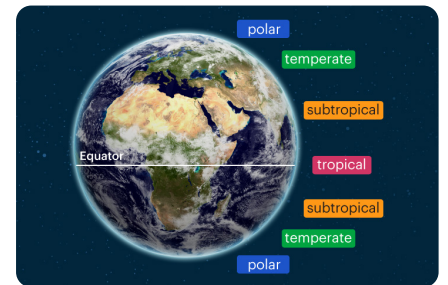
A gas that can absorb and re-emit infrared radiation

Greenhouse gases contribute to the greenhouse effect. Examples include carbon dioxide, methane and water vapour.



A natural warming of a planet's surface and lower atmosphere

The greenhouse effect is caused by the heat-trapping power of greenhouse gases in the atmosphere.



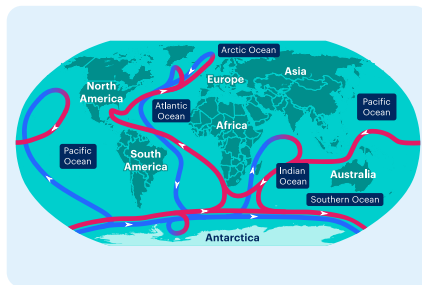
A region defined by certain temperatures, humidity and rainfall

There are four major climate zones on Earth – tropical, subtropical, temperate and polar.



A change in a system that causes another change with the same effect

Positive feedback, such as the albedo effect, increases the rate of global warming.



A global system of major ocean currents

The ocean conveyor belt transports heat and matter around the globe. It connects four of the five oceans.



A change in a system that causes another change with the opposite effect

Negative feedback, such as increased plant growth, reduces the rate of global warming.

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**terrestrial
radiation**

Climate Change

Stile

**thermal
expansion**

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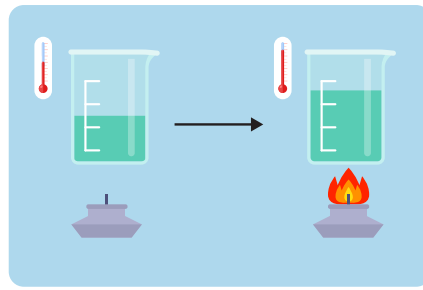
weather

Climate Change



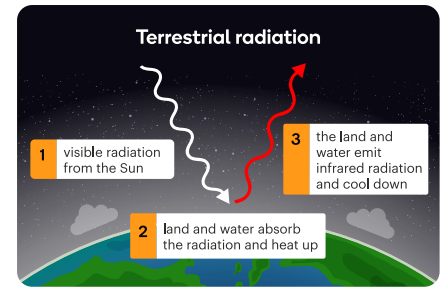
Atmospheric features that change on a day-to-day basis

Common weather conditions include rain, sun, wind and snow.



The increase in a substance's volume when it is heated

Thermal expansion is one reason why sea levels rise as a result of global warming.



Heat emitted from the Earth's surface and atmosphere

Because air, land and water aren't very hot, terrestrial radiation has long wavelengths and low energy.