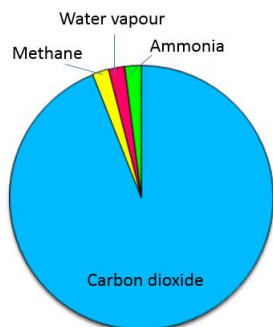


Year 11 – Paper 2 - Chemistry Knowledge Organiser

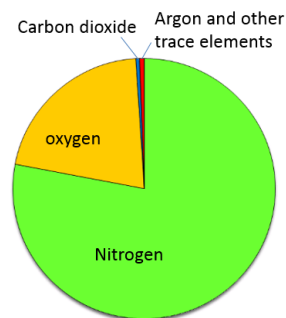
Atmosphere chemistry

Composition of the atmosphere

The earth's atmosphere is made up of a range of gases. The percentage of each of these gases has changed over time.



Early atmosphere



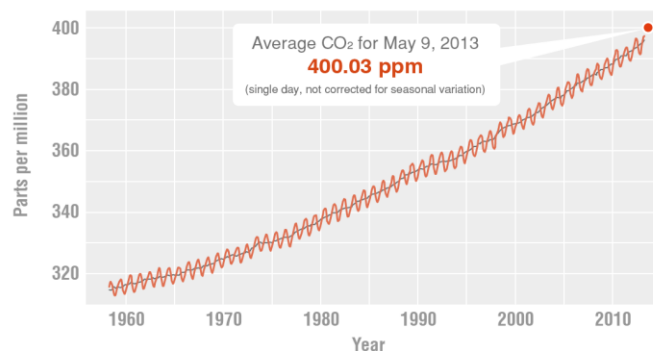
Current atmosphere

Green house gasses.

Greenhouse gases like Carbon dioxide (CO₂), methane (CH₄) and water vapour (H₂O) act like an insulating layer in the Earth's atmosphere. This allows the Earth to be warm enough to support life.

As more fossil fuels are burnt the amount of green house gasses in the atmosphere increases and traps more of the sun's heat. This is a major cause of Climate Change.

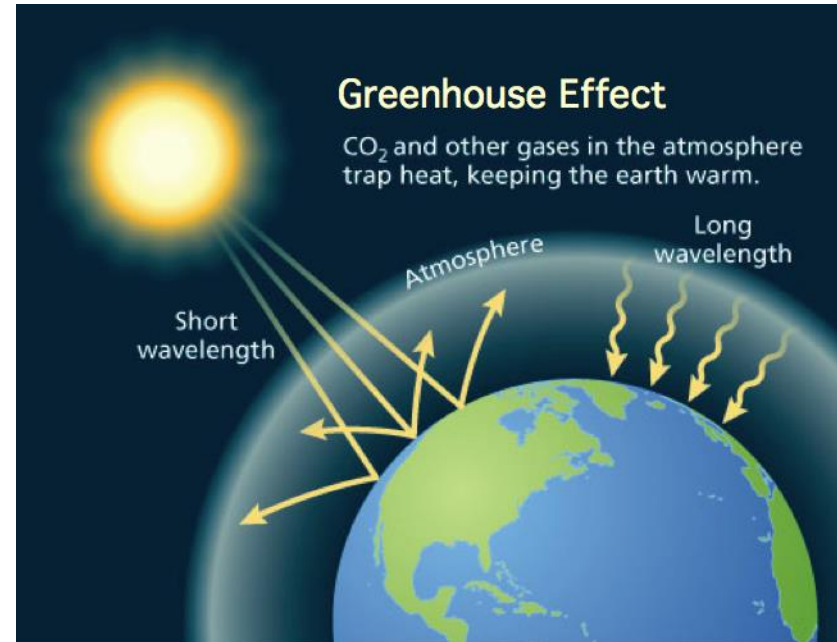
Carbon Dioxide Concentration



Credit: NOAA/Scripps Institution of Oceanography

Products from combustion

This is the general equation for a fuel being burnt. (complete combustion)



Greenhouse Effect

CO₂ and other gases in the atmosphere trap heat, keeping the earth warm.

Climate Change

Climate change refers to the change in local and regional climate. It includes events such as extreme weather such as storms, and droughts.

A major contributor is global warming.

Carbon footprint

This term refers to the amount of carbon dioxide that a person or product has produced in its creation or its day to day life.

For instance if you drive a car you will have a bigger carbon foot print than if you don't.

Also if you eat fruit that is imported from abroad it will have a bigger carbon foot print than if it was grown locally.