

CHEMISTRY

C1- Air Quality

• Pollutants in the Air

Pollutants are chemicals. They can harm the environment and our health.

Human activities such as burning fossil fuels release pollutants into the atmosphere, e.g. from power stations or cars.

Pollutants can harm ecosystems. For example, acid rain makes them too acidic for organisms to survive. This affects our biodiversity and natural resources, e.g. trees.

Pollutant	Released as...	Effect
Carbon dioxide	Environment	Traps heat in the Earth's atmosphere (this is greenhouse gas)
Nitrogen oxides	Environment Plasma	Causes acid rain Causes breathing problems and can make asthma worse
Sulphur dioxide Particulates (solid) particulate matter (e.g. dust)	Environment Environment Plasma	Causes acid rain Makes buildings dirty Causes asthma and lung problems (some of which)
Carbon monoxide	Plasma	Poisons the blood stream carrying oxygen, which is very bad!

• The Atmosphere

The Earth is surrounded by a mixture of gases called the atmosphere.

The atmosphere contains...

Around 78% nitrogen, 21% oxygen, 1% hydrogen and other noble gases and small amounts of water vapour, carbon dioxide and other gases.

• Measuring Pollutants

It's possible to measure concentrations of pollutants in the air in ppb (parts per billion) or ppm (parts per million). For example, a carbon dioxide concentration of 340ppm means that in every one billion molecules of air, 34 molecules will be carbon dioxide.

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