Exmouth Community College





Chemistry / Earth's Resources 10 Year



Early Atmosphere

Greenhouse Gases and Climate Change

Atmospheric Pollutants



Other gases 0.17%

Carbon dioxide

Effects of climate change:

- Rising sea levels
- Droughts
- Extreme weather events
- Changes in wildlife distribution

Why do some people deny humans cause climate change???

- Difficult to model
- Models are simplified
- Media can be biased
- MUST check the evidence is PEER REVIEWED



'total amount of CO_2 and other greenhouse gases emitted over the full life cycle of a product, service or event'

Carbon Footprint

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Gases released in combustion of fossil fuels and their effects:

Gases	Released when	Effects caused
Carbon dioxide	All fossil fuels burn	Global warming
Water vapour	All fossil fuels burn	None
Carbon monoxide	Incomplete combustion of fuels (not enough O_2)	Poisonous gas
Solid particulates	Solid fuels burn incompletely	Global dimming Asthma
Sulphur dioxide	Coal burns (sulphur is an impurity in coal)	Acid rain Respiratory problems
Nitrous oxides	Nitrogen in air reacts with oxygen at high temperatures	Acid rain Respiratory problems

