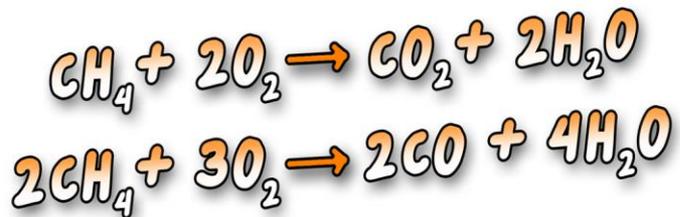
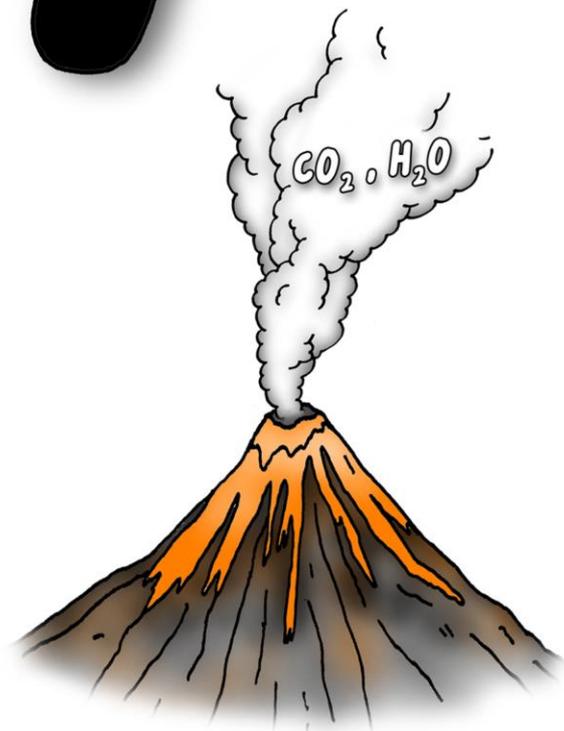


AQA GCSE
CHEMISTRY OF THE
ATMOSPHERE
THINK IT!

Greenhouse Gases
CARBON DIOXIDE
WATER VAPOUR
Methane



The proportion of gases in the atmosphere and the early atmosphere:

- The Earth's atmosphere is dynamic. Explain what this statement means.
- Describe and explain the similarities and differences between the Earth's early atmosphere and the current atmosphere.

Greenhouse gases:

- Explain the benefits to Earth of the different greenhouse gases.
- Explain why there is a greenhouse effect on Earth.
- Increased greenhouse gas levels in the atmosphere can lead to the acidification of the seas and oceans. Explain why this occurs and the implications of this on biodiversity.

Global climate change:

- Explain in detail what global climate change is.
- Increasing global temperatures have a negative impact on the biodiversity in the polar regions. Explain this statement.
- Explain how global climate change leads to extreme weather conditions.

How oxygen increased:

- Write the balanced symbol equation to show why the amount of oxygen in the atmosphere has increased.
- Explain why the amount of oxygen has increased in the atmosphere and the effects this has had on living things.
- Discuss why the levels of oxygen in the atmosphere are currently relatively stable.

AQA GCSE Chemistry of the atmosphere

ThinkIT!

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The carbon footprint and its reduction:

- Describe your carbon footprint today.
- Explain how you could reduce this carbon footprint and explain why a reduction would occur.
- Many companies state that they are reducing their carbon footprint by using electric vehicles. Evaluate this.

How carbon dioxide decreased:

- Write the balanced symbol equation to show why the amount of carbon dioxide in the atmosphere has decreased.
- Carbon dioxide is naturally captured from the atmosphere through biological, chemical, and physical processes. Explain these processes

Human activities that contribute to greenhouse gases:

- Describe in detail two human activities that increase the amount of carbon dioxide and methane in the atmosphere.
- Why do many scientists agree that there is a greenhouse effect?
- the idea of the greenhouse effect still controversial?

Atmospheric pollutants from fuels and their effects:

- Explain with a balanced symbol equation why burning coal may release sulfur dioxide (SO₂).
- Explain the implications for humans and other animals of the increases of sulfur dioxide, oxides of nitrogen and particulates in the atmosphere.