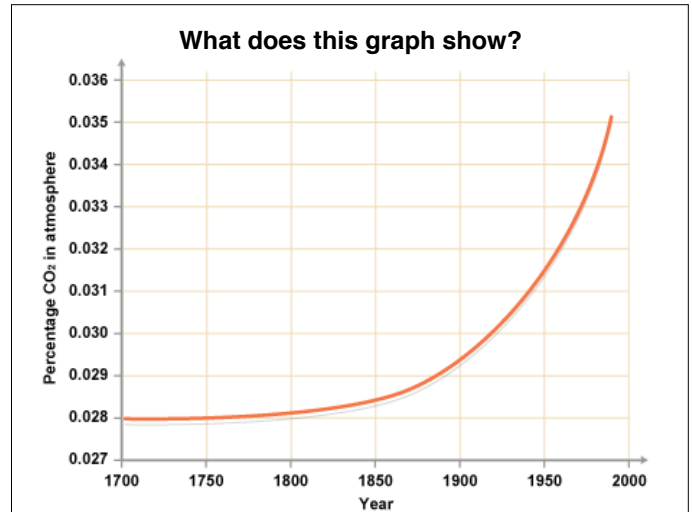


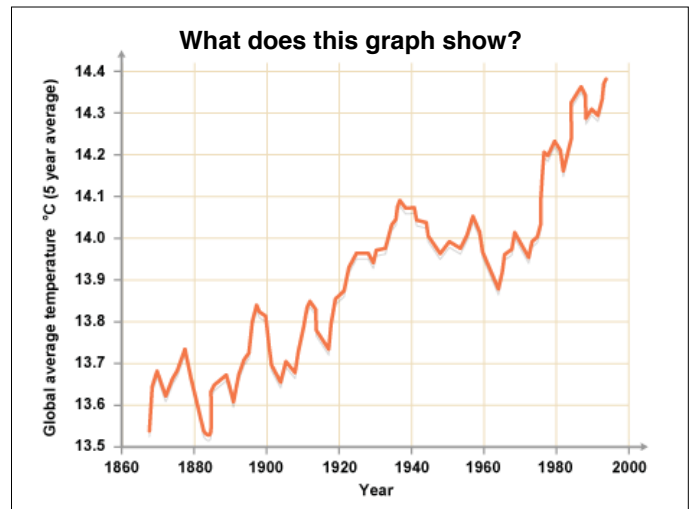
Global Warming

- ❖ State the adverse effect of Global Warming and discuss why these pollutants are of global concern
- ❖ State that carbon dioxide is a greenhouse gases and explain how it may contribute to climate change.



Carbon dioxide in the atmosphere has risen at a higher rate since the 19th century.

We can see this because.....

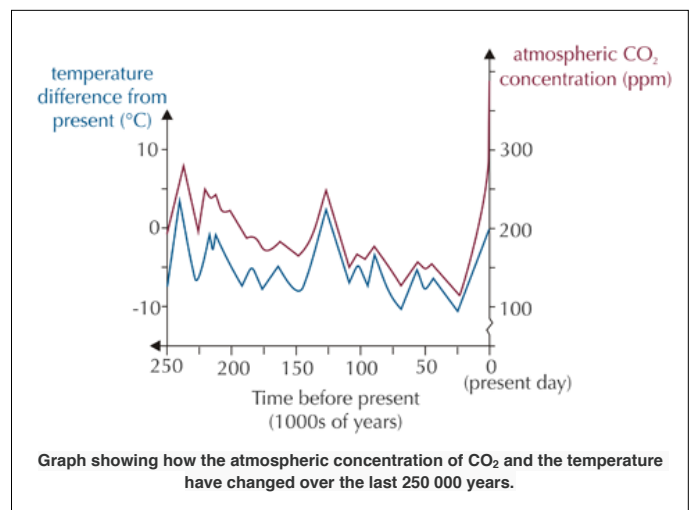


The temperature of the earth has risen over the years.

We can see this because.....

As you can see from the graphs, the amount of carbon dioxide in the atmosphere has increased steadily over the past 150 years, and so has the average global temperature.

But correlation does not mean causality, so why do scientists believe they are linked?



Carbon dioxide is a greenhouse gas. It absorbs heat energy and prevents it escaping from the Earth's surface into space.

The greater the amount of carbon dioxide in the atmosphere, the more heat energy is absorbed and the hotter the Earth becomes.

Can we prove CO₂ absorbs more heat? YES

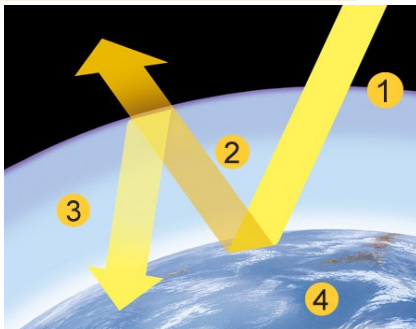


Is CO₂ the only greenhouse gas?

No, methane CH₄, and H₂O are much stronger greenhouse gases.

What is the greenhouse affect?

- 1 Sun's rays enter the Earth's atmosphere
- 2 Heat is reflected back from the Earth's surface
- 3 Heat is absorbed by carbon dioxide (greenhouse gas) and as a result becomes trapped in the Earth's atmosphere
- 4 The Earth becomes hotter as a result



What evidence is there for climate change?



A rise of just a few degrees in world temperatures will have a dramatic impact on the climate:

Global weather patterns will change, causing drought in some places and flooding in others.

Melting of polar ice caps will raise sea levels, causing increased coastal erosion and flooding of low-lying land – including land where major cities lie.

What will the effects of climate change be?

- 1.
- 2.
- 3.
- 4.
- 5.