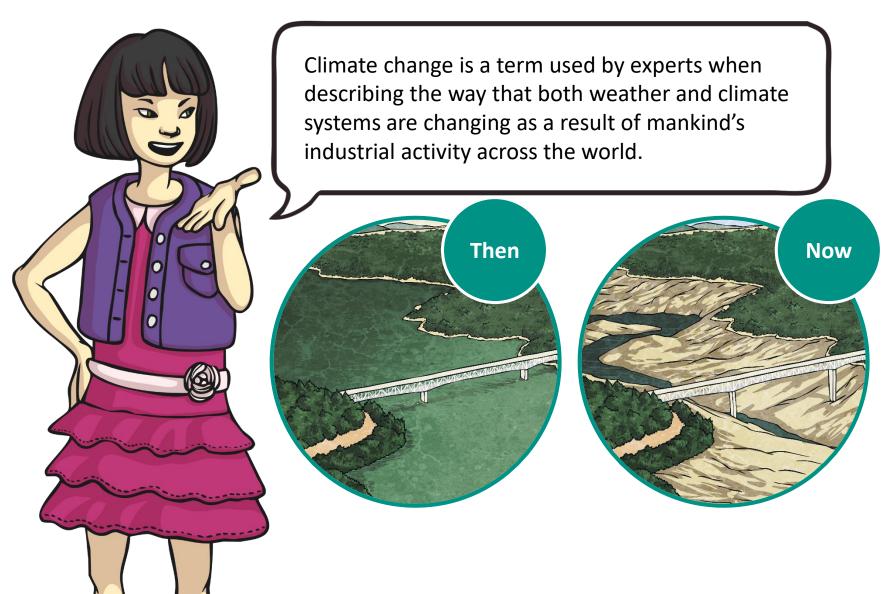
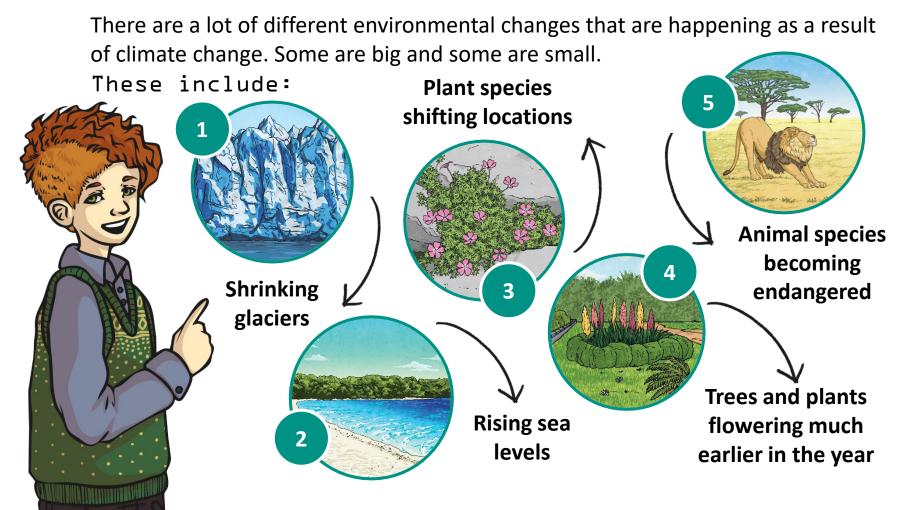
Lesson 2

L.O: I understand and can describe the main aspects of climate change and how it affects the planet.

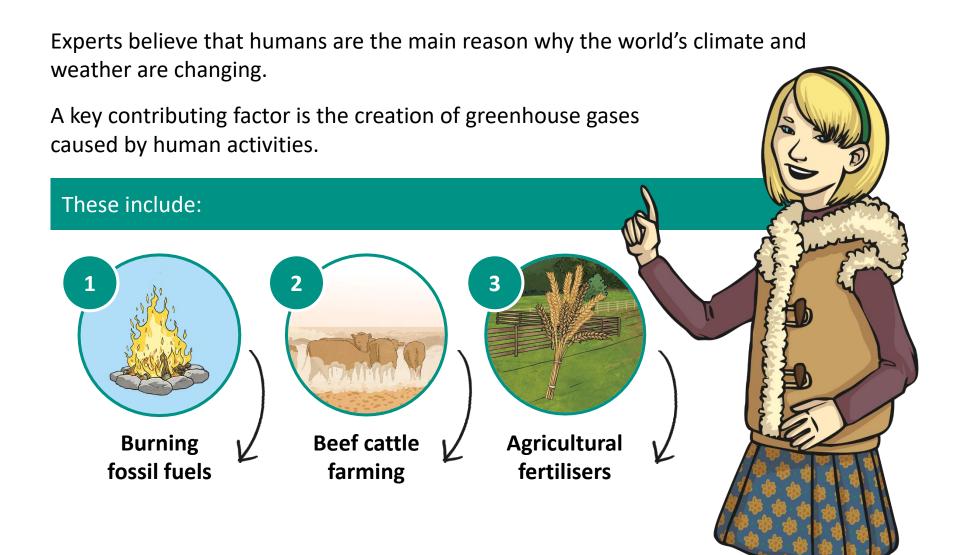
What Is Climate Change?



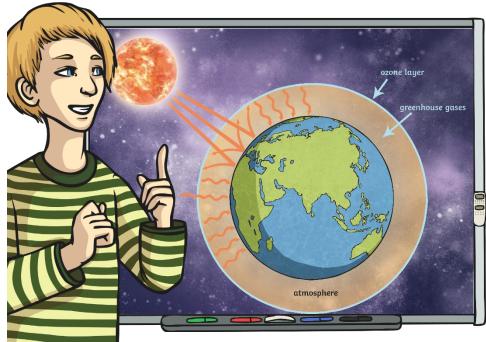
What Is Being Affected By Climate Change?



Why Is the World's Climate Changing?



How Do Greenhouse Gases Change the Climate?



Greenhouse gases that get released into the atmosphere prevent heat from escaping the Earth.

The result of this is that whilst the Sun's rays can enter the atmosphere to provide our planet with heat and warmth, not as much can escape.

Therefore, the planet keeps getting hotter and hotter.

Since the Industrial Revolution in the 18th Century, the planet's average temperature has increased by around one degree.

Where Do These Greenhouse Gases Come From?

Water Vapour (H₂O)

The most abundant greenhouse gas, created through the heating of water.

Carbon Dioxide (CO₂)

Created through the burning of substances containing carbon, such as fossil fuels.

Methane (CH₄)

Produced by cattle, chickens and pigs. As the global population increases, the more of these creatures are farmed and the more gas they produce.

Nitrous Oxide (N2O)

Used in rocket fuel, racing cars, hospitals and dentist surgeries. Also found in agricultural fertilisers.

Hydrofluorocarbons (HFC)

Found in air conditioning and refrigerators.

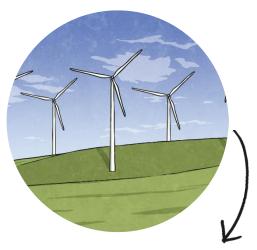
How Do Greenhouse Gases Change the Climate?

It is very important to reduce the production of the gases that are creating the greenhouse effect. This is reliant on governments across the world creating laws and strategies to meet certain targets in pollution reduction. In developed countries, such as those in the European Union, plans and laws are already in place. In developing countries, however, there is still a greater dependency on industries that create greenhouse gases.



How Do Greenhouse Gases Change the Climate?

Some countries, including the UK, have committed to reducing emissions and finding alternative energy sources, including:



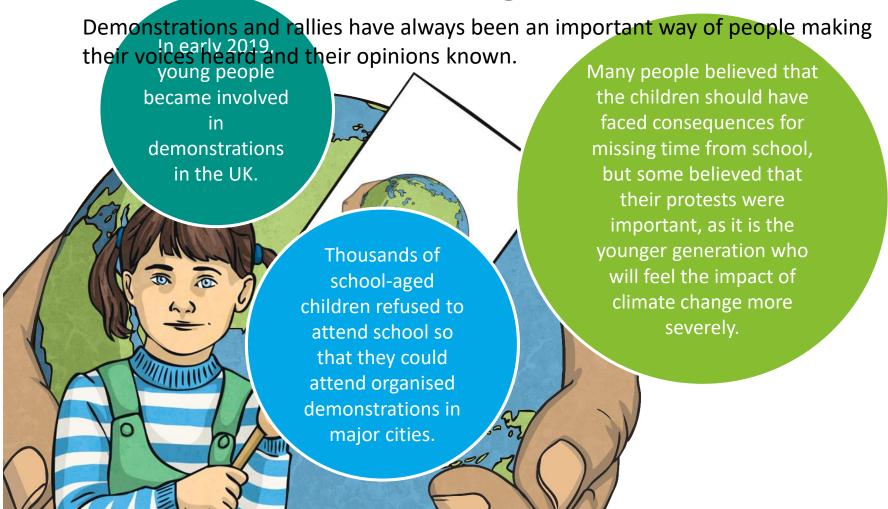
building wind farms, solar farms and other means of creating electricity from renewable energy;





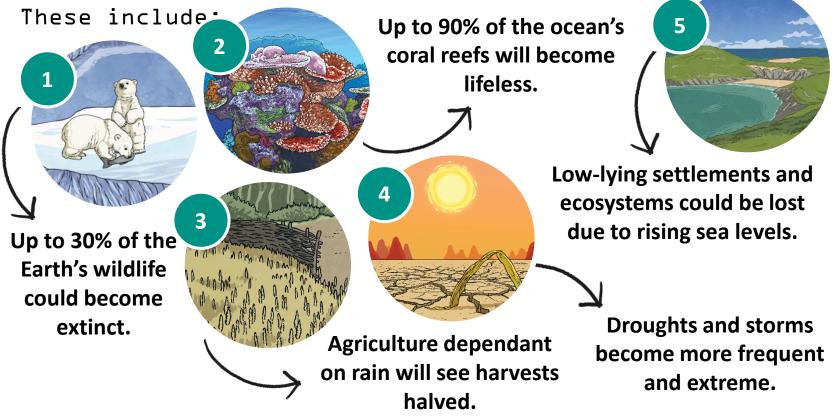
committing to phasing out the manufacture of petrol and diesel powered transport.

What Is Being Done to Combat Climate Change?



What Are the Consequences of Not Doing Enough?

Without global warming slowing down, experts have predicted there are some very serious consequences for our planet.



What Do You Think?

Were the young protestors right to take time out from their learning to protest?

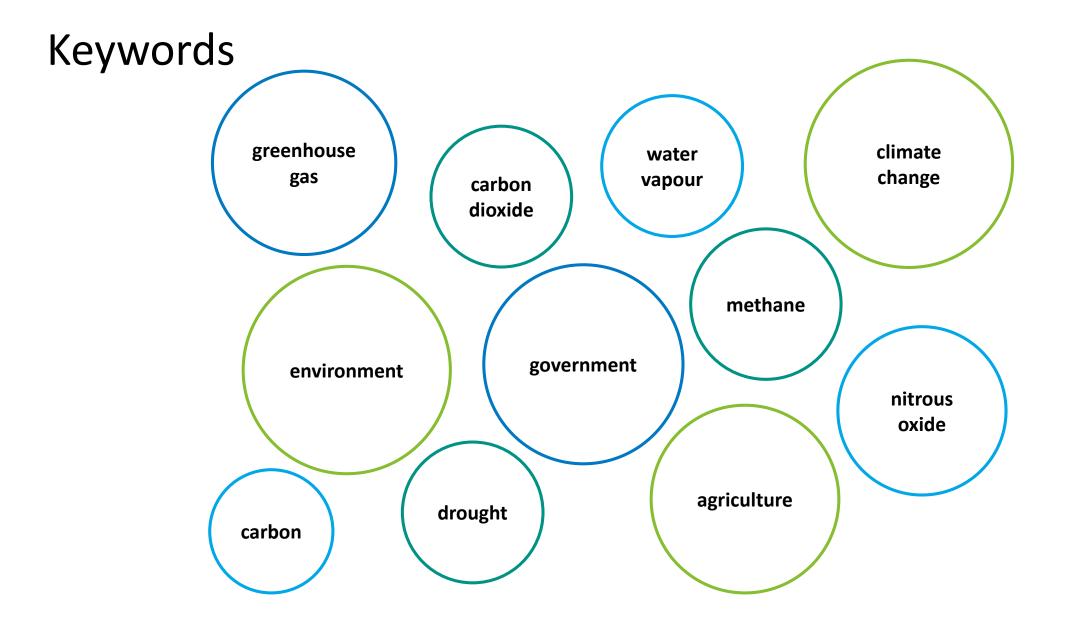
> Is enough being done in this country to combat climate change?

What would you like to see happen?

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Is enough being done worldwide to combat climate change?



Weblinks

The effects of climate change over time from http://climatekids.nasa.gov

What is climate change? from www.bbc.co.uk

'Global warming' guide from http://news.bbc.co.uk

Greenhouse effect explanation from http://kids.britannica.com

<u>Greenhouse effect explanation</u> from http://climatekids.nasa.gov