

Brentside Knowledge Organiser - Science

Year: 6

Topic: How is the climate changing?

National curriculum: Earth and space. Global warming, deforestation, pollution

What I should already know:

- The capital cities of the four countries that make up the United Kingdom, their characteristics and surrounding seas of the United Kingdom.
- Land-use patterns in the local area and how they have changed over time.
- The terms urban and rural and use them to describe areas of the UK.
- How to locate places using four figure grid references.
- How to identify features such as hills, mountains, coasts and rivers on a map.

What I should know at the end of the topic:

What is climate change? across the world.	Climate change is a term used by experts when describing the way that both weather and climate systems are changing as a result of mankind's industrial activity
What is global warming?	Global warming (a large part of climate change) is the increase in temperature of Earth. Hotter weather might sound lovely but the reality is very different.
What is deforestation?	Deforestation is the name given to the destruction of the rainforest and this is being done by burning them down, chopping down the trees or flooding the areas
What is renewable/ non-renewable energy?	Renewable energy comes from natural resources that are naturally replenished, such as sunlight, wind and waves. Non-renewable energy comes from natural resources that are not naturally replenished, such as oil and coal.
What is a carbon footprint?	The amount of carbon you produce as a result of your daily activities is known as your carbon footprint. Everything we do has an impact on the environment. If we made small changes to our daily routine, we could reduce our carbon footprint and have a positive effect on the environment

Investigate:

How does global warming affect our school and lives?

Diagrams:



Vocabulary

Climate	The weather conditions in an area in general or over a long period.
Climate Zone	Climate zones are areas with distinct climates
Erosion	Erosion is the wearing away of the land by forces such as water, wind, and ice.
Weathering	Weathering is the process where rock is dissolved, worn away or broken down into smaller and smaller pieces.
Global Warming	The increase in Earth's average temperature over a long period of time.
Deforestation	Deforestation is the clearing, or cutting down, of forests.
Renewable Energy	Renewable energy uses energy sources that are not "used up". For example, solar power from the sun is renewable as we won't "use up" all the sunlight from the sun.
Sustainability	Sustainability means using natural resources in a way that we could keep doing for a long time.
Carbon Dioxide	Doing something that burns fuel will make carbon dioxide gas in the smoke.
Carbon Footprint	The term carbon footprint is how much carbon goes into the air because of something done by people.