

Knowledge Organiser



Year 5, Summer 1: Geography
Topic: Climate Change
Why Is the Earth So Angry?

Key Vocabulary

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| Biomes | There are five major types of biomes: aquatic, grassland, forest, desert, and tundra |
| Climate | the weather conditions prevailing in an area in general or over a long period. |
| Climate Change | a change in global or regional climate patterns |
| Climate Zones | A climate zone is an area that has its own distinct climate. They also have their own type of vegetation and wildlife. Some of these zones found around the world include: Temperate - Mild temperatures and moderate rainfall. Tropical - Warm temperatures and lots of rain. |
| Radar | Instrument used to measure precipitation |
| Satellite | used to observe cloud patterns around the world |
| Temperate | having a moderate climate which especially lacks extremes in temperature |

What will I know about Climate Change by the end of this topic?

- Climate is the weather conditions in an area over a long period of time
- Weather is monitored through satellites and radars which recognise cloud and rain patterns
- Climate Change is the change of patterns associated with climates. Biomes are said to be changing and shifting due to the Human and Physical processes of Climate Change
- Human and Physical processes such as the release of greenhouse gases, deforestation and melting ice- caps are some of the causes of climate change. We will explore the effects of climate change too.
- The economic and social impact of Climate Change: more wind farms and solar panels are being distributed in the UK as well as different types of irrigation systems around the world to help with reduced rainfall and droughts.
- Compare and Contrast Climate change within Biomes
- How can we help to make a difference in saving our world? What will be our next steps?

Tundra regions are one of the coldest of the biomes. They are treeless and also receive low amounts of precipitation, similar to a desert.
Animals – muskox, snowy owl, caribou.
Habitable? - In total, only about 4 million people live in the Arctic worldwide. In most countries indigenous people (e.g. Inuit people) make up a minority of the Arctic population



Biomes

Tropical Rainforests are found close to the equator where the climate is warm and humid.

Animals - jaguar, sloth, anaconda

Habitable? - Rainforests are home to tribal peoples who rely on their surroundings for food, shelter, and medicines.



Temperate forests have four relatively distinct seasons. The temperature varies widely from season to season with cold winters and hot, wet summers.

Animals – rabbits, bears, beavers

Habitable? - Temperate forests are inhabited by humans but humans are also a major threat to this biome.



Deserts have the driest climate of all of the biomes. The temperature varies greatly depending on the location of the desert.

Animals – camel, fennec fox, kangaroo

Habitable? – The lack of rainfall makes it difficult for humans to survive in deserts - it is also hard for animals, plants and other forms of life.



Grasslands are generally open and fairly flat areas of grass. Their climate is dependent on latitude, temperature can range can be between -20°C to 30°C..

Animals – elephant, tiger, lizard

Habitable? - About 800 million people around the world live in grasslands.

