

Sequence of learning					
Space	Space and Scale	Scale and Space	Place and Scale	Scale and Space	Scale
What is climate?	How does location impact climate?	What is happening to our global climate?	What is causing these changes?	How does this impact the natural world?	What is Climate Change?
Re-cap equator, polar, tropics, climate zones.	Climate zones, weather patterns in areas etc.	Look at aerial photographs- taken nasa website of the Earth- same locations years apart. What changes do you notice? Forest fires- Australia	Co2 emissions Sources of pollution Hole in the ozone layer	Learn about 2 different locations. Polar regions: Melting of ice caps Polar bears- less sea ice meaning can't hunt as effectively Walrus' Great barrier reef: Rising sea levels Increasing sea temperature Knock on effect of food chain Acidity levels of the ocean changing	Answer key question using learning from previous weeks. Structure in 3 paragraphs. What is happening? What is causing? How does this impact natural world?
-To know characteristics of places on a global level. -To use maps, including virtual maps, to identify features and locations.	-To know characteristics of places on a global level. -To use maps, including virtual maps, to identify features and locations. -Can I begin to recognise the climate of a given country according to its location on a map?	-Can I recognise changes to landscapes and places over time through natural and human geographical processes and events? -Do I know the effects of global climate change on places? - To use satellite images and aerial photographs.	-Can I report on ways in which humans have both improved and damaged the environment? -Can I interpret geographical data and information from data tables, column graphs, climate graphs and multiple graphs on a geographical theme. -Can I analyse statistics to find patterns?	-Can I explain what a place (open to environmental and physical change) might be like in the future? -To recognise short and long term implication of environmental change? -Do I know the function and importance of the environment?	-To present findings, arguments and explanations in writing.

Vocabulary

floods, environment, landscape, features, climate, rainfall, climate zones, hurricane, monsoon, biome, zone, issue, environmental quality, pollution, conservation, latitude, longitude, region, aerial photograph, temperature, wildlife, habitat, country, continent, position, equator, polar

Intended outcomes:

To know:

- Climate weather and the weather patterns in an area.
- Climate is dependent on location in relation to the equator, earths tilt and time of year.
- Over time our global climate is changing and the global temperature has increased.
- The ozone layer is a layer of gas surrounding the Earth’s atmosphere that insulates Earth from the power of the Sun.
- Co2 emissions are eroding the ozone layer therefore allowing more of the Sun’s rays to reach Earth and increase our global temperature.
- Co2 can be emitted from cattle, humans, machinery, production of energy, burning of fossil fuels and vehicles.
- The increased global temperature is causing environmental change.
- Environmental change impacts eco-systems, food chains and population of animals in given areas.
- Rising global temperatures can cause extreme weather patterns.
- In recent years, there has been an increase in extreme weather events.

Expert outcome:

Answer key question using learning from previous weeks. Structure in 3 paragraphs:What is happening? What is causing?How does this impact natural world?

Previous Learning:

Children have engaged with learning about natural disasters in Year 3 and Year 4.

Preparing for:

In Year 6 the children will learn about how to address the impact of climate change through renewable energy.

Bespoke to our school:

Immingham is considered a hotspot for renewable energy and many of the businesses the school works with are in the energy sector therefore the children need this knowledge in order to engage with the Year 6 project.

Resources and Actions

Inflatable globe, climate zone map,

<https://climate.nasa.gov/images-of-change?id=726#726-forest-regrowth-on-alaskas-admiralty-island>