| | | Hemingbro | ugh Geography C | urriculum | |
|---|---|--|--|---------------------------------------|--|
| Theme: Polar Biomes | Phase: Upper Key S | tage Two | Year Group: 5 | Strand: Lo | ocational Knowledge / Human & Physical Geography |
| understand and recognise hu | | ne distributior | n of natural resources | energy, food | energy, food, minerals and water d, minerals & water. |
| In Year 1 & 2 I s e & locate the 7 continents and 5 oce e hot and cold places on a map of the | | | , | the position and Antarctic Circle; | Year 3 & 4 I should have already learned: d significance of the Northern and Southern Hemisphere, and the Arctic a ; rivers, mountains, earthquakes and the water cycle. |
| | | | | | There's, mountains, cartiquakes and the water cycle. |
| CEIMATE | | a Polar Biome? | LANDSCAPE | | |
| Long cold winters, with annual temperatures mostly below all year | | ll year round | ment which is cold and dry ind and is 99% covered by such as Antarctica . | | The ground is frozen. The summer is very short. |
| Polar areas are often windy, with ve WHAT IS PERMAF | | ska strand | | | Most plants are not able to grow their roots beneath the top soil or receive enough nutrients from the soil to sustain thei growth. |
| The thin layer of top-soil in the arct the summer months, but it is perma the ground – this is pe Permafrost is any ground that remai | mently frozen beneath rmafrost . | green = | Arctic Tundra | | Plants that are usually short and sprawling Barren landscape. |
| 32°F (0°C) or colder—for at least | and the second se | and a second | | Anter Links | |
| Permafrost covers approximately surface. | y 20% of the earth's | Active Layer | Lice Wed | lge | Arctic Tundra |
| The amount of permafrost is shrin increases in global temp | | rmafrost | | | e -5 J F M A M J J A S O N D -4 so recipitation |
| Permafrost is very challenging to bu the reasons that very few people | | | | | 20 -25 |
| | Find out more | e at: <u>https://o</u> | climatekids.nasa.go | v/permafros | -30 Month 0 |

| | KEY VOCABULARY | | |
|----------------|---|--|--|
| arctic | The area of the world around the North Pole. | | |
| barren | A barren landscape is dry and bare and has very few plants and no | | |
| | trees. | | |
| biome | A natural area of vegetation and animals. | | |
| climate | The general weather conditions that are typical of a place. | | |
| climate change | Changes in the earth's climate, especially the gradual rise in | | |
| | temperature, as a result of human activity. | | |
| continent | A very large area of land that consists of many countries. Europe is a continent. | | |
| global | Something that happens in all parts of the world or affects all parts of the world . | | |
| habitat | The natural environment in which an animal or plant normally lives or grows. | | |
| harsh | Harsh climates or conditions are very difficult for people, animals, and plants to live in. | | |
| landscape | Everything you can see when you look across an area of land, including | | |
| - | hills, rivers, buildings, trees, and plants. | | |
| nutrients | Substances that help plants and animals to grow. | | |
| ocean | One of the five very large areas of salt water on the Earth's surface. | | |
| permafrost | Land that is permanently frozen to a great depth. | | |
| permanent | Something that is permanent lasts for ever. | | |
| plain | A large flat area of land with very few trees on it. | | |
| polar | Near the North and South Poles. | | |
| sustain | Continue or maintain something for a period of time. | | |
| tundra | A flat layer of land where the top layer is frozen. There is hardly any | | |
| | vegetation. | | |
| vegetation | Plants, trees and flowers. | | |

Key Skills I will develop:

Enquiry Skills

- Investigate the facts and join in a reasoned discussion.
- Generate solutions and promote environmentally friendly ideas. ٠

Map Skills

Confidently use maps, globes and Google Earth using 4figure grid-references. •

Field Skills

Undertake environmental surveys, using the data to draw conclusions and linking to the • beliefs and experiences of different people.

Communication Skills

- Use graphs, charts, data and measures to show findings of field work, drawing conclusions • and making comparisons.
- Explain the climates of given countries in the world and relate this to knowledge of the ٠ hemispheres and the Equator.

| FUN FACTS! | | | | |
|---|--|--|--|--|
| The Arctic consists of The Arctic Ocean and parts of Canada, Russia, the USA, Greenland, Greenland, Norway, Finland, Sweden and Iceland. | | | | |
| Because of the Earth's tilt, for at least one day a year there is a full day of entire darkness and also a full day of sunshine. | | | | |
| Temperatures can drop as low as -70! | | | | |
| Approximately 4 million people live in The Arctic | | | | |
| The indigenous people of The Arctic are called Inuits. | | | | |
| Inuits have adapted physically to survive in the harsh arctic environment. | | | | |
| In 1958, a submarine (USS Nautilus)sailed below the Arctic Ocean proving that | | | | |

the enormous ice sheets rest on water, not land. Many living creatures inhabit the Arctic: polar bears, arctic foxes, walruses, seals and whales

Narwals (known as sea unicorns) live in the Arctic.

10% of the world's fresh water is in The Arctic.

The white of the ice reflects the sunlight, keeping the region cool and our global climate stable.

