

Big Question: Where are the Frozen Kingdoms?

LQ1	What is a frozen kingdom?
LQ 2	How is the Earth divided?
LQ 3	How much daylight is there at the poles?
LQ 4	What are the geographical similarities and differences of Antarctic and Arctic regions?
LQ 5	How has climate change affected the ice caps?
LQ 6	Who lives in Polar Regions?
End Product	Design and make gloves/a coat for a polar explorer
Links to previous topics	Animals, including Humans (Year 5 and Year 3). Explorers (Year 1)
Equality Diversity Inclusion	Discuss the rights of native people
Character Curriculum	Empathy Teamwork



Sticky Knowledge about Frozen Kingdom

- The Arctic is an ice-covered ocean surrounded by continents.
- The Arctic region is found in the Northern Hemisphere and includes parts of Canada, Alaska, Russia, Finland, Sweden, Norway, Greenland and Iceland.
- Temperatures can reach -68°C in the winter months, making it one of the coldest places on Earth.
- The Arctic region is home to small populations of people (Inuits) alongside an amazing variety of animals, including the polar bear, the arctic fox and the walrus.
- The Antarctic is in the Southern Hemisphere at the very bottom of the Earth.
- Ernest Shackleton led an expedition to Antarctica in 1914
- The North and South poles experience 24 hours of daylight in Summer and 24 hours of darkness in the winter.
- Auroras are displays of coloured lights seen in the skies near the North and South Poles. The lights are created when electrically charged particles from the Sun collide with oxygen and nitrogen gas particles in the Earth's atmosphere.
- The Antarctic is a continent surrounded by ocean. It is covered in an ice sheet that is up to 4.8km thick.
- It is the coldest, driest and windiest continent on Earth. Temperatures can reach -89 °c, there is no precipitation and wind speeds can reach 80km per hour in some areas.

Exciting Books



Vocabulary

Longitude, Latitude, Time zones, Arctic, Antarctica, horizon, temperature, glacier, Northern Lights, snow, ice, iceberg, icicles, glacier, expedition, igloo, Inuit, Continent, climate, explorer, expedition, global warming, navigate, pollution, Shackleton, Titanic.