



# Moorside Community Primary Academy - Theme Overview

Year: 4 Term: A2 Theme: Antarctica

## Key Learning

1	Where is Antarctica /the Arctic	Identify on a map. Look at its location to find out why it is so cold. Why is it a desert?
2	Climate	What is the climate like at the Poles? Why is this? Learn about the equator & tropics.
3	Animals	What animals are found in polar regions? How are they adapted for survival (link to science - habitats)
4	Landscape features	Study the physical features of the landscape eg crevasse. How is it different to where we live?
5	Weather conditions	Temperature, snowfall, rainfall, wind, blizzards.
6	The race to the pole	The story of Scott & Amundsen & the race to the pole
7	Equipment	How does an expedition stay safe and survive in extreme conditions
8	Ernest Shackleton	Study the story of Ernest Shackleton (Diary Entry)
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## Key People/Places/Facts

1	Robert Scott	British explorer
2	Roald Amundsen	Norwegian explorer
3	Ernest Shackleton	British explorer
4	The Discovery	The ship that was built for the expedition to Antarctica
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## Big Questions

1	Does the way we live contribute to climate change?	
2	Can we do anything to slow down climate change?	
3	Why do people want to explore hostile places?	
4	Why is Antarctica known as a desert?	
5	Can humans survive in extreme cold?	

## Vocabulary

bleak Abundant diversity	Frozen Transparent journey
Distribution Sledge numbing	Companion Classification
Waterproof Extinct hostile	Insulation Pollution endangered
Avalanche Ice axe	Pack ice Zooplankton
Promontory Frostbite	Latitude Longitude
Floe conservation	Diatom Scavengers
Climate change Drake Passage	Unique Distinctive
Wilderness Collaboration	Remote microscopic
Guano krill	Peninsula glacier
Continent desert	Expedition blizzard

## ENGLISH

### Reading:

- Bug Club - Mary Anning.
- Topic linked non fiction

### Grammar knowledge:

- Apostrophes - contraction & possession.
- Noun phrases.
- Adverbs/ adverbials.

### Writing opportunities:

- Animal fact file (as a power point)
- Diary entry (Shackleton)
- Setting description
- Adventure story
- Winter poetry
- Book review (Mary Anning)

### Book/Author:

- The Explorer - (for pleasure)
- Antarctic Journal

## MATHS

- Doubling & halving
- Multiplication & division
- Area & perimeter
- Missing number problems
- Handling data
- Multiplying by 10 and 100

## ENRICHMENT

Remembrance  
Peace & Hope Week  
Author Visit - Sean Perkins  
Carol Concert

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## ART & DESIGN

Sketching a variety of animals in their habitats. We will be using live images, paintings and pictures taken from the Antarctic. Chn will sketch using different materials. Design and make a glove puppet of an arctic or Antarctic animal - join by sewing & decorate using various materials. Chn will make a diorama of polar animals.

## MUSIC

Charanga - Mama Mia. Learn to listen for pulse/ rhythm/ pitch. Listen and appraise. Learn the song.

## PE

Striking & fielding & Athletics - delivered by WLSSP.

## COMPUTING

Learn how to create a power point presentation. Chn work in pairs to present a fact file of animals found in the Antarctic as a PPP.

## SCIENCE

### Living things and their habitats

- Classify living organisms using classification keys.
- Recognise that changing environments pose dangers to living things (global warming).
- Construct and interpret food chains.
- Children will, through their topic work, learn about global warming and the effect of this on Antarctic wildlife (also how this can be prevented).
- Children will learn about the adaptation of animals to suit their environment.
- MRS Gren about life processes (inc plants).
- Children will compare temperatures from inside and outside the classroom with Antarctic summer/winter.
- Children will learn about biomes across the world and how they differ from our local environment.

### Vocabulary:

Diversity, classification, habitat, vertebrate, invertebrate, pollution, endangered, characteristics, conservation, excretion, nutrition, sensitivity, respiration, single celled, ecosystem

## SEAL/PSHE-

SEAL - Getting On & Falling Out

PSHE - Jigsaw - working as a school community; the roles of everyone in school; children's rights & safeguarding.

RE- Celebrations in different faiths - Hannukah, Christmas, Diwali - how are the celebrations of these faiths similar & different?

LANGUAGES - learn parts of the body, label body parts, play Simon says (Jaques a dit).