

## Science

In science we will be classifying animals found in the Antarctic according to their characteristics. We will also be identifying how animals and plants are adapted to suit their environment. We will also focus on the different ways adaptation may lead to evolution.

## History

Research information about the Titanic and what caused the ship to sink. Discover the different conditions for poor and rich people on board the grand ship. Cross-curricular writing—write as a passenger describing their experiences. Write as both a rich and poor person to highlight the differences. Become a history detective and decide who you think was to blame for the sinking of the ship!

## Geography

Research on the conditions in the Arctic and Antarctic, looking at the environment, lifestyle of the indigenous people and animals. Look at the average temperature differences of the two regions over the course of a year and construct line graphs displaying the information.



## PSHE

The topics we will cover this half-term include: care of the environment; confidentiality and when to break a confidence; managing dares; different types of relationships; physical boundaries and the right to privacy; and the characteristics of a good leader.

Memorable experience making a giant iceberg! Freeze water in a large balloon or plastic bag. Children use different materials to see which will cause the water to melt quickly.

# FROZEN KINGDOM



Welcome to the planets coolest lands...vast wilds, hostile territories, incredibly beautiful yet often deadly. Take shelter from the elements or fall prey to icy winds and deepest chill. Trek bravely and valiantly across treacherous terrain. Be alert for the magnificent mammals that roam the land! Become part of an Antarctic rescue team, that research facts and figures of climate, temperature, habitats and eco-system.

## Innovate

Children will use their knowledge and skills they have built up over the topic to become part of an Antarctic rescue team, braving the elements to rescue passengers from a ship struck by a deadly iceberg.

## Literacy:

Non Chronological report  
Children will be studying a Book called Ice Trap Ernest Shackeltons Incredible expedition.  
Non Chronological report -  
Write a non chronological report based on the Antarctic.  
Short narrative-  
Write a short narrative based on an expedition to the Antarctic.  
Writing a poem describing being stuck in a storm.  
Newspaper report  
Write a newspaper report based on Shackeltons incredible expedition.

## Maths

In numeracy we will be converting units of length and distance followed by exploring units of mass, volume and time. Following this, we will move on to solving complex word problems using the four operations and bar model diagrams. Through out this half-term we will also be practising SATs style questions in reasoning, problem solving and mental arithmetic.

## PE

This half-term the children will be focussing on gymnastics., i.e. jumps, leaps, rolls and linking movements.

## DT

Recreating pieces of modern Inuit art including 'The enchanted Owl' by artist Kenojuak Asheva. Creating textured drawings of icebergs using paints and polystyrene. Creating our very own inuksuks landscapes using polystyrene for printing. Making igloos using clay. Recreating the Northern and Southern lights using water colours.

# HOME LEARNING

Imagine that Earth has entered another Ice Age. Write a diary-style piece describing the changes and how the human race has adapted to cope.

Use a range of snowy images to create a polar collage. Remember to use lots of interesting textures, shapes, colours and patterns.

Find out what natural resources and raw materials are reaped from the Arctic. What impact does this have on the environment?

Make 'iced jewels'. Mix powder paints and dyes into water, in an array of colours. Pour into an ice cube tray before freezing overnight. Pop the cubes out and explore your iced jewels. What happens if you sprinkle salt on the cubes?

Create your own Arctic and Antarctic word search puzzles using all the new words you have learned during the project. Challenge a grown-up to solve it!

Make a model of your favourite Arctic animal using clay, dough or recycled materials. Take it into school and explain how you made it.

Design a pair of snow boots for an Arctic explorer. What materials would you use? What features could they have? Let your imagination run wild!

Imagine a common domestic animal became an inhabitant of the Arctic or Antarctic. How would it have to adapt to survive there? Longer, thicker hair? What else? Rename your common animal with a more exciting 'polar' name!

Create a poster or brochure for a new travel company which arranges visits to the Arctic or Antarctic. Use powerful images and text to tempt customers who want an extra-special trip!