

Cosgrove Village Primary School

Mathematics:

Children are fluent in the fundamentals; rapid and accurate recall with varied opportunities to apply to problems. Pupils can reason mathematically by following a line of enquiry.

Key areas with interconnected and fluent links between mathematical ideologies (written and mental):

Number - problem solving problems linked to expedition

Measurement - sledge weight, distances, times

Geometry - Endurance/James Caird direction and navigation, pack ice drifting

Statistics - Sledging rations, temperature (readings)

Ratio/proportion/algebra - link to recipes for pemmican, DT structures e.g. tent building

Computing

Use of book creator app to create an Antarctica book with the green screen app.

Use of Tellagami app to present news reports about Shackleton.

Art, Design & Technology:

We will create mittens from materials after investigating them for their properties.

Exploring the images captured by Frank Hurley during Shackleton's expedition. Creating relief work inspired by the 'Endurance' ship.

PHSE and British Values Education:

Jigsaw Unit - Dreams and Goals

Exploring Growth Mindset work.

Music:

Preparing for the VIAM concert at the SSE Arena in London.

Ice Explorers... Class 3

Geography

Children gain knowledge, curiosity and fascination of the physical and human processes in an extreme environment.

Locational Knowledge: position and significance of latitude, Antarctic Circle, time zones

Human and Physical: Economy, Antarctic Treaty, glaciers, iceberg/landmass and water cycle

Skills and Fieldwork: maps/ atlases (1914 and today - link to exploration), compass direction (at pole?!), keys, compare to locality (height above sea level, scale e.g. how many UK's can fit in Antarctica etc)

Physical Education

Indoor: Gymnastics

Outdoor: Netball

Religious Education

Religions in our community

English

Writing, Spelling, Punctuation and Grammar

Children can speak and write fluently to communicate their ideas and emotions. Clear, accurate and coherent writing in a range of styles to be elicited from written tasks linked to personal experiences, experiences of others, real events, poetry and the use of role play.

• Formal/informal (letter home Vs letter to King)

• Non-chronological report (arctic animals)

• Instructional Writing (how to pitch a tent)

• Non-fiction- fact book on Antarctica

• Audience (newspaper report, biography)

• Classic poetry (linked to time)

• Debate and presentation (speaking and listening) Join Shackleton's crew?

Reading - Pupils can develop confidence and competencies in both the speedy working out of new, unfamiliar 'decoding' words and the skill of comprehension via high-quality discussions with the teacher and immersion in a range of rich and varied stories, poems and non-fiction.

• Mrs Chippy's Diary - Biographical writing

• You wouldn't want to be on Shackleton's Polar Expedition, Jen Green - non-fiction/recount

History

Children can ask perceptive questions, think critically, weigh evidence, sift arguments and develop perspective and judgement of an element of British past and that of the wider world.

A study of a theme of British history that extends pupils' chronological knowledge beyond 1066 - The Heroic Age of Antarctic Exploration (End of 19th Century)

Science:

Children work scientifically by asking questions, observing systematically, performing practical enquiries, recording, reporting, evaluating and concluding their findings using scientific explanations and evidence which link back to the enquiry focus; analysing the outcomes.

Opportunities to gain scientific knowledge and conceptual understanding linked to programme of study:

• Animals including humans - nutrition and diet, calorie consumption (foods) and energy used

• Forces and magnets - magnetic poles, friction and buoyancy/water resistance e.g. boat building

• Habitats/Evolution and Inheritance - Penguins or Polar Bears, how animals and plants are suited to/adapted to an extreme environment

• States of Matter - Ice/seal blubber: Solids, liquids and gas/heating and cooling, reversible/irreversible

• Materials - Convert the James Caird to a sea worthy vessel

• Earth and Space - movement of earth, daylight hours at the south pole at different times of the year