

# Year 4 - Spring Term 1 - Antarctic Adventures (Science Focus)

## English - Key Texts: Shackleton's Journey by William Grill

**Writing Genres:** persuasive speech, newspaper report, poetry, diary entries, mayday message, biographical writing

### N/C OBJECTIVES:

#### Reading: Comprehension:

- ... drawing inferences such as inferring characters' feelings, thoughts and motives from their actions and justifying inferences with evidence
- ... predicting what might happen from details stated and implied
- ... Retrieve and record information from non-fiction

#### Writing: Punctuation and Grammar

- ... using fronted adverbials with commas after them
- ... use of inverted commas and other punctuation to indicate direct speech or to write a quote
- ... use paragraphs to organise ideas around a theme
- ... appropriate choice of pronoun and noun within and across sentences to aid cohesion and avoid repetition

#### Writing: Composition

##### Plan their writing by:

- ... discussing writing similar to that which they are planning to write in order to understand and learn from its structure, vocabulary and grammar ...discussing and recording ideas

##### Draft and write by:

- ...composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures ...organising paragraphs around a theme... in non-narrative material, using simple organisational devices

**Evaluate and edit by:** ...assessing the effectiveness of their own and others' writing and suggesting improvements... proposing changes to grammar and vocabulary to improve consistency, including the accurate use of pronouns in sentences ... proof-read for spelling and punctuation errors

**Spelling: Homophones, words with apostrophes used to mark plural possession, -tion suffix**

**N/C OBJECTIVES:** - spell further homophones, place the possessive apostrophe accurately in words with regular plurals and in words with irregular plurals

**Handwriting: focusing on correctly forming f, q and k.**

**N/C OBJECTIVES:** - use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left unjoined. Increase the legibility, consistency and quality of handwriting.

## Maths - Multiplication and Division

### N/C OBJECTIVES:

- ... recall multiplication and division facts for multiplication tables up to  $12 \times 12$
- ... use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
- ... recognise and use factor pairs and commutativity in mental calculations
- ... multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- ... solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects

### Basic Skills

- ...recall multiplication and division facts to  $12 \times 12$

## Art and Design

To create a landscape image of Antarctica using own selection of colours and understand how different colours convey different meanings.

### NC Objectives

- ...taught about great artists in history.
- ...improve their mastery of art and design techniques, including drawing and painting with a range of materials (eg pencil, charcoal, paint)



# Antarctic Adventures



## Science - States of Matter

- ...sort and group different materials based on their state of matter
- ...observations on materials that are heated/cooled
- ...explain whether changes that have occurred to different materials are reversible or irreversible
- ...observations on how water changes state when heated or cooled, and a focus on the temperature in which this happens
- ...label diagram of water cycle and explain how it works
- ...create own mini water worlds to demonstrate the water cycle in action

### NC Objectives

- ... compare and group materials together, according to whether they are solids, liquids or gases
- ... observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius ( $^{\circ}\text{C}$ )
- ... identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

### Science - Topic links

### NC Objectives

- ... (Animals Including Humans) - Construct and interpret a variety of food chains. Identifying producers, predators and prey.
- ... (Living things & habitats) - Recognise that environments can change and that this can sometimes pose dangers to living things.

## Geography

- ...label a map showing continents, oceans, hemispheres, poles and significant lines of latitude.
- ...use maps, globes and digital resources to locate countries and describe features of Antarctica.
- ...understand how navigation uses compasses & grid references.

### NC Objectives

- ...using maps locate the world's continents and oceans; identify position & significance of latitude, Equator, Northern & Southern Hemisphere, the Tropics of Cancer & Capricorn, and Arctic & Antarctic Circle;
- ...describe and understand key aspects of physical geography: climate zones, mountains and the water cycle
- ...describe and understand key aspects of human geography: types of settlement and land use
- ...use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied
- ...use the eight points of a compass and four & six figure grid references, symbols & keys to build knowledge of the world

## PE: Swimming

For the rest of the year, children will be attending weekly lessons at Sowerby Bridge swimming pool. During lessons, children will gain confidence in the water, learn about water safety and ultimately learn how to swim unaided.

### N/C OBJECTIVES:

- ... swim competently, confidently and proficiently over a distance of at least 25 metres.
- ... use a range of strokes effectively such as front crawl, backstroke and breaststroke.
- ... perform safe self-rescue in different water-based situations.

## History

... study of famous Antarctic explorers and how they fit into other known historical periods/with other historical people studied.

### NC Objectives

- ... pupils should continue to develop a chronologically secure knowledge and understanding of British and world history

## Computing - Purple Mash-Unit 4.1 Coding using the programme- 2Code

### N/C OBJECTIVES:

- ...use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- ...design, write & debug programs.
- ...use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour

## MFL (French)

Learn the letters of the alphabet in French and use them to spell words. Ask what another person is called.

### N/C OBJECTIVES

- ...listen attentively to spoken language and show understanding by joining in and responding
- ...engage in conversations
- ...ask and answer questions
- ...speak in sentences using familiar vocabulary

## Music

We will continue to learn how to play the Djembe drum and understand its cultural importance in African society.

### N/C OBJECTIVES:

- ... play and perform in solo and ensemble contexts, playing musical instruments with increasing accuracy, fluency, control and expression.
- ...appreciate and understand a range of high-quality recorded music drawn from different traditions
- ...develop an understanding of the history of music

## PHSCE Core Theme 1: Health and Wellbeing

### OBJECTIVES

- (Agreed PSHE Association P.O.S)
- ... to recognise, predict and assess risks in different situations and decide how to manage them responsibly (including sensible road use and risks in their local environment) and to use this as an opportunity to build resilience
- ... to differentiate between the terms, 'risk', 'danger' and 'hazard'

## RE

Explore the concept of leadership. Introduction to Jesus, Prophet Muhammad and Moses as important leaders. Characteristics of leaders, why they are inspirational, and how they taught key elements of their faith. Impact of them on society.

### N/C OBJECTIVES:

- Calderdale agreed syllabus.
- Unit: 4.2 - Who can inspire us?

## Maths Creativity Link

Understand 4 and 8 point compasses and how they are used with grid references for navigation.

## English Creativity Link

Write a non-chronological report about Antarctica, showing casing information they have learnt in all areas (eg. habitat & climate, animals, explorers)

## The Arts Core Subject Link

- ... use of songs and rhymes to support the learning of multiplication facts
- ... use of role play to perform conversations between Shackleton and his men
- ... hot seating

## UNCRC:

Articles: 28, 29, 30, 42

## Values

Friendship and Hope (January)  
Love and Patience (February)

## SMSC/ British Values

- Spiritual- Respect faiths, feelings and values; enjoy learning about others and the surrounding world
- Moral- investigate moral and ethical issues; offer reasoned views.
- Social- participate as a member of the school community; appreciate different viewpoints.
- Cultural- Appreciate cultural influences; understand, accept, respect and celebrate diversity.

## Trips & Visits

Weekly swimming lessons at Sowerby Bridge Pool  
Year 4 Pedestrian training