

# MATHS

## Ratio

Add or multiply? Use ratio language and symbol; Ratio and fractions; Scale drawing and scale factors; Similar shapes; Ratio and proportion problems; Recipes

## Algebra

1-step and 2-step function machines; Form expressions; Substitution; Formulae; Form equations; Solve 1-step and 2-step equations; Find pairs of values; Solve problems with two unknowns

## Decimals

Place value within 1; Integers and decimals; Round, add and subtract decimals; Add and subtract decimals Multiply and divide by 10, 100 and 1,000; Multiply and divide decimals by integers and in context



# ENGLISH

Diary of an polar expedition

Poetry: Polar landscapes

Newspaper Report: Titanic

Persuasive Writing/Debate:

Impact of tourism in Antarctica

Poetry: New and Collected

Poems for Children by Carol Ann Duffy

Narrative poetry

The Cremation of Sam McGee by Robert Service (From Once Upon a Poem)



# YEAR 6 TERM 3

## From Titanic to the Tundra

# GEOGRAPHY

## From Titanic to the Tundra

How do human and physical processes interact in the Arctic and Antarctica?

- What do we know about polar regions?
- What is the polar landscape like?
- Why do the polar regions experience the largest differences in daylight?
- What natural resources are available in the Arctic?
- How do the climate and landscape affect the lives of people in the Arctic?
- What is the impact of tourism in Antarctica?



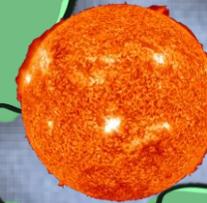
# SCIENCE

## Physics - Light

How we see; Light and straight lines; Shadow formation; Plan, investigate and evaluate - shadow experiment; Refraction; Explore light

## Sustainability - Light Pollution

What is light pollution? How can we reduce light pollution?



# ENRICHMENT

## Virtual polar expedition

Complete a virtual polar expedition: Map the route, complete a log of weather, wildlife, flora, fauna, people and human and physical features.



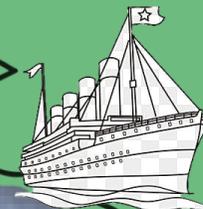
# WE ARE READING.

*The Last Bear* by Hannah Gold  
*Antarctica a Continent of Wonder* by Maria Cuesta Hernando  
*The Story of Snow, the Science of Winter's Wonder* by Mark Cassino  
*Ernest Shackleton: Little People, Big Dreams* by Maria Isabel Sanchez Vegara  
*Tragedy At Sea* by David Long



# KEY DATES

Monday 5<sup>th</sup> January: Start of Term 3  
 Thursday 12<sup>th</sup> February: Last day of Term 3  
 Friday 13<sup>th</sup> February: Staff development day





# YEAR 6 TERM 3

## From Titanic to the Tundra

### MUSIC

#### Charanga:

#### A New Year Carol

Learning is focused around one song from Benjamin Britten's Friday Afternoons: A New Year Carol. Research Benjamin Britten's life and to listen to many of his other works through links to <http://fridayafternoonsmusic.co.uk/>

### SPANISH

Spanish meals and traditions

### R.E

#### Why is it better to be there in person?

Explore factors that can shape someone's experience of a religious or non-religious event. Understand the significance of places for some Jewish and non-Jewish people. Evaluate the rules around attending significant places. Consider the challenges that many Muslims may face when travelling to Makkah. Understand the significance of attending a non-religious event as a Humanist. Explore the concept of pilgrimage and its relevance in the UK.

### P.S.H.E

#### Dreams and Goals

- Personal learning goals, in and out of school
- Success criteria
- Emotions in success
- Making a difference in the world
- Motivation
- Recognising achievements
- Compliments



### P.E

#### Gymnastics

Perform sequences, building on previous learning - key shapes, balances, movement and travelling, and skills to work in pairs, small groups and individually; Applying compositional principles fluently and effectively.

#### Basketball

Create short warm up routines that follow the basic principles Evaluate success to improve performance

### ART

#### Frozen Kingdom

We will be looking at the work of artists Ted Harrison and Olivia Pilling and creating collage fish. We will be discussing and creating art involving landscapes, bears and the indigenous people through animals

### COMPUTING

#### Online Safety

Benefits and risks of devices giving the user/device location and personal information and access to different software; Identify secure sites; Digital footprint; appropriate online behaviour; Understand how what they share impacts on themselves and others long-term; importance of balancing game and screen time with other activities; positive and negative influences of technology.

### D.T

#### Digital world: Navigating the world

Design and program a navigation tool to produce a multifunctional device for trekkers using CAD 3D modelling software. Pitch and explain the product to a guest panel!

