



**Arctic and Antarctic
Physical Geography**

Activities
Understand the need for fair testing and reproducibility.
Make accurate measurements and record findings.
Investigate materials that will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
Make saturated solutions. (Crystals)
Decide how mixtures might be separated, choosing from filtering, sieving and evaporating by looking at the materials that need to be separated.
Group together everyday materials based their properties such as their hardness, solubility, transparency, conductivity (electrical and heat), and magnetism.
How much mass can a tin foil boat hold?
Does the shape make any difference?

Science
Materials
Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.
Floating and sinking.

Geography
Children to extend their knowledge and understanding beyond the local area, physical geography, including: climate zones.

Activities
Identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones (including day and night)

French
The children will continue to develop both their ability to communicate in French and their understanding of grammar, by learning a wider range of nouns, verbs and adjectives which they will use to build phrases and sentences. They will learn to tell the time and go shopping using French.

Computing
Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact. Use ICT to present work on different formats. Search copy and paste from the internet selectively.

Physical Development
There will be 2 PE lessons a week - one taught by pro-coaching and focussing on Kwik Cricket and swimming.

Activities
Ask the children to play games using familiar equipment. Listen to their views on which equipment they like best.
Teach them different ways of hitting the ball. Help them to hit the ball accurately into spaces, and to different parts of the field, when playing games.
Teach them how to position their bodies and their feet to hit the ball accurately.
Help the children to retrieve, intercept and stop a ball when fielding.
Teach them to get their body behind the ball.

English
During the term, the children will apply their non-fiction skills to recording the events leading towards the sinking of the Titanic with the aim of presenting their written work to a real audience. A unit of persuasive writing will be explored where the children will be expected to put forward convincing arguments and counter arguments.
A block of poetry will focus on the journey of the Titanic.
Narrative writing will develop the children's use of language creating atmosphere.
Guided reading sessions will build skills of inference and understanding the intentions of the writer when choosing words and phrases and use in their own writing.

Activities
Using archive video to make notes. Express likes, dislikes, feelings and empathise with the people.
Develop a timeline and research significant events of the Titanic's journey. Persuasive writing will look in more detail regarding who was to blame for the sinking. Speaking and listening will play an important part in this unit along with drama and role play.
The children will make diary entries as if they are a passenger on the liner.
Our narrative writing will be based on 'The Snow Leopard' by Jackie Morris.
The children will develop their knowledge of year 5 and 6 grammar terms and apply these to their writing.

Art and Music
Arctic in art. 3D work.
British landscape. Climate change

Classroom Jazz (2) Jazz Latin Blues
Fresh Prince of BelAir Hip Hop
Link: London music scene.

Activities
Art:
Using a variety of mixed media to express loss and change of natural habitat.

Music:
Comparing and contrasting pop ballads especially 'Make you feel my love' by Bob Dylan. We will also be exploring rap then selecting and preparing a musical show for the summer term.

Mathematics
Geometric Reasoning - use the properties of rectangles to deduce related facts and find missing lengths and angles
Additive Reasoning - Pupils can solve addition and subtraction problems in different contexts
Number Sense - Pupils can make appropriate decisions about when to use their understanding of counting (including counting below zero), place value and rounding for solving problems including adding and subtracting.
Multiplicative Reasoning - Pupils can solve problems involving multiplication.

Activities
A sample of mathematical expectations are as follows.
A weekly multiplication test will help the children with their rapid recall.
Use negative numbers in context, and calculate intervals across zero.
Find pairs of numbers that satisfy an equation with two unknowns.
Children will consolidate their understanding of ratio when comparing quantities, sizes and scale drawings by solving a variety of problems.
They will link percentages of 360° to calculating angles of pie charts.
The children will connect their work on angles, fractions and percentages to the interpretation of pie charts.
They can explain how to find the volume of cubes and cuboids and use this understanding to solve problems.

R.E
What does it mean to be a Muslim in Britain today? Children will be Identify and explain Muslim beliefs about God, the Prophet and the Holy Qur'an Give evidence and examples to show how Muslims put their beliefs into practice in different ways and make connections between beliefs studied and ways of living.

Design Technology
Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose. Select from and use a wider range of materials and components, including construction materials to develop bridges and water wheels.