



Y6 Project 3 Learning Journey: Frozen Kingdoms

This project teaches children about the characteristics and features of polar regions, including the North and South Poles, and includes a detailed exploration of the environmental factors that shape and influence them.

English English: Formality and speech Balanced argument: climate change Project writing: Speeches (linked to WW2) Class read: Sky Song	Maths Miss Watt's group: fractions, ratio, averages Mr Carter's group: ratio, algebra, averages, perimeter and area, volume Mrs Robert's group: multiples and factors, fractions	Science Living things and their habitats BIG Q: How do scientists classify living things? Investigations: Can we slow cooling down? , Why are things classified? How do animals stay warm?
Geography Arctic and Antarctic circles; climatic similarities & differences; features of polar landscapes; climate change & natural resources; BIG Q: Could polar bears be homeless by 2053?		Computing Programming Safer Internet Day
PSHE Dreams and Goals Value: Aspiration Safer Internet Day		PE REAL PE unit 3 Gymnastics Dance
French Le Week-end (The weekend)	RE What do Humanists value and why? (Humanism)	Music Master reading of musical notation and playing of recorder

Please see the knowledge organisers sent with this document to find out what skills, knowledge and understanding your child is expected to have by the end of the project.

You could pop along to the library and see if they have any of these titles:

- Arctic and Antarctic (DK)
- Research on the Edge: Polar Regions (Louise Splisbury)
- Polar Climates (Cath Senker)
- Ecographics: Climate Change (Izzi Howell)
- Polar Explorers for Kids (Maxine Snowden)
- Story of the Titanic (DK)

Useful Websites:

- Britannica Kids – Antarctica
- Britannica Kids – Arctic Regions
- Met Office – Climate zones
- National Geographic Kids – What is climate change?
- DKfindout! – Polar Exploration – Famous Polar Explorers
- Britannica Kids – Polar Exploration
- National Geographic Kids – Titanic Facts

Regular home learning

Home learning will be set every week for Year 6 pupils, and those who participate will not only be rewarded through House Points and Merits, but will reap the benefits of regular practice and revision of skills that are needed across curriculum areas and in many walks of life:

Reading: Your child should read on a daily basis for at least 30 minutes and record this in their reading record. Parents are asked to sign the reading record on a Sunday to confirm the reading home learning that has taken place that week.

Times tables: For optimum progress, pupils should play on TT Rockstars for at least 5 minutes every day. This can be accessed at <https://play.ttrockstars.com/auth/school/student>. There is also a free downloadable app for mobile devices. All pupils have a log on to TT Rockstars.

COMPULSORY Spelling: Pupils must practise online using the Spelling Shed website (<https://play.edshed.com/en-gb/login>) and the log on details provided to them. They are required to play 15 games each week.

Maths: In Year 6, pupils will be given weekly home learning. This will usually be sent home with them in a home learning book.

Grammar: This term we will also begin to set weekly grammar home learning. This will usually be sent home with them in a home learning folder or will be on spag.com .

Optional home learning challenges

- Research and record the characteristics of each of the following climate zones: polar, temperate, desert, tropical and equatorial. Give examples of places within each climate zone.
- Polar landscapes have many interesting natural features, including icebergs, glaciers, mountains, ice fields, tundra and boreal forests. Record a definition and description of each feature in a table.
- The Arctic is rich in natural resources, including oil, gas, wood, freshwater and hydropower. Draw a mind map to write a short description of each. Which of these natural resources are used, and which are largely untapped?
- Many people are concerned about the impact of climate change on the polar regions. Gather evidence to find the answers to the following questions:
 - What is global warming?
 - What is climate change?
 - What are four causes of global warming?
 - What is the impact of climate change on the planet and wildlife?
 - What are your thoughts and feelings about climate change?
- Polar animals include polar bears, emperor penguins, Siberian salamanders, Greenland sharks, emerald rockcod, walrus and Arctic terns. Compare two of these species, recording where they are found, their habitats and what they eat. Draw a detailed diagram of the two species that you compared. Add labels to identify their key features and adaptations



Inspiring the learning journey!