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Year 6 Project 3 Learning Journey: Frozen Kingdoms

In the Frozen Kingdoms project, your child will learn about the regions of the Arctic and Antarctic. They will learn about the similarities and differences between these two regions, including the climate, landscape and natural resources. They will learn how to use grid references, lines of latitude and longitude, contour lines and symbols to identify the geographical locations of the Arctic and Antarctic, and how these, along with the tilt of the Earth, affect day length and warmth. They will investigate polar oceans to learn how they differ from other oceans on Earth and how climate change increases Earth's temperature and leads to rising sea levels. They will learn about the indigenous people of the Arctic, including how their lives have changed over time, and about the positives and negatives of tourism in Antarctica. They will also learn about classifying animals, animal adaptations and evolution, and polar exploration and discovery.

Subject coverage

English	Maths	Science
Persuasive leaflet: Lapland Biography: Shackleton Narrative: arctic expedition Class read: The Wolf Wilder	Miss Ryan: Square & cubed numbers; multiples & factors; BODMAS; equivalent fractions Mr Carter: Percentages; fraction, decimal, percentage equivalence, ratio; algebra Miss Watt: BODMAS; simplifying & equivalence; mixed & improper; 4 operations with fractions	Living things and their habitats <i>BIG Q: How do scientists classify living things?</i>
History	Computing	Geography
Significant polar discoveries and events including Shackleton's endurance expedition and the sinking of RMS Titanic. Newspaper report: The sinking of the Titanic	iProgramme: visual programming using language 'Scratch' Safer Internet Day (8 th February 2022)	Arctic and Antarctic polar regions and oceans, climate change, natural resources and indigenous people <i>BIG Q: Could polar bears be homeless by 2052?</i>
PSHE	RE	PE
Dreams and Goals: How could my life choices impact on the wider world? Value: Aspirations	What do Humanists value and why?	2 more swimming sessions THEN... Gymnastics Netball
Music	French	
Playing the recorder	L'École (School)	

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 next project.

Suggested reads

Why not see what books you can find about the polar regions, the Titanic, Shackleton and the Inuits? Here are some recommended reads:

- Polar Regions (Research on the Edge) by Louise Spilsbury
- Polar Scientist (The Coolest Jobs on the Planet) by Emily Shuckburgh
- Focus on Climate Zones: Polar Climates by Cath Senker
- Shackleton's Journey by William Grill
- The Inuit Thought of It: Amazing Arctic Innovations by Alooook Ipellie
- Story of the Titanic by Steve Noon
- The Call of the Wild (Collins Classics) by Jack London
- Winter Magic by Abi Elphinstone
- Race to the Frozen North: The Matthew Henson Story by Catherine Johnson
- Brightstorm: A Sky-Ship Adventure by Vashti Hardy
- Kaspar: Prince of Cats by Michael Morpurgo

Remember, you also have access to thousands of books on MyON too! There are plenty linked to the polar regions and their wildlife, the Titanic and Shackleton.

Optional home learning challenges

If after completing their reading, spelling practice, arithmetic and TT Rock Stars games, your child would like to complete additional home learning challenges, here are some ideas of projects they could attempt and bring in to share with their class teacher for *bonus merits*.

- Imagine that Earth has entered another Ice Age. Write a diary-style piece describing the changes and how the human race has adapted to cope.
- Find out what natural resources and raw materials are reaped from the Arctic. What impact does this have on the environment?
- Create your own Arctic and Antarctic word search puzzles using all the new words you have learned during the project. Challenge a grown-up to solve it!
- Create a poster or brochure for a new travel company which arranges visits to the Arctic or Antarctic. Use powerful images and text to tempt customers who want an extra-special trip!
- Design a pair of snow boots for an Arctic explorer. What materials would you use? What features could they have? Let your imagination run wild!
- Imagine a common domestic animal became an inhabitant of the Arctic or Antarctic. How would it have to adapt to survive there? Longer, thicker hair? What else? Rename your common animal with a more exciting 'polar' name!

Useful websites

- National Geographic for Kids: Polar regions - <https://kids.nationalgeographic.com/explore/nature/habitats/polar/>
- National Geographic: Polar regions - <https://www.nationalgeographic.co.uk/polar-regions>
- National Geographic for Kids: Titanic - <https://www.natgeokids.com/uk/discover/history/general-history/would-you-have-survived-the-titanic/>
- Kiddle: Titanic - <https://kids.kiddle.co/Titanic>
- National Geographic for Kids: Climate change - <https://www.natgeokids.com/uk/discover/geography/general-geography/what-is-climate-change/>

Useful information

- To keep hydrated, pupils require a water bottle in school each day please. They will be reminded to take it home each afternoon for a wash.
- Please remind your child to bring their PE kit to school every Monday; we will return it home on Fridays for a wash.
- Y6s last swimming sessions is on Thursday 13th January.