

Science

Can you explore the basic needs for survival?

SWAF, shelter, water, air, food. Identify, investigate and compare the properties of materials to construct eg a waterproof den, a shelter shaped to tolerate strong polar winds, a windbreak to shield a fire/cooking pot, a stretcher to transport an injured crew member.

Can you work as a team and chose the 5 most important items to take on your expedition out of a selection of things? Give reasons for your choices and rank in order of importance.

Can you plan a balanced menu for an overnight expedition and cook on a camp fire? Can you melt water to drink?

Explore ICE; Can you collect ice from frozen puddles and containers and build an ice sculpture or mini den/igloo for a polar creature? Can you add colour using food or plant/soil-based dyes to your sculpture/mini den? Can you create icy windows or mobiles that capture a 'snapshot piece' of the immediate world around you? Collect items from the area eg berries, skeleton leaves, cones, lichens, dead minibeasts, shells, seaweeds, pebbles and add to eg a shallow container of water, a balloon, a rubber glove, a waterproof bag and fill with water. Add a string hanger; freeze naturally or in the freezer. Remove from container/balloon etc, hang up and enjoy your icy snapshot and how it changes over the day, (consider weather).

Can you go on an Icy Scavenger Hunt? Use a magnifying glass and look closely at the Icy crystals covering the plants and trees. What happens if you touch them and why?

Can you name some creatures that live in polar regions and find out how they are adapted to the area?



Mathematics

Can you use mathematical operations to calculate the quantities of food required for your expedition? Eg. 4 explorers need 1 pint of milk per day = 8 pints for 2 days…

Can you use online sources to gather prices and find a total cost for your Polar Expedition menu?

Can you use simple co-ordinates on a map to locate landmarks, food parcels…?

Can you investigate 2d and 3d shapes in relation to their strength to create strong and stable structures? Shelters, wind breaks, stretchers, lifting devices…

Can you measure distances in cm and m’s using homemade rulers/metre sticks? (knife skills to whittle measuring sticks)

Can you follow a route on a map and find items? Eg sycamore leaf = 5pts, conker = 10 pts…. Which Explorer Team will collect the most points?

Can you use a timer to time different events? In seconds, minutes….?

English

Can you write a shopping list for your Expedition menu?

Can you write a simple recipe for cooking on the fire? Can you write safety instructions for fire-building / cooking on an open fire?

Can you create a Polar creature mobile? On wooden discs, draw a Polar creature on one side and on reverse write 2 /3 facts about it. Assemble as a mobile.

Can you use drama to role-play Shakleton’s Endurance expedition?

Can you paint story stones and use to retell Polar adventures?

Can you write a letter / postcard/ diary entry about your adventures?

Can you write weather descriptions / poems, outside, amongst the elements, therefore drawing on real experience?

Can you create conservation posters for Polar creatures?

Can you use drama to prepare and present a television weather report?

Can you write an advert for a holiday brochure, advertising trips to the Poles?

Research and debate, on an outside stage, the effects of Global Warming on the Polar regions.

History

Can you construct a series of nature pictures to retell the story of the expeditions of some of the early Polar explorers? Robert Peary – claimed to be the first man to North Pole 1908, Roald Amandsen – first man to South Pole 1911, and Ernest Shakleton, a principal figure of the "Heroic Age of Antarctic Exploration", who led the famous Endurance Trans Antarctic Expedition 1914-1917.

Can you use tools and knots to make a stick timeline or mobile, noting the key events in Shakleton’s Endurance challenge?

Geography

Can you use ropes/chalks and labels to make a large ‘world’ outdoors and mark/label the 7 continents, seas and oceans?

Can you use willow to create a sphere ‘globe’ and mark the polar regions?

Can you use rocks, stones, soil… to make a relief map of a polar region? (cover with flour to imitate snow and use it for small world play.)

Can you make a windsock, anemometer or a rain gauge to study the local weather for a week? Compare your findings to the Poles. Can you use directional language (N,S,E,W), forward, backwards, turns… to follow a trail?

Can you design a Polar treasure hunt, mapping key features and a route on a school plan with directions and treasures to collect or polar riddles to solve on route? Can others follow your plan?

Music, Art, DT

Can you make a grass whistle with a blade of grass? (Or an Elder whistle – year 2 only!) to call for help if you lose your crew in a Polar snowstorm?

Can you use natural materials to make drums and rain sticks, decorate them by whittling and use them, along with your voice to compose music?

Listen to and talk about eg. Symphony Antarctica by Vaughan Williams or Winter by Vivaldi, Aquarium by Saint Saens.

Can you learn and perform the Penguin Song?

Can you learn to saw wood (from your wrecked ship, Endurance) and use a knife to make a feather stick for fire building and lighting?

Can you use willow to make a fish or weave a willow boat shaped structure? (basket making technique)

Can you use hollowed out Elder to make a little pot to keep eg. A photo of your loved one on your expedition, leave a message in case you do not make it home, to keep ‘matches’ dry on your journey?

Can you use clay to create Polar creatures, boats or landscapes?

Can you make and use paints from earthy pigments, berries, soil, chalk, grass and leaves? Cave paintings, seascapes…

**KS1**

**Wild Tribe**

**Poles Apart**

**poles**

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