

The Polar Express

KS2: Years 5 and 6

Science

What should I already know about?		
<p>In Year 1 and 2, you explored different materials and in Year 3 and 4, you experimented with electrical insulators and conductors.</p> <p>You already know about the water cycle.</p> <p>You have already considered different habitats in Year 3 and 4.</p>	Adaptation	The process of change that allows an animal to become better suited to its environment
	Classification	The way in which a group of things can be put into groups or categories
	Diet	The food that an animal or living thing eats to survive
	Habitat	The environment in which an animal or living thing can survive
	Life cycle	The series of changes in the life of a type of living thing, from birth to death
Texts: assorted non-fiction texts about the Arctic as a habitat	Mammal	A group of animals who give birth to live young and feed their young with their own milk
<p>We will read a range of extracts from texts about animals, selecting information and noting technical detail in descriptions and comparisons. We will learn about the structure and features of a non-fiction text and learn about the presentation devices to guide the reader through a fact file.</p>	Thermal	Relating to heat or temperature
	Thermal Conductivity	The degree to which a material allows heat to pass through it
	Thermal Conductor	A material which allows a large amount of heat to pass through it
	Thermal Insulator	A material which only allows a very small amount of heat to pass through it
	Tundra	Large, barren region with no trees, found in cold regions.
The Arctic		

- The Arctic is the area around the North Pole.
- Its habitat is tundra.
- It is a type of desert.
- In the summer there are nights when the sun never sets and it has 24-hour days.
- The word “Arctic” comes from an ancient Greek word meaning “bear.”
- Penguins do not live in the Arctic, but polar bears do.
- The Arctic and all its ice caps, sheets and glaciers are home to 10 % of the world’s fresh water supply.
- The North Pole itself is not land but is an area of ice-covered water.

