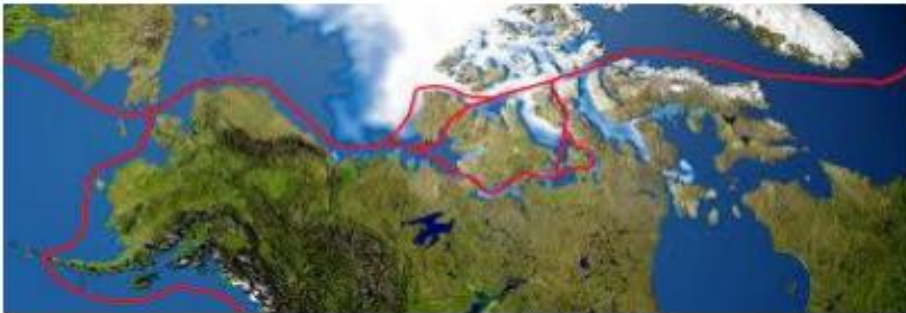


Year 4 - Climate change and survival.

VOCABULARY DOZEN	
Adaptation	A feature of an animal or plant that changes over many generations. These features will help a species survive and multiply. For example, camels' humps store fat.
Biome	A community of plants and animals. For example, the ocean is a biome.
Celsius	A temperature scale – water freezes at 0C and boils at 100C.
Climate	Weather conditions over a long period of time.
Desert	Land which has very little precipitation.
Equator	Line on a map that circles the Earth; it's half way between the North and South Poles.
Habitat	The natural home of an animal.
Insulate	To protect by keeping something (or someone) at the same temperature.
Polar	To do with the North or South Pole.
Precipitation	Rain or snow
Species	A group of living creatures that are similar and can breed.
Weather	Sunshine, rain, wind – whatever is experienced at that time.



Northwest Passage Conquered

Roald Amundsen was the first explorer to sail from the Arctic Ocean to the Pacific Ocean. It took three years (1903 – 1906).

Frozen First

Roald Amundsen also led the expedition that was the first to reach the South Pole.



A compass will not point to the North Pole

True North

A compass will point to magnetic north. Currently, this is moving 55km a year away from Canada towards Siberia.



Marianas Trench

Only 3 expeditions have travelled to the bottom of the Marianas Trench (which is 11 km deep).

Animals are Desert Survival Experts

Many different species of animals have become experts at surviving in extreme conditions.



Scorpion (Sahara Desert)



Princess Parrot
(Australian Outback)



Bactrian Camel
(Gobi Desert)



Super Dad

Standing up to 1 m and 22 cm tall, male Emperor penguins eat nothing for two months in winter! Instead, their job is to keep their egg warm by balancing it on their feet (and off the icy snow).



Three Threes

Humans can live for about 3 minutes without oxygen, 3 days without water and 3 weeks without food.



Polar Explorers

Roald Amundsen	On December 14th 1911, Roald Amundsen was the first person to reach the South Pole. Roald Dahl was named after him.
Edmund Hillary & Tenzing Norgay	On the 29th May, 1953, Hillary and Tenzing were the first people to climb to the top of Mount Everest.
Umberto Nobile	Umberto Nobile and Roald Amundsen are seen as being the first people to reach the North Pole (1926).
Robert Peary	American explorer, Robert Peary, claimed to have reached the North Pole on 6th April 1906 but he had no proof.
Captain Robert Scott	Scottish explorer who tried to be the first person to reach the South Pole. He was beaten by his Norwegian rival, Amundsen by 35 days.

Earth's Extremes

Dramatic temperature differences are found on Earth.

Lut Desert, Libya
– 70.7C (2005)



Antarctica –
–89.2C (1982)

