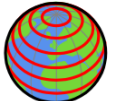




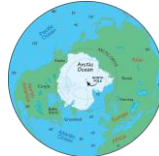






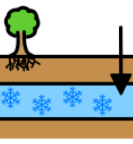



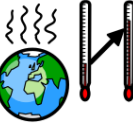

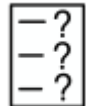



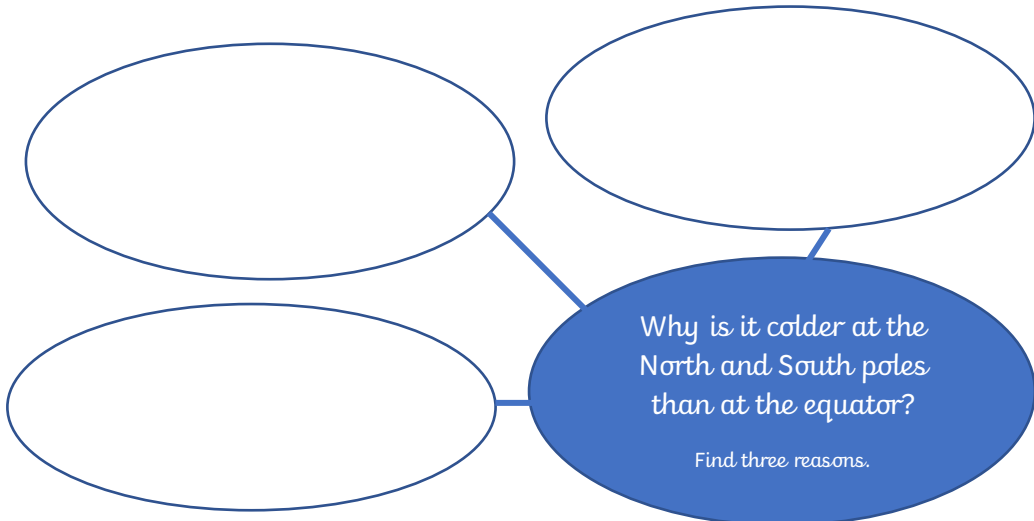


Year 6. Spring 1. **Geography. The North and South Poles.**

Vocabulary			Knowledge	
latitude	The angular distance of a place north or south of the earth's equator.			Antarctica is a continent because there is a landmass under the ice. However, the Arctic is not a continent as there is no land beneath the ice.
longitude	The angular distance of a place east or west of the prime meridian.			The North Pole and the South Pole both contain polar deserts as there is limited rainfall due to the low temperatures.
prime meridian	The prime meridian is a line of longitude at 0 degrees that divides the Earth into the Eastern and Western Hemispheres.			Norway, Sweden, Finland, Russia, Alaska, Canada and Denmark and Greenland are all countries that have part of their land in the Arctic Circle.
Arctic Circle	An area at 66.6° N, which includes the countries Norway, Sweden, Finland, Russia, Alaska, Canada, Greenland and Denmark.			There are deserts at the North Pole and South Pole called the Arctic Desert and Antarctic Desert. This is because rainfall is exceedingly low in both of these places. The Antarctic Desert is the largest desert on Earth.
Antarctic circle	The Antarctic regions extend from 66.5°S latitude to the South Pole (90°S latitude).			The polar regions are dominated by icesheets and tundra regions. The tundra is characterized by permafrost, a layer of soil that is frozen all year round.
topography	The physical features of an area that shows height and depth of the land.			The animals at the Arctic include Arctic foxes and polar bears.
permafrost	A layer of soil which is frozen all year.			Animals at the Antarctic include emperor penguins and Weddell seals. All of these animals have adapted to their environment.
tundra	A vast, flat, treeless region in which the soil is permanently frozen called permafrost.			The sea ice in the Arctic Ocean is melting as an effect of climate change.
climate change	A long-term shift in the Earth's temperature and weather patterns, largely caused by human activities like burning fossil fuels.			If the ice keeps melting effects will be (i) animals such as the walrus lose their habitats and die (ii) an increase of typhoons and storms causing flooding (iii) an increase of coastal erosion causing damage to land, property etc. (iv) more areas near rivers and the sea being under floodwaters causing loss of life and destruction to habitats and homes.

Quizzing		Quiz at home	
Ask your partner the questions below. Can they find the correct answer on the right-hand side?		Ask your adult to look at the KO.	
What is the name for the lines on a globe that are parallel to the equator?	South Pole	<div>Quiz them using the vocabulary and knowledge section or the quiz questions.</div> <div>• Can they beat your score?</div> <div>• Can they score more than 5? 10?</div> <div>• Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.</div> <div></div>	
What is the name for the lines on a globe that go from north to south?	Polar deserts.		
What is another name for the prime meridian?	latitude		
Which animal lives in the Antarctic?	The Greenwich Meridian.		
Which animal lives in the Arctic?	Penguins.		
Which Pole has the coldest temperatures?	North Pole		
Which Pole is in the Arctic?	Rising temperatures.		
What is the name for where there is very little rainfall and very low temperatures?	Polar bears.		
Why is climate change effecting the ice caps?	longitude		
BIG Questions		Beat the adult	
<div>1. Describe the life that inhabits the Arctic biome?</div> <div>2. Which countries are within the Arctic circle?</div> <div>3. Geographically, how is the Arctic different from the Antarctic?</div> <div>4. What is the difference between longitude and latitude? How is this used to describe a location?</div> <div>5. How is climate change altering the Arctic and Antarctic biomes?</div>		<div>Your teacher can give 10 facts in 1 minute about this topic.</div> <div>How many can you give to your partner?</div> <div></div>	
Word scramble		Creative Tasks	
Unscramble the key vocabulary from this topic below. You can create your own at the bottom.		<div>1. Use a blank copy of the KO to fill in the missing information.</div> <div>2. Using fabric or an old sock make an Arctic or Antarctic creature, for example a narwal or Weddle seal.</div> <div></div> <div>3. Create a 3D model of either the Arctic or Antarctic environment.</div>	
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Enquiry

Animals in polar habitats



Why don't giraffes live in the Arctic?
Investigate this question.

Cross out these key words as you use them:

topography tundra location temperature climate
ocean desert trees

Finish these sentences so that they make sense.

1. Gorillas and snakes don't live in the Arctic because of the climate. The _____. are too _____.
2. There are different habitats within the Arctic. One of them is _____. Here it is _____.
3. The Arctic has vast ice-sheets with permafrost with mountains and coastal plains describes the _____.

If you were going to explore the Antarctic, which route would you take from Luton? Why?

Here are some maps that may help you.



Here is some guidance to support your journey.

- i. You are heading to Union Glacier Camp that has a 'blue' airstrip (red arrow).
- ii. Aeroplanes fly from Punta Arenas (Where is this?) to Union Glacier Camp.
- iii. Luton airport doesn't fly directly to Punta Arenas.
- iv. However, you may choose to travel by boat or trains.