

NGSS 2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats. **LS4.D: Biodiversity and Humans** There are many different kinds of living things in any area, and they exist in different places on land and in water.

Phenomena: Polar Habitats Arctic and Antarctic



What do you notice about the `āina ~ land? How is it different from Pāhala?

What do you notice about the animals?



I see ~ Maka nānā 👁️👁️ I notice. I observe.

1) _____

2) _____

3) _____

4) _____

I think ~ Mana`o I think polar _____

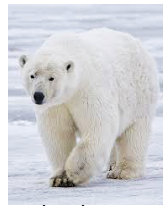
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Gathering Information About The Phenomena: Polar Habitats

There are 2 polar habitats on Earth. One is in the north, at the top of the Earth and the other is at the south pole.



North Arctic Animals Here are a few...



polar bear



reindeer



arctic fox



narwhal whale



walrus



snowy owl



puffin



harp seal

Polar Habitats Fun Facts

Penguins live in the south pole, not in the north.

The south pole is colder than the north pole.

No trees grow in the north and south poles. The ground is frozen so roots can't grow.

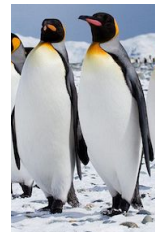
In the summer it is still very cold, but grass, moss, and mushrooms can grow.

Most animals are carnivores, meat eaters, catching smaller animals for food.

Animals that live in these coldest habitats have thick fur or thick feathers to keep warm and colors that camouflage (blend in) in with the white snow.

During winter, some of the animals hibernate, a kind of sleep, under the snow, underground, or in caves. Some animals move to warmer places for the winter.

South Antarctic Animals Here are a few...



king



emperor



adelle



gentoo

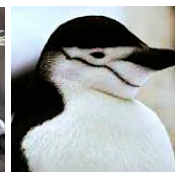
7 kinds of penguins live in Antarctica



macaroni



rock hopper



chin strap



orca killer whale
Orca also live in the arctic north.



leopard seal.



blue whale

I learned arctic

Gr 2 Science Interdependent Relationships in Ecosystems

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Phenomena: Arctic Habitats (North Pole) Narwhal Whale



I see ~ Maka nānā 👁️👁️ I notice. I observe.

1) _____

2) _____

3) _____

4) _____

I think ~ Mana`o I think narwhals _____

Next, read this page.

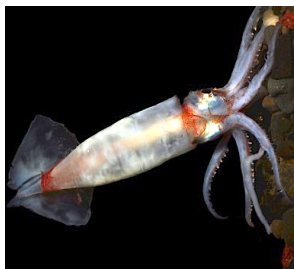
Gathering Information About The Phenomenon: Narwhal Whale



Narwhals live close to the top of the Earth in the north pole. They live under the frozen **pack-ice** that covers arctic waters.



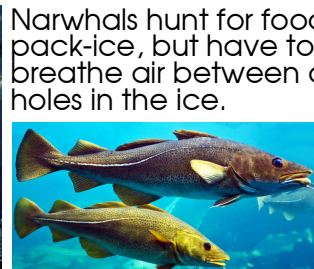
They eat halibut (flatfish),



squids,



shrimps,

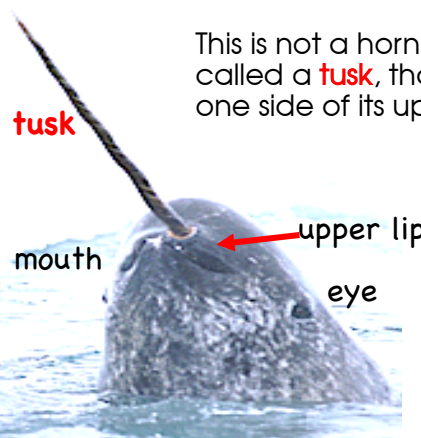


and cod fish.

Narwhals hunt for food under the pack-ice, but have to come up to breathe air between cracks and holes in the ice.



Narwhals live together in groups, called, **pods**.



This is not a horn. It is a long tooth, called a **tusk**, that sticks out of on one side of its upper lip.



Male or boy narwhals grow **tusks**. The tusk is soft on the outside and hard on the inside. The soft outside of is full of sensors that can tell how salty the water is or the water temperature which may help them find food.



Sometimes they cross tusks but **not** to fight.



A few will grow 2 tusks, but not often.

I learned narwhals