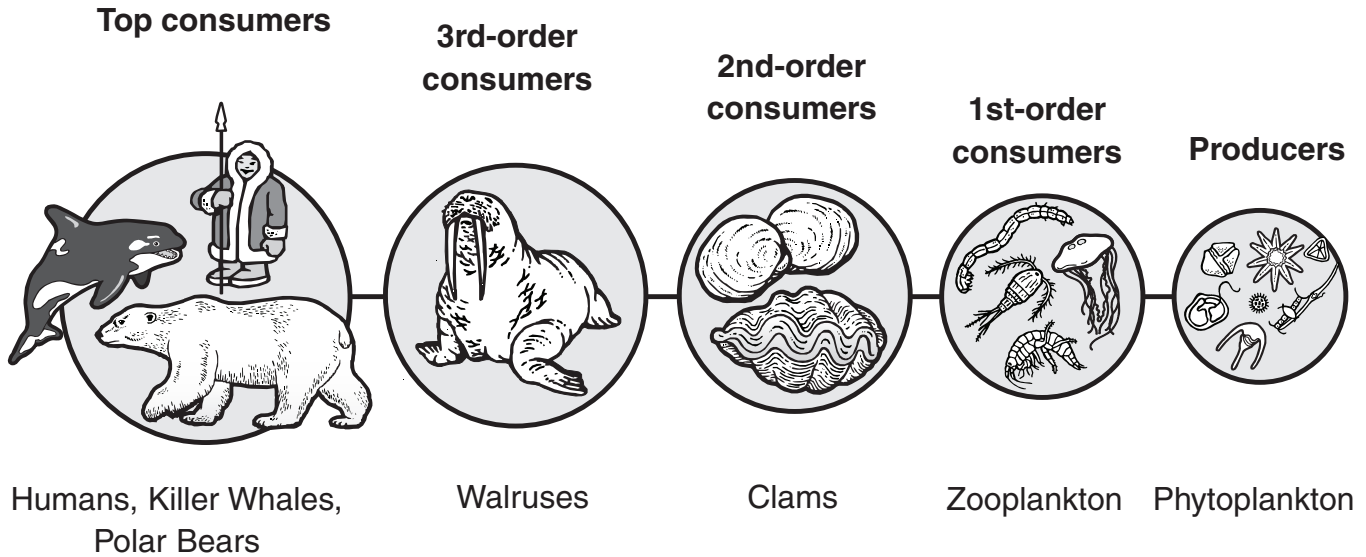


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# Pinniped Food Chain

Study the food chain illustrated below. Then answer the questions that follow. Use pages 19–23 to help you.



## Thinking About Food Chains

1. What will happen to the killer whale and polar bear populations if humans can hunt walruses for tusks and fur without any limit?

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2. What will happen to walruses if humans remove all the clams they want from an ocean bed?

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3. What will happen to the clams that live on phytoplankton and tiny bits of dead sea creatures if the water is polluted and plankton are killed?

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## Another Consideration

Some native Eskimos rely on the walrus as other Native Americans relied on the bison in the past. They eat its flesh, use its bones for tools, and make oil from the blubber. The skins are used for boat covers and every other part of the walrus is used, even the tusks and whiskers. Should Eskimos be legally permitted to hunt walruses? Explain your reasons on the back.

# Jet-Propelled Swimmers

Octopods are able to escape from danger very quickly by shooting a jet of water through a siphon. This propels them backwards. These activities use the same force.

## Materials

balloons

eyedroppers

bussing tray, dish pan, or toddler wading pool

rubber bands

water bottle squirt cap

## Directions

1. Fill a small balloon with water.
2. Pinch the balloon closed near the mouth.
3. Place a water bottle squirt cap in the mouth of the balloon. Leave the squirt cap closed for the moment.
4. Wrap a rubber band firmly around the mouth of the balloon and the cap to make the seal tight.
5. Fill a bussing tray, dishpan, or toddler's wading pool with water.
6. Place the balloon in the pan or pool and quickly unscrew the squirt cap.



## What Happened?

Describe the results of the experiment.

How could you make it work better?

## Try Again

Do the experiment again, but substitute one of the following steps:

- Open the squirt cap halfway.
- Use a smaller balloon.
- Try a larger or longer balloon.
- Use a different nozzle. Instead of the bottle cap, try an eyedropper, a different bottle cap, or no cap at all.
- Try a mixture of air and water in the balloon.

## Results

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