

Released Items

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NCEXTEND1 Grade 8 Science



Public Schools of North Carolina

Department of Public Instruction | State Board of Education

Division of Accountability Services/North Carolina Testing Program

The list below describes observations about a glass of water.

- The water looks clear.
- The water has no odor.
- The water has fish in it.

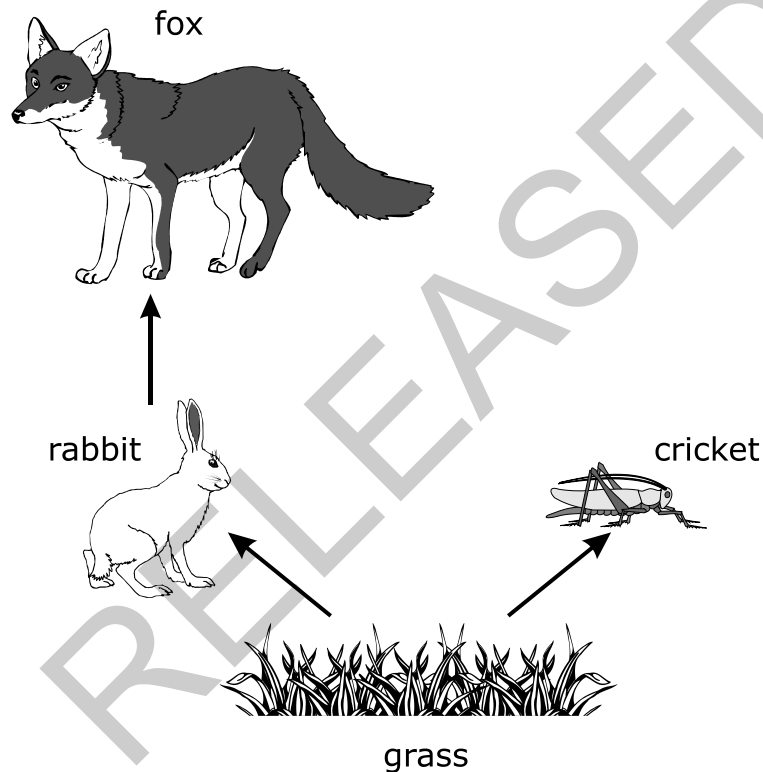
Why is this water unsafe to drink?

because there are fish in it

because it has no odor

because it looks clear

The picture below shows a food web.



How does the fox get energy?

by eating a rabbit

by eating a cricket

by eating grass

What is a substance that is made of two or more different types of atoms that share a chemical bond?

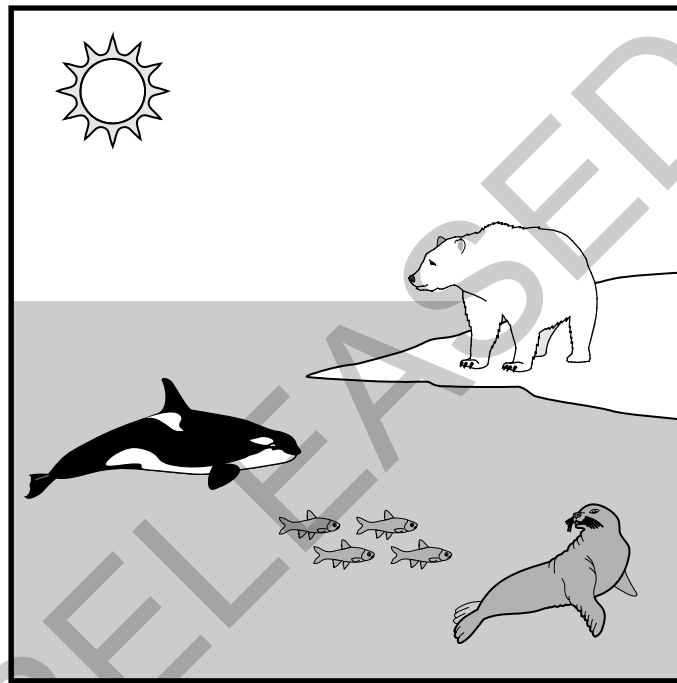
an element

a compound

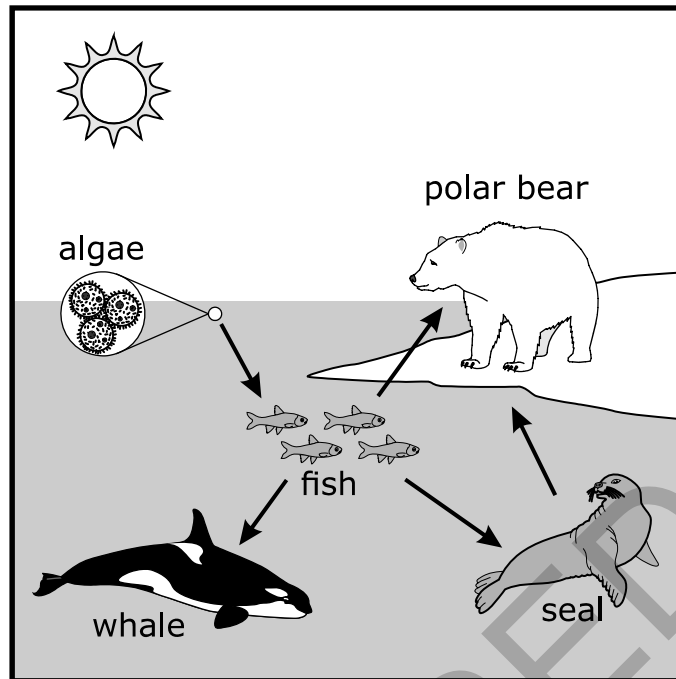
a mixture

**Questions 4–5 are part of an item set.
Use the following information to answer
the questions.**

An Arctic Food Web



The Arctic is a cold, icy place. Snow and ice cover much of the land and sea in the Arctic. Life might seem hard in the Arctic. But the plants and animals that live there thrive in the cold temperatures.



Water temperatures in the Arctic are rising. This affects the Arctic food web. Algae, which are tiny plants that grow in water, grow in number. The fish that eat the algae also grow in number. Seals then eat the fish. Whales also eat the fish and have more food.

The warmer ocean water harms polar bears. They hunt seals on the ice, but the ice is melting. With less ice, polar bears cannot hunt as well and may not have enough food.

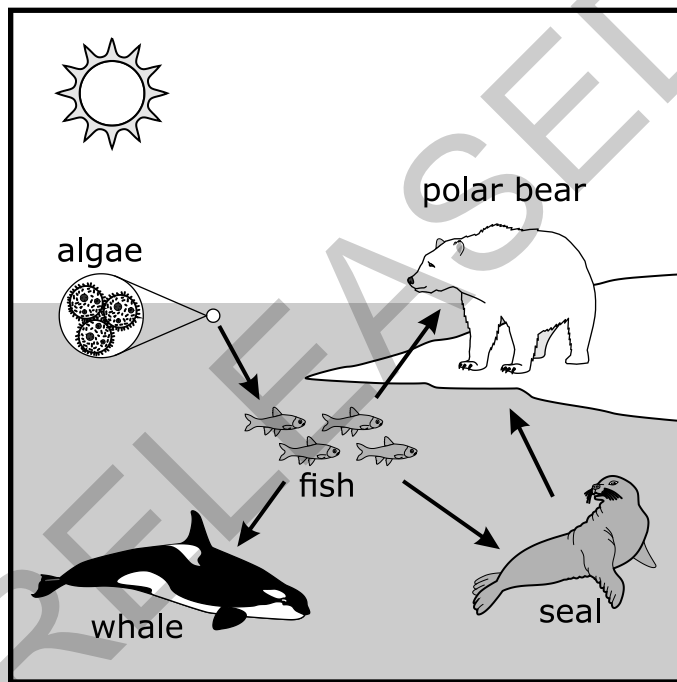
What change has made living in the Arctic difficult for polar bears?

an increase in the amount of ice

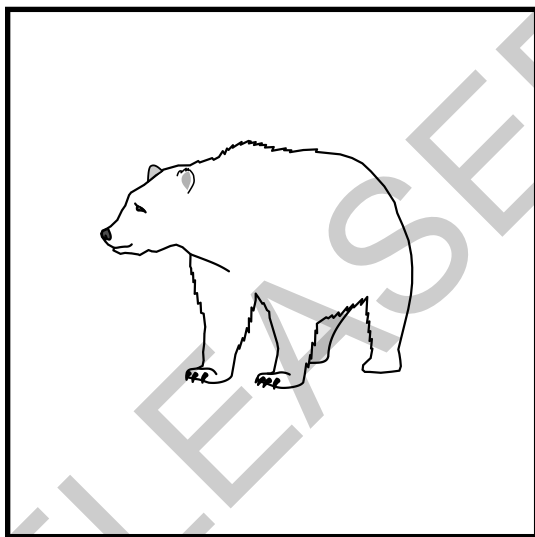
an increase in the number of fish

an increase in water temperature

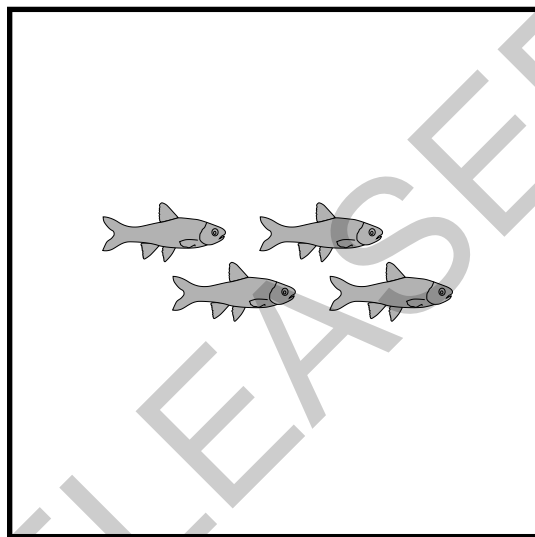
The food web below is from the selection.



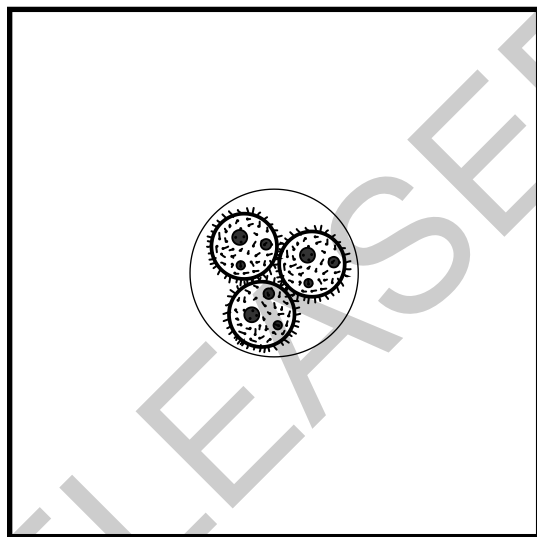
What is the producer in the food web?



polar bear



fish



algae

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Answer Key

Question Number	Key	Standard
1	A	ESS.8.3.1
2	A	LS.8.2.4
3	B	PS.8.1.1
4	C	LS.8.2.1
5	C	LS.8.2.2