

Activity B

Arctic food web



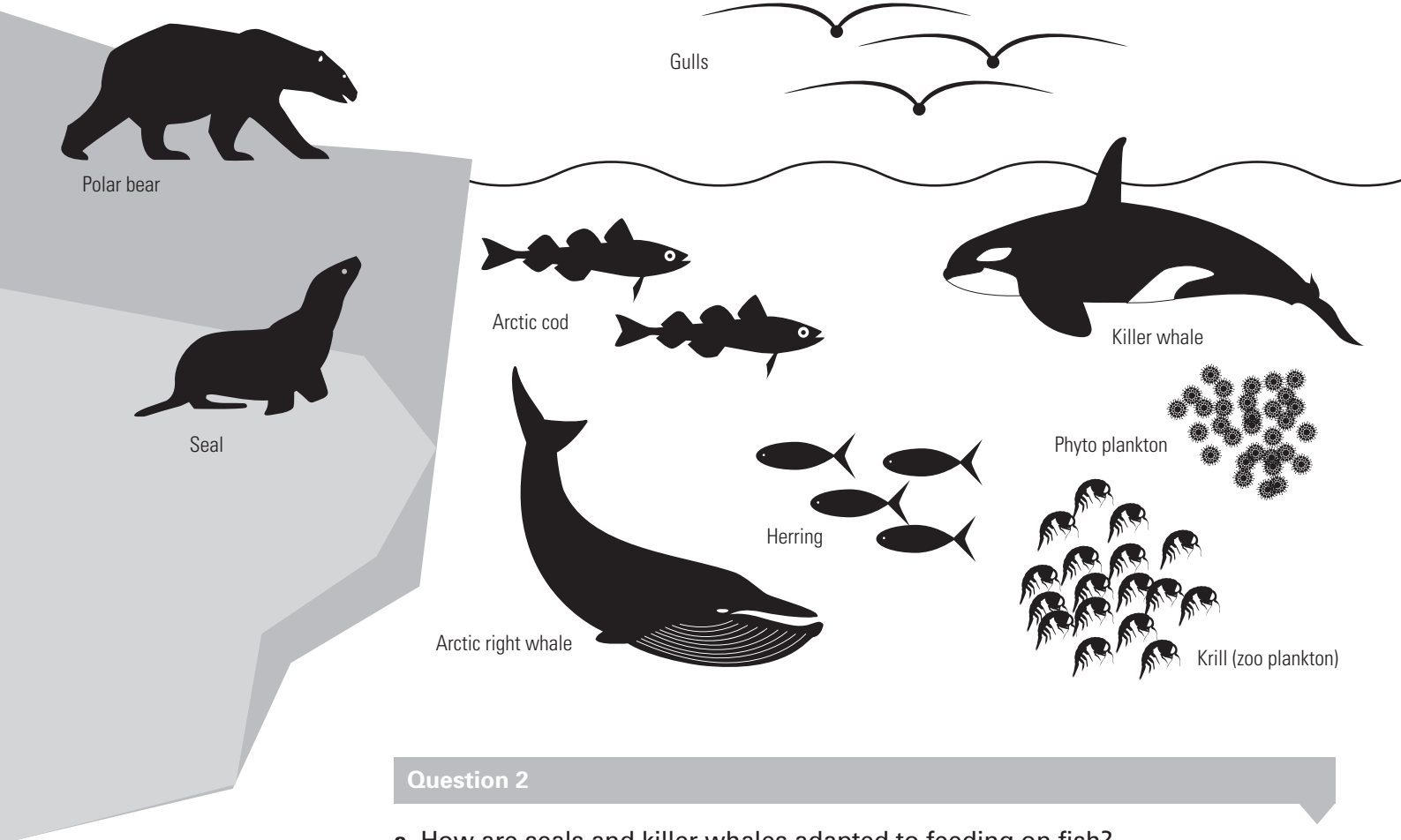
Refer to Activity A to see two simple Arctic food chains. There are many other animals that live and feed in the Arctic waters. For example, seals feed on big fish like cod and small fish like herrings. They fall prey to killer whales which also eat the cod.

You can show the feeding relationships using a food web.

Question 1

Put arrows on the diagram to show the feeding relationships.

Illustrations not to scale



Question 2

- How are seals and killer whales adapted to feeding on fish?
- Arctic Right whales graze on plankton. Give two ways in which Arctic Right whales are different from killer whales?

Question 3

- What are the two top predators in this food web?
- What would happen to their numbers if the amount of phytoplankton increased?
- Discuss other factors that might affect your answer to part **b**.

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Question 4

Look at the table below. Put each of the organisms from the foodweb into one row in the table. The producers go on the bottom row, the primary consumers on the next row and so on.

Then join them up with arrows.

You may find that some animals can go on more than one row.
Discuss this with a partner or your teacher.

top predators	
tertiary consumers	
secondary consumers	
primary consumers	
producers	