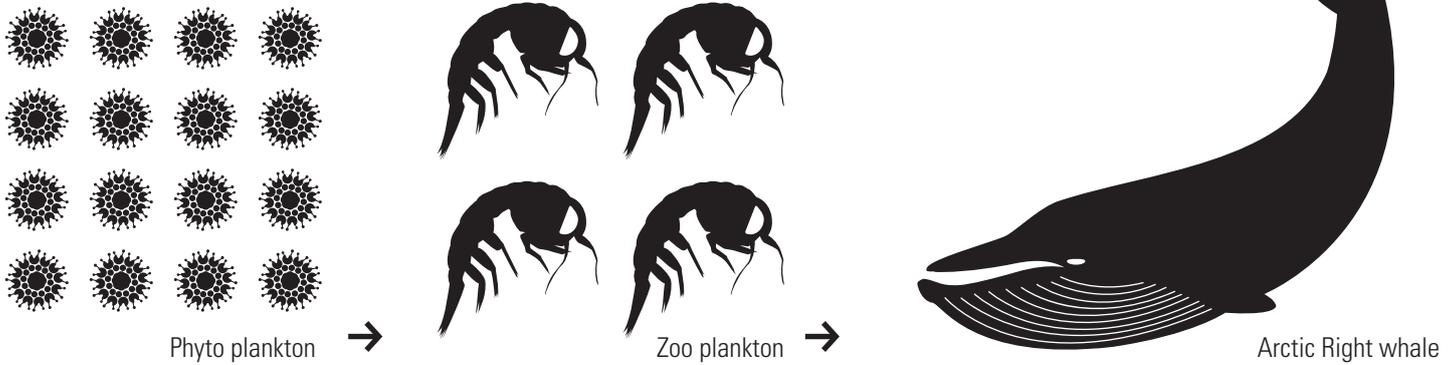


# Activity A

## Arctic food chains



### Simple arctic food chain



#### Question 1

In this food chain, which organism is a

- a producer?
- b primary consumer?
- c secondary consumer?

#### Question 2

How is an Arctic Right whale adapted to feeding on zooplankton?

#### Question 3

Draw a pyramid of biomass for this food chain.

The table shows data for 200 km<sup>3</sup> of ocean around Svalbard.

organism	number in food chain	biomass in food chain
phytoplankton	750,000,000,000	750 tonnes
zooplankton	600,000,000	200 tonnes
arctic right whale	1	75 tonnes

#### Question 4

Why is a pyramid of biomass more useful than a pyramid of numbers?

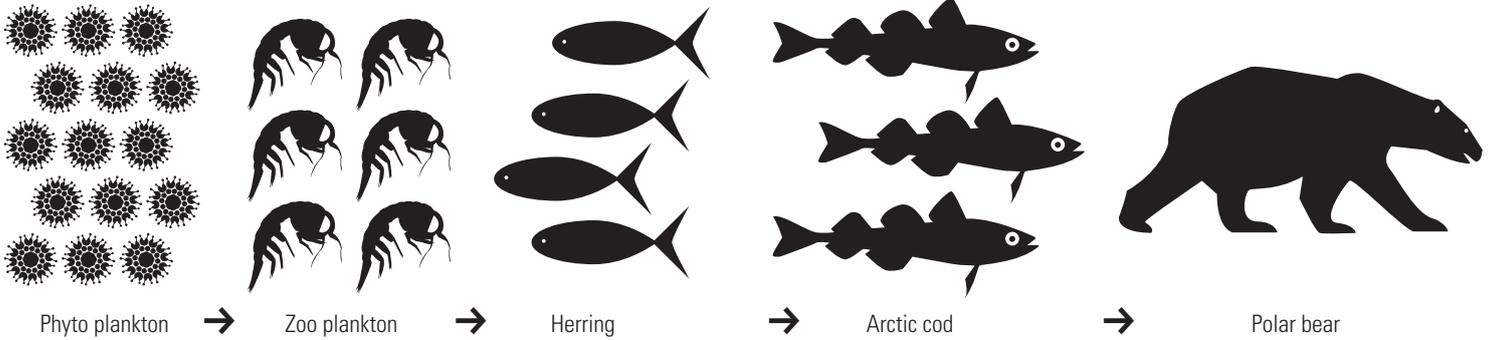
# Activity A

## Arctic food chains



Another arctic food chain

Illustrations not to scale



### Question 5

Which of these are  
**a** herbivores  
**b** carnivores  
**c** omnivores?

### Question 6

Which of these are  
**a** predators?  
**b** prey?  
**c** the top predator?

### Question 7

Use the ideas of food chains and biomass to explain why:  
**a** food chains are usually quite short.  
**b** polar bears are quite rare.  
**c** polar bears have large territories.