

Prior Knowledge Review

Answer these questions using the food chain:

1. State the producer in this food chain.

Grass

2. State which species is the secondary consumer.

Fox

3. State which species is a predator and which is prey.

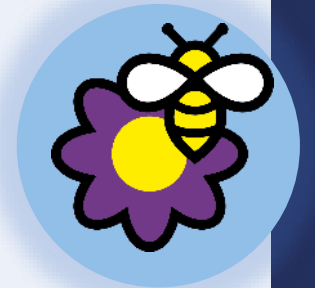
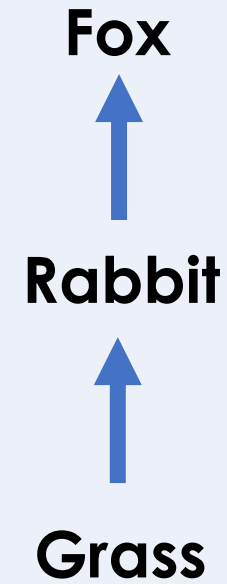
The fox is a predator and the rabbit is prey.

4. State the process by which producers make their own food.

Photosynthesis

5. How are herbivores and carnivores different?

Herbivores only eat plants whereas carnivores only eat meat/other animals



Prior Knowledge Review

B3.2.1

Science
Mastery



➤ B3.2.1 Prior Knowledge Review

B3.2.2 Biodiversity

B3.2.3 How Humans Affect Biodiversity

B3.2.4 How Humans can Preserve Biodiversity

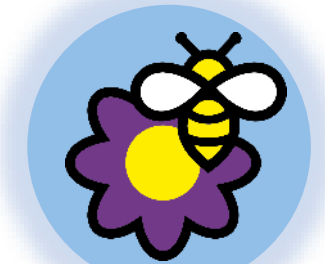
B3.2.5 The Effect of Pollution on Biodiversity

B3.2.6 Global Warming

B3.2.7 Taking It Further: Pyramids of Biomass

B3.2.8 Taking It Further: Farming and Biotechnology

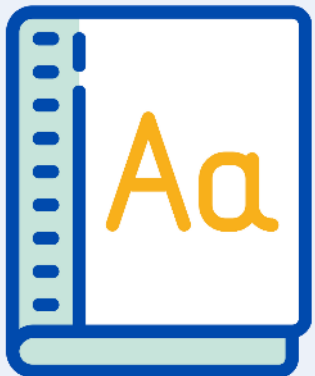
B3.2.9 Taking It Further: Food Security



Following this lesson, students will be able to:

- State the definitions of producer, consumer, predator and prey
- Describe the transfer of energy through a food chain
- Explain the importance of plants in food chains

Key Words:



producer

consumer

species

ecosystem

habitat

photosynthesis

This is the fix-it portion of the lesson

The **fix-it** is an opportunity to respond to gaps in knowledge, especially those identified by the previous lesson's exit ticket.

- The teacher should customise this slide as needed, to facilitate
 - **reteach, explanation, demonstration** or **modelling** of ideas and concepts that students have not yet grasped or have misunderstood.
 - **practice** answering specific questions or of key skills.
 - **redrafting** or **improving** previous work.

Interdependence

Organisms are **interdependent**

Feeding relationships can be shown using food chains or food webs

A **population** is a group of organisms of the same species

A **community** is two or more populations of organisms (different species)

A **habitat** is the place where an organism lives

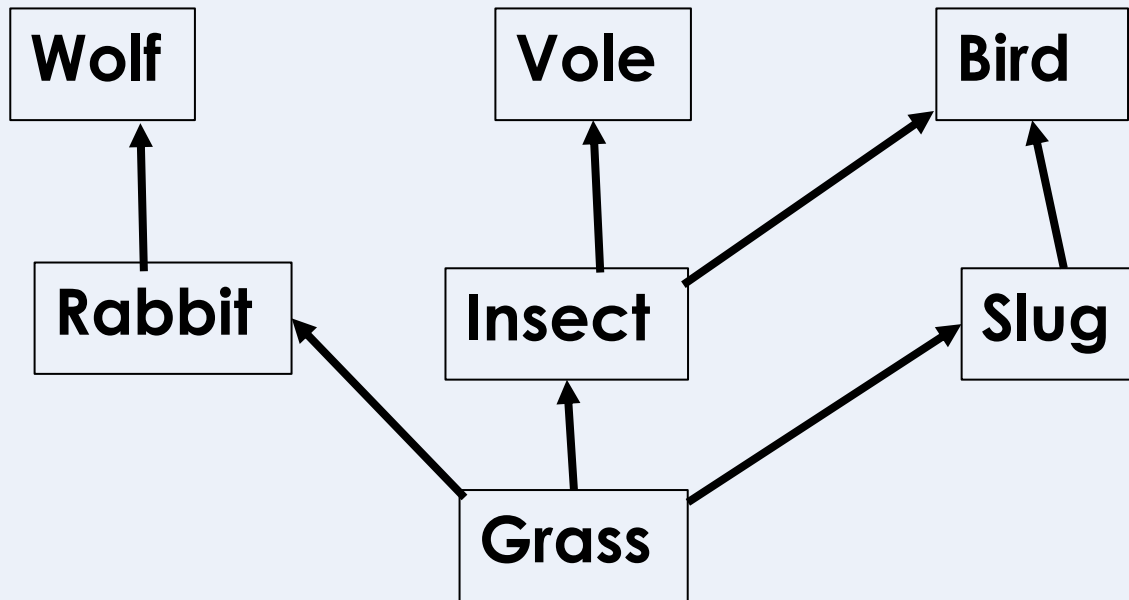
An **ecosystem** is the interaction between the community and the non-living parts of their environment (their habitat)



Food chains and food webs

Many food chains together within one community is called a food web

Arrows show the direction of energy transfer



Grass → rabbit → wolf

Grass → insect → vole

Grass → insect → bird

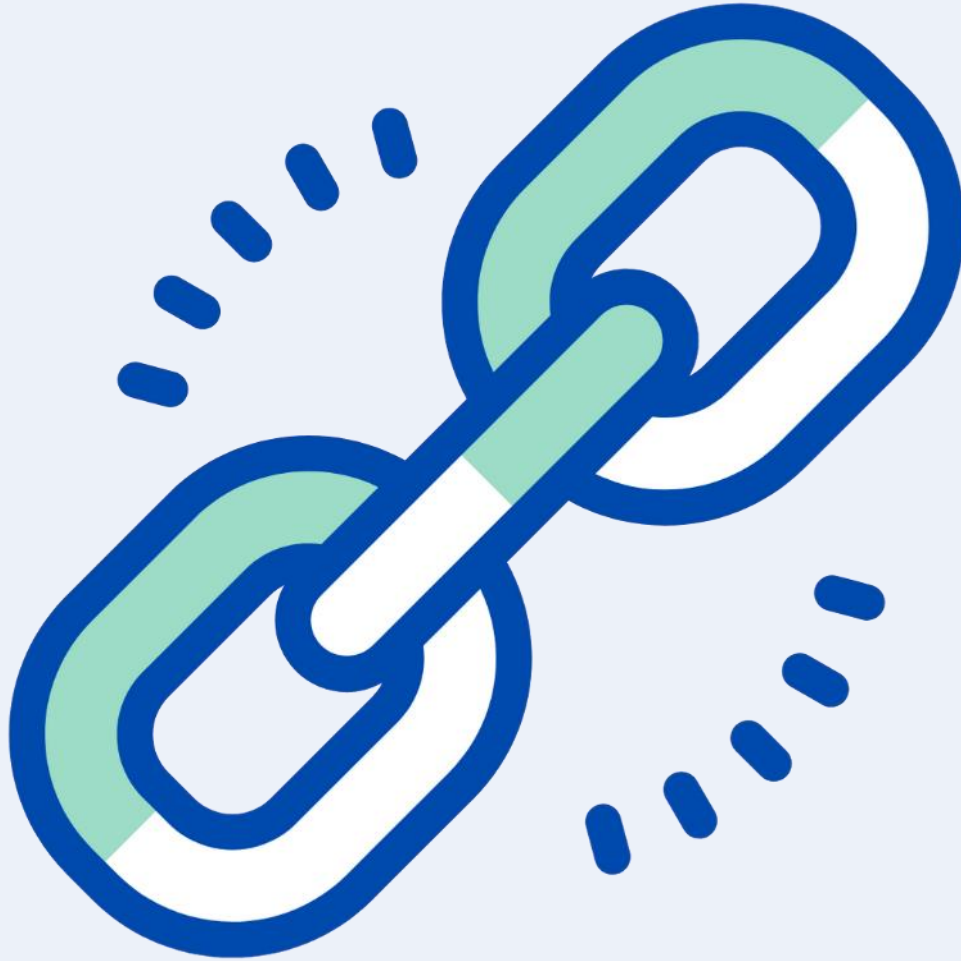
Grass → slug → bird

Quick Quiz

State the correct word for each definition:

- a. A consumer that only eats plants and algae **Herbivore**
- b. The place where an organism lives **Habitat**
- c. A carnivore with no predators (at the top of the food chain) **Apex predator**
- d. A diagram that shows multiple food chains **Food web**
- e. An organism that makes glucose through photosynthesis **Producer**
- f. An organism that eats both plants and other animals **Omnivore**

How many links can you make from previous units?



Where do animals get their energy from?

Where do plants get their energy from?

What do plants need to survive?

What do animals need to survive?

How can we represent the feeding relationships between different species?

What are producers?

What are consumers?

Are there different levels of consumer?

What do the terms 'herbivore', 'carnivore' and 'omnivore' mean?

Answer the questions below.

1. Which best explains what the arrows on a food chain or food web represent?
 - ☐ A. Which animals are being eaten
 - ☒ B. The direction of energy transfer
 - ☐ C. Producers, primary consumers and secondary consumers

2. A primary consumer is...
 - ☐ A. A carnivore that only eats plants
 - ☐ B. A herbivore that eats other animals
 - ☒ C. A herbivore that eats plants or algae

3. What is the correct definition of a habitat?
 - ☐ A. The interaction between a community and the non-living parts of their environment
 - ☒ B. The place where an organism lives
 - ☐ C. Forest, ocean or desert

Lesson B3.2.1

What was good about this lesson?

What can we do to improve this lesson?

[Send us your feedback by clicking this link. Thank you!](#)