

Exploring Food Chains with Bea the Bee

Learning objective: To identify and construct food chains, understanding the roles of producers, herbivores, and carnivores.

Read each question carefully and use your knowledge of habitats and living things to answer. Remember to use the vocabulary from the word bank to help explain your ideas.

Bea the honeybee is busy exploring the garden! Every living thing needs energy to grow, and that energy moves through a food chain. Start with the plant that makes its own food from sunlight, then follow the arrows to see who eats what.

Word bank: Producer · Consumer · Herbivore · Carnivore · Energy · Sunlight · Predator · Prey

1. Explain why a green plant is called a 'producer' in a food chain. Where does it get its energy from? (2 marks)

2. Max the monkey is looking at this chain: Grass → Rabbit → Fox. Which animal is the herbivore and which is the carnivore? (2 marks)

3. What do the arrows in a food chain represent? (e.g. Do they show who eats who, or the flow of energy?) (1 mark)

4. If all the foxes were removed from a woodland habitat, what might happen to the number of rabbits? Explain your answer. (2 marks)

5. Create your own food chain using three living things: one producer, one herbivore, and one carnivore. (2 marks)

Draw: Draw a food chain that you might find in a pond. Include at least three living things and draw arrows to show the direction of the energy flow.



Extension challenge: Nova the owl asks: What would happen to the food chain if the sun stopped shining? Write a short sentence explaining why plants are so important to all other animals.