

Investigating Food Chains with Bea the Bee

Learning objective: To construct and interpret a food chain, identifying producers, primary consumers, and predators.

Use this writing frame to describe the flow of energy through a habitat. Follow the steps below to build your scientific report, ensuring you use the correct vocabulary.

A food chain shows how energy is passed from one living thing to another within an ecosystem, starting with the sun.

Word bank: producer · primary consumer · predator · energy source · sunlight · herbivore · carnivore · therefore · consequently · subsequently · as a result

1. The Producer: Identify a plant in your chosen habitat. Start your sentence with: The food chain begins with... (2 marks)

2. The Primary Consumer: Which animal eats the producer? Start your sentence with: The primary consumer is the... (2 marks)

3. The Predator: Which animal hunts the primary consumer? Start your sentence with: The predator in this chain is... (2 marks)

4. Energy Flow: Explain how the energy travels. Start your sentence with: Energy is transferred from the plant to the animal because... (3 marks)

5. Conclusion: What might happen if one part of the chain was removed? Start your sentence with: If the producer were to disappear, then... (3 marks)

Extension challenge: Research a more complex food web involving four or more animals and explain how they might compete for the same food source.