

Nova and Bea's Food Chain Challenge

Learning objective: To identify and describe the roles of producers, predators, and prey within a food chain.

Read the questions carefully and test your knowledge of how energy moves through an ecosystem. Nova the Owl and Bea the Bee are waiting to see how you get on!

Answer Key: 1. A (Producer); 2. True; 3. Producer; 4. B (Carnivore); 5. False (They are consumers); 6. Prey; 7. C (Sun); 8. True; 9. Consumer; 10. B (Apex predator).

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

1. 1. In a food chain, what do we call a plant that makes its own food using sunlight? A) Producer*, B) Consumer, C) Predator, D) Herbivore (1 mark)

2. 2. True or False: All food chains start with energy from the Sun. (1 mark)

3. 3. What is the one-word name for an animal that only eats plants? (1 mark)

4. 4. An animal that hunts and eats other animals is a: A) Producer, B) Carnivore*, C) Herbivore, D) Plant (1 mark)

5. 5. True or False: Animals are known as producers because they make their own food. (1 mark)

6. 6. If a hawk eats a mouse, what is the mouse called in relation to the hawk? (1 mark)

7. 7. Where does the energy in a food chain originally come from? A) The soil, B) The water, C) The Sun*, D) The moon (1 mark)

8. 8. True or False: A food chain shows the direction that energy flows. (1 mark)

9. 9. An organism that eats other plants or animals is known as a _____. (1 mark)

10. 10. What do we call an animal at the very top of a food chain with no natural predators? A) Herbivore, B) Apex predator*, C) Producer, D) Prey (1 mark)

Draw: Draw a woodland food chain featuring at least four stages: a plant, an insect, a small bird, and a larger bird of prey. Use arrows to show the direction of energy flow.



Extension challenge: Research a 'food web' instead of a 'food chain'. Explain why a food web is a more accurate way to show how animals and plants live together in a real-life habitat.