

Nova's Food Chain Challenge

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

Read each question carefully. Use your scientific knowledge to identify how energy flows through an ecosystem. Good luck!

Answer Key: 1. A (Producer), 2. True, 3. Predator, 4. B (Sunlight), 5. False, 6. Prey, 7. B (Carnivore), 8. True, 9. Consumer, 10. True. Remember: A food chain always starts with a producer and shows the direction of energy transfer.

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

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

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

3. 3. An animal that hunts and eats other animals is known as a _____. (1 mark)

4. 4. Which of these is the primary source of energy for almost all food chains? A) Water, B) Sunlight*, C) Soil, D) Wind (1 mark)

5. 5. True or False: A herbivore is an animal that only eats other animals. (1 mark)

6. 6. An animal that is hunted and eaten by another animal is called _____. (1 mark)

7. 7. What is an animal that eats only meat called? A) Herbivore, B) Carnivore*, C) Producer, D) Decomposer (1 mark)

8. 8. True or False: The arrows in a food chain show the direction in which energy is transferred. (1 mark)

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

10. 10. True or False: If a population of predators disappears, the population of their prey might increase rapidly. (1 mark)

Draw: Draw a simple food chain you might find in a garden. Include a plant, a small insect, and a bird, and remember to draw arrows showing the direction of energy flow!



Extension challenge: Nova the owl wants you to think: What would happen to the food chain if a plant species died out completely? Write three sentences explaining the impact on the other animals.