Nova’s Autumnal Wonders Quiz

Learning objective: To understand the seasonal changes in plants and animals during fall, including life cycles and environmental adaptations.

Help Nova the owl prepare for the winter months by answering these questions about the science of fall. Read each question carefully and write your answers clearly.

Answer Key: 1. A (Chlorophyll), 2. True, 3. Deciduous, 4. B (Migration), 5. False, 6. Dormancy, 7. B (Energy conservation), 8. True, 9. Photosynthesis, 10. True.

Word bank: Deciduous · Hibernation · Chlorophyll · Migration · Photosynthesis · Dormancy

1. 1. What is the green pigment in leaves that breaks down during fall, revealing orange and yellow colors? A) Chlorophyll* B) Glucose C) Carbon D) Oxygen (1 mark)

2. 2. True or False: Many animals increase their food intake in fall to build up fat stores for winter. (1 mark)

3. 3. What term describes trees that lose their leaves every fall? (1 mark)

4. 4. Why do many birds fly to warmer climates in fall? A) To find new friends B) Migration* C) To collect seeds D) To find water (1 mark)

5. 5. True or False: Fall is the time when most flowers bloom in the UK. (1 mark)

6. 6. What is the state called when a plant’s growth slows down significantly to survive the winter cold? (1 mark)

7. 7. Why do some mammals go into hibernation? A) To play B) Energy conservation* C) To grow fur D) To hide from the sun (1 mark)

8. 8. True or False: The daylight hours in the UK become shorter during the fall months. (1 mark)

9. 9. What process, used by plants to make food from sunlight, slows down as the days get shorter? (1 mark)

10. 10. True or False: Fungi, such as mushrooms, often thrive in the damp, cool conditions of fall. (1 mark)

Draw: Draw a woodland scene showing how a tree changes from summer to fall, including fallen leaves on the ground and one animal preparing for winter.

Extension challenge: Nova the owl is worried about the changing weather. Write a short paragraph explaining one way a squirrel and one way a tree prepares for the arrival of winter.