Nova’s Springtime Science Quiz

Learning objective: To identify and describe the life cycles of plants and animals, and understand how environmental factors affect seasonal changes in Spring.

Read each question carefully and circle the correct answer. Nova the owl is counting on you to show your brilliant scientific knowledge!

Answer Key: 1. A (Spring Equinox), 2. False, 3. Germination, 4. B (Bees), 5. True, 6. Photosynthesis, 7. C (Temperature and Day Length), 8. True, 9. Amphibian, 10. B (Deciduous trees).

Word bank: Germination · Pollination · Photosynthesis · Migration · Equinox · Amphibian · Deciduous

1. 1. What is the name of the astronomical event in late March when day and night are approximately the same length? A) Spring Equinox* B) Winter Solstice C) Summer Equinox D) The Great Tilt (1 mark)

2. 2. True or False: Hibernating animals, like hedgehogs, usually emerge from their sleep in late autumn. (1 mark)

3. 3. What is the process called when a seed begins to grow and sprout into a new plant? (1 mark)

4. 4. Which of these is a vital process for spring flowers, often helped by insects like Bea the honeybee? A) Decomposition B) Pollination* C) Hibernation D) Evaporation (1 mark)

5. 5. True or False: As the weather warms up in spring, the rate of photosynthesis in many plants increases because there is more sunlight. (1 mark)

6. 6. What is the scientific term for the process where plants use sunlight, water, and carbon dioxide to create their own food? (1 mark)

7. 7. What are the two main environmental 'triggers' that tell plants and animals it is time for spring? A) Wind and Rain B) Soil pH and Humidity C) Temperature and Day Length* D) Gravity and Air Pressure (1 mark)

8. 8. True or False: Many birds complete their migration back to the UK during the spring to find nesting sites and food. (1 mark)

9. 9. A frog is a type of animal that lays its eggs in water during the spring. What class of animal is a frog? (1 mark)

10. 10. Which type of tree loses its leaves in autumn and grows new ones in the spring? A) Coniferous B) Deciduous* C) Evergreen D) Tropical (1 mark)

Draw: Draw a life cycle of a plant starting from a seed in the soil, through germination, to a flowering plant, and label the stages using the words from the word bank.

Extension challenge: Research how the change in day length affects the behaviour of a specific British animal. Write a short paragraph explaining why this adaptation is important for their survival.