Nova’s Life Cycle Challenge

Learning objective: To understand the life cycles of mammals, amphibians, insects, and birds, and identify the process of reproduction.

Join Nova the barn owl on an adventure through the natural world! Read each question carefully and circle your answer or write it clearly in the space provided. Good luck!

Answer Key: 1.C, 2.True, 3.False, 4.A, 5.Metamorphosis, 6.B, 7.True, 8.D, 9.False, 10.A. Notes: Ensure pupils understand that reproduction is the process by which living things produce offspring to ensure the survival of their species.

Word bank: Mammal · Amphibian · Metamorphosis · Pollination · Germination · Reproduction · Egg · Larva

1. 1. What is the process called when a living thing produces offspring? A) Growth, B) Germination, C) Reproduction*, D) Photosynthesis. (1 mark)

2. 2. True or False: All mammals give birth to live young rather than laying eggs. (1 mark)

3. 3. True or False: Flowering plants reproduce using spores only. (1 mark)

4. 4. Which of these is a stage in the life cycle of a frog? A) Tadpole*, B) Pupa, C) Chrysalis, D) Seed. (1 mark)

5. 5. What is the name of the transformation process some insects go through, such as a caterpillar changing into a butterfly? (1 mark)

6. 6. How do most birds, like Nova, begin their life cycle? A) Live birth, B) Laying an egg*, C) Budding, D) Spores. (1 mark)

7. 7. True or False: Insects, birds, and amphibians all have different stages in their life cycles. (1 mark)

8. 8. Which of these is an example of a mammal? A) Frog, B) Butterfly, C) Sparrow, D) Elephant*. (1 mark)

9. 9. True or False: Plants do not need to reproduce to make new plants. (1 mark)

10. 10. In a plant life cycle, what does a seed require to begin growing? A) Water and warmth*, B) Ice and darkness, C) Only soil, D) Only air. (1 mark)

Draw: Draw a circular diagram showing the four main stages of the life cycle of a butterfly. Remember to label each stage clearly for Nova!

Extension challenge: Research a specific animal, such as a kangaroo or a salmon. Write a short paragraph explaining how its life cycle is different from a human's life cycle.