

Nova's Nature Quiz: Reproduction and Life Cycles

Learning objective: To identify and describe the process of reproduction in animals and plants, and understand life cycles.

Join Nova the Barn Owl on a flight through the natural world! Read the questions carefully and choose the best answer. Good luck, young scientists!

Answer Key: 1. B (Sexual), 2. True, 3. False (it is fertilisation), 4. A (Pollination), 5. True, 6. Metamorphosis, 7. B (To produce offspring), 8. False, 9. Bulb, 10. True.

Word bank: Asexual · Sexual · Pollination · Fertilisation · Metamorphosis · Offspring · Germination · Adaptation

1. 1. What is the process called when two parents contribute genetic material to create offspring? A) Asexual reproduction B) Sexual reproduction* C) Photosynthesis D) Germination (1 mark)

2. 2. True or False: Flowering plants reproduce sexually. (1 mark)

3. 3. True or False: The process of a pollen grain meeting an ovule is called germination. (1 mark)

4. 4. What is the transfer of pollen from the anther to the stigma of a flower called? A) Pollination* B) Fertilisation C) Seed dispersal D) Budding (1 mark)

5. 5. True or False: Mammals give birth to live young. (1 mark)

6. 6. What is the term for the process where an animal, like a butterfly or frog, undergoes a dramatic physical change during its life cycle? (1 mark)

7. 7. Why do living things reproduce? A) To grow taller B) To produce offspring* C) To make their own food D) To survive the winter (1 mark)

8. 8. True or False: All plants grow from seeds. (1 mark)

9. 9. Some plants reproduce asexually using a part of the stem found underground. What is this structure called? (Hint: Like an onion or daffodil) (1 mark)

10. 10. True or False: Asexual reproduction involves only one parent. (1 mark)

Draw: Draw a life cycle diagram for a butterfly or a flowering plant, labelling the key stages like 'Egg', 'Larva', 'Pupa', 'Adult' or 'Seed', 'Germination', 'Flower'.



Extension challenge: Research a specific animal and write a short paragraph explaining its life cycle. How long does it take for the offspring to reach adulthood?