

Nova's Evolution Expedition

Learning objective: To understand how living things have changed over time and how they adapt to their environments.

Join Nova the barn owl on a journey through time! Read each question carefully and circle the best answer. Remember: evolution is a slow process that happens over many generations.

Answer Key: 1) C, 2) True, 3) B, 4) False (they are passed from parents to offspring), 5) Fossil, 6) A, 7) Adaptation, 8) True, 9) Natural selection, 10) False (they must adapt to survive).

Word bank: Adaptation · Fossil · Inheritance · Natural Selection · Environment · Species · Mutation

1. 1. What do we call the preserved remains or traces of a living thing from the past? A) Rock B) Sediment C) Fossil* D) Mineral (1 mark)

2. 2. True or False: Evolution happens very quickly, usually over just a few days. (1 mark)

3. 3. Which scientist is famous for his theory of evolution by natural selection? A) Isaac Newton B) Charles Darwin* C) Albert Einstein D) Marie Curie (1 mark)

4. 4. True or False: Traits like eye colour are inherited from our parents. (1 mark)

5. 5. What is the specific word for a feature that helps an organism survive in its habitat? (One word answer) (1 mark)

6. 6. Why do giraffes have long necks? A) To reach high leaves* B) To look cool C) To help them swim D) To fight lions (1 mark)

7. 7. What is the process where organisms better suited to their environment survive and reproduce? A) Mutation B) Natural selection* C) Hibernation D) Migration (1 mark)

8. 8. True or False: An animal's environment can change over time, which may lead to new adaptations. (1 mark)

9. 9. If an animal cannot adapt to a major change in its environment, what is the most likely outcome? A) It grows bigger B) It changes colour C) Extinction* D) It learns to talk (1 mark)

10. 10. True or False: All living things today are related to ancestors from millions of years ago. (1 mark)

Draw: Draw an imaginary creature that has evolved to live on a planet with very strong winds. Think about what features it would need to stay grounded!



Extension challenge: Choose an animal found in the UK. Research two adaptations it has and explain to a partner how these help it survive in its local habitat.