Nova’s Adaptation Adventure Quiz

Learning objective: To understand how living things are adapted to suit their environment in different ways and that adaptation may lead to evolution.

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

Answer Key: 1. B, 2. True, 3. Camouflage, 4. C, 5. True, 6. False, 7. B, 8. Hibernate, 9. A, 10. False. Remember: Adaptation is how an organism changes over many generations to better survive in its habitat.

Word bank: Adaptation · Environment · Evolution · Inherited · Characteristics · Habitat · Survival

1. 1. What is an adaptation? A) A type of animal diet B) A feature that helps an organism survive in its habitat* C) A way of moving D) A type of plant (1 mark)

2. 2. True or False: Adaptations are passed from parents to offspring through their genes. (1 mark)

3. 3. What term describes an animal using colour or patterns to blend into its surroundings to hide from predators? (1 mark)

4. 4. Why do polar bears have a thick layer of fat called blubber? A) To look bigger B) To store extra food C) To keep warm in freezing temperatures* D) To help them swim faster (1 mark)

5. 5. True or False: Cactus plants have adapted to store water in their stems to survive in hot, dry deserts. (1 mark)

6. 6. True or False: All living things can change their physical features instantly whenever their environment changes. (1 mark)

7. 7. Which of these is an example of a behavioural adaptation? A) Sharp claws B) Birds migrating to warmer climates* C) Webbed feet D) Thick fur (1 mark)

8. 8. What do some animals do during the winter to survive when food is scarce and temperatures are low? (1 mark)

9. 9. Why are fish adapted to have gills? A) To extract oxygen from the water* B) To swim in straight lines C) To communicate with other fish D) To regulate their body temperature (1 mark)

10. 10. True or False: An animal that lives in the ocean would be well-adapted to live in a dry, sandy desert without any changes. (1 mark)

Draw: Imagine a brand new creature Nova found in a forest! Draw this creature and label two specific adaptations it has that help it survive in the woods, such as its beak, fur, or feet.

Extension challenge: Research a desert animal and a rainforest animal. Write a short paragraph explaining one specific way each has adapted to its unique environment.