

# Nova's Habitat Expedition Log

*Learning objective: To identify and describe how animals are adapted to suit their environment, and to explain how changes in an environment can pose dangers to living things.*

Choose a specific habitat to investigate. Research how the creatures living there have adapted to survive. Use your scientific knowledge to complete the log below. Ensure you use specific vocabulary to describe the environmental conditions.

*Word bank: adaptation · camouflage · environment · predator · prey · ecosystem · insulation · sustainability · nocturnal*

**1. Habitat Identification: Name your chosen habitat and describe its key characteristics, such as temperature, light levels, and available resources. (2 marks)**

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**2. Structural Adaptations: Choose one animal from this habitat. Explain how its physical features (e.g., fur, beak, claws) help it to survive. (3 marks)**

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**3. Behavioural Adaptations: Describe one specific behaviour of this animal that helps it avoid predators or find food efficiently. (2 marks)**

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**4. Compare and Contrast: Compare the survival strategies of a predator and its prey within this ecosystem. How do their adaptations differ? (4 marks)**

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**5. Justify your answer: Explain why a creature from a polar habitat would likely struggle to survive if it were suddenly moved to a tropical rainforest. (3 marks)**

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**6. Environmental Impact: What might happen to this habitat if the average temperature increased by 5 degrees? Explain the potential consequences for the food chain. (4 marks)**

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*Extension challenge: Design a 'Future Creature' that is perfectly adapted to survive in a habitat that has been affected by human-made environmental changes. Write a short paragraph justifying your design choices based on the new environmental conditions.*