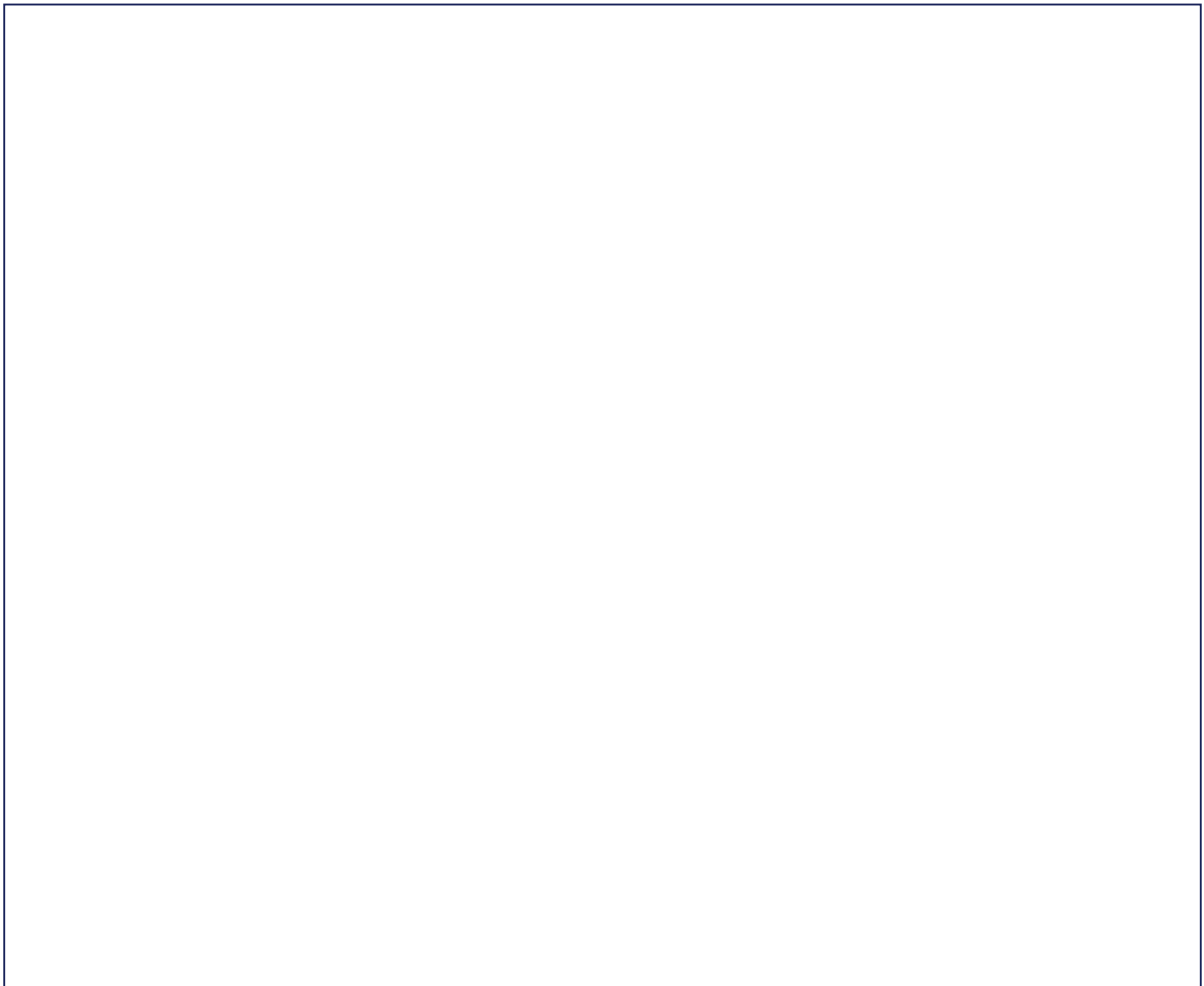


Nova's Habitat Design Lab

Learning objective: To identify and illustrate the essential components of a habitat and explain how an animal is adapted to its environment.

Use the drawing space to design a habitat for a creature of your choice. Ensure you include food sources, water, and shelter. Use the word bank to label your diagram accurately.

Draw: Create a detailed, A4-sized scientific diagram of a habitat. Use a clear, labelled style similar to a nature journal. Include the chosen animal, a clear water source, varied vegetation (producers), and a shelter. Use colours to represent the environment, such as deep greens for a forest or sandy yellows for a desert, ensuring the animal's features stand out as adaptations.



Label words: Environment · Adaptation · Shelter · Source of water · Food chain · Climate · Producer · Consumer

Steps:

1. Step 1: Draw your chosen animal in the centre of the page. List two physical adaptations (e.g. sharp claws or thick fur) that help it survive in its habitat.
2. Step 2: Label the specific 'shelter' your animal uses to stay safe from predators or extreme weather.
3. Explain why your chosen animal would struggle to survive if the 'climate' of its habitat changed suddenly.

Provide evidence to justify your answer.

4. Compare and contrast your designed habitat with a desert habitat. What are the key differences in the sources of water available?
5. Identify one 'producer' and one 'consumer' in your drawing. How does the producer provide energy for the food chain?
6. What might happen if a new, invasive species were introduced into your habitat? Justify your prediction.