

Exploring Habitats with Bea the Bee

Learning objective: To identify, describe, and classify living things according to their specific habitats and environmental conditions.

Read each question carefully. Use your scientific knowledge about habitats, adaptations, and food chains to provide detailed answers. Remember to use the word bank to help with your scientific vocabulary.

Bea the honeybee is busy mapping the local meadow and the nearby woodland. She notices that every creature has a specific home that provides them with food, water, and shelter. From the damp, shaded forest floor to the sunny, open wildflower meadow, each environment supports different life. Use your knowledge of these habitats to answer the questions below.

Word bank: habitat · adaptation · environment · ecosystem · classification · shelter · predator · prey · conservation

1. Bea observes a frog living near a pond. Identify two features that help the frog survive in its aquatic habitat and explain how these adaptations assist its survival. (4 marks)

2. Compare and contrast the woodland habitat with the meadow habitat. What environmental factors make these two areas suitable for different types of plants and animals? (4 marks)

3. Explain why a sudden change in an environment, such as a drought or a new building development, might force animals to migrate or put their survival at risk. (3 marks)

4. Justify your answer: If a new predator was introduced into a stable woodland ecosystem, what might happen to the existing food chain? Provide a reason for your prediction. (3 marks)

5. Classify the following creatures into their most likely habitat: A woodlouse, a dragonfly, and a badger. Give one reason for your classification for each. (3 marks)

Draw: Draw a diagram of a micro-habitat (such as under a log or in a hedgerow). Label at least three living things and two non-living things that make this habitat suitable for the organisms living there.



Extension challenge: Imagine you are a scientist documenting a newly discovered habitat in your local park. Write a field report describing the 'conditions' (light, moisture, temperature) and create a fictional species that has perfectly adapted to live there. Explain its unique physical features.