

Exploring Global Biomes with Finn the Dolphin

Learning objective: To identify, describe, and compare different biomes and understand how climate affects the flora and fauna within them.

Use your geographical knowledge of climate zones and biomes to complete the tasks below. Think carefully about how animals and plants adapt to their environments.

Finn the Dolphin has been mapping the world's biomes. From the freezing Arctic to the humid equator, Finn has noticed that every place has a unique set of living things that have adapted to suit their environment. Whether it is a cactus storing water in the sand or a thick-furred animal hiding from the icy winds, nature is full of clever survival strategies.

Word bank: Tropical Rainforest · Desert · Tundra · Temperate Forest · Grassland · Adaptation · Climate · Ecosystem · Precipitation

1. Finn is visiting a biome with very little rainfall and extreme temperatures. Identify this biome and explain one physical adaptation a plant might have to survive there. (2 marks)

2. Compare and contrast the climate of a Tropical Rainforest with the climate of a Tundra. Use the word 'precipitation' in your answer. (3 marks)

3. Justify why a creature with thick fur and a layer of blubber would struggle to survive in a Temperate Forest during the summer months. (2 marks)

4. Explain why many animals in the Grassland biome are migratory. What might happen if their food source suddenly vanished? (3 marks)

5. If you were to design an animal perfectly suited for a Desert biome, what two features would you give it and why? (2 marks)

Draw: Draw a 'Split-Biome' landscape. On the left side, illustrate a Tundra with snow and hardy shrubs. On the right side, illustrate a Tropical Rainforest with dense, leafy trees and bright flowers. Add one animal to each side that is perfectly adapted to its home.



Extension challenge: Imagine you are an explorer travelling from the equator towards the North Pole. Write a short journal entry (100 words) describing the changes you see in the landscape, the temperature, and the types of plants you encounter as you cross through different biomes.