

Finn's Biome Explorer Field Journal

Learning objective: To identify and compare the physical and human characteristics of global biomes, explaining how climate influences the life found within them.

Join Finn the dolphin on a global expedition! Choose two distinct biomes you have studied (e.g., Tropical Rainforest, Desert, Tundra, or Deciduous Forest). Fill in the sections below to categorise your findings. Use the word bank to help enrich your descriptions and ensure you justify your reasoning based on the climate of each region.

Word bank: precipitation · adaptations · biodiversity · latitude · arid · canopy · vegetation · ecosystem · temperature · equator

1. Biome Identification: Name your two chosen biomes and describe their general climate, including average temperature and annual precipitation patterns. (2 marks)

2. Flora and Fauna Adaptations: Explain why specific plants or animals found in these biomes have evolved unique features to survive their environment. (3 marks)

3. Compare and Contrast: How do the levels of biodiversity differ between your two chosen biomes? Justify your answer using evidence regarding the climate. (3 marks)

4. Human Influence: Describe one way in which human activity has altered the landscape of one of your chosen biomes. (2 marks)

5. Predicting Consequences: What might happen to the food web in your chosen biome if the average annual rainfall were to decrease significantly over a decade? (4 marks)

6. Geographical Synthesis: Compare the location of these biomes in relation to the equator. Explain why latitude is a primary factor in determining a biome's classification. (4 marks)

Extension challenge: Design a 'Future Biome' that could exist if climate patterns continue to shift. Create a map sketch showing where this new biome might be located, and write a brief report explaining what unique species might evolve there and how they would adapt to the new temperature and moisture conditions.