

Finn's Global Weather and Climate Expedition

Learning objective: To identify, describe, and compare the differences between weather and climate across different biomes, using geographical vocabulary to justify findings.

Join Finn the dolphin on his global mapping expedition! Use your knowledge of geography to investigate how weather patterns change depending on where you are in the world. Research a specific region, complete the sections below, and use your analytical skills to answer the challenge questions.

Word bank: meteorological · precipitation · temperature · latitude · atmospheric · biome · equatorial · temperate · arid · climate zone

1. Identify the region you are investigating and describe its current weather conditions. What evidence suggests this is 'weather' rather than 'climate'? (3 marks)

2. Summarise the long-term climate of this region. Explain why the latitude of this location significantly influences its yearly temperature and rainfall patterns. (4 marks)

3. Compare and contrast the climate of your chosen region with the United Kingdom. What are the key similarities and differences in seasonal changes? (4 marks)

4. Justify your answer: If the global temperature were to rise by 2 degrees Celsius, how might the local biome in your chosen region be permanently altered? (5 marks)

5. What might happen if a region that usually experiences an arid climate suddenly faced a decade of high precipitation? Explain the potential impact on the local geography. (5 marks)

6. Explain why it is important for scientists to distinguish between short-term weather events and long-term climate trends when tracking global environmental changes. (4 marks)

Extension challenge: Imagine you are a climatologist. Write a brief professional report explaining how a specific extreme weather event (such as a drought or a tropical storm) is linked to the broader climate of your chosen region. Use the vocabulary from the word bank to support your explanation.