

Finn's Global Climate Explorer Fact-File

Learning objective: To understand the differences between climate zones and investigate how human activity and physical geography influence global climate patterns.

Join Finn the dolphin on a voyage across the globe! Use your geography knowledge to research two contrasting climate zones. Complete this fact-file by comparing your chosen regions, explaining the factors that influence their weather, and considering the long-term impact of climate change.

Word bank: Equator · Latitude · Precipitation · Atmosphere · Tropic · Temperate · Polar · Altitude · Sustainability · Greenhouse effect

1. Climate Zone Comparison: Identify two distinct climate zones (e.g., Tropical and Polar). Describe the typical weather patterns and vegetation found in each. (4 marks)

2. Geographical Influence: Explain why proximity to the Equator affects the temperature of a climate zone. Include the role of latitude in your explanation. (3 marks)

3. Compare and contrast: How does the altitude of a mountain range within a region change the local climate compared to the surrounding lowlands? (3 marks)

4. Justify your answer: Why is it important for scientists to monitor changes in global temperatures over several decades rather than just looking at one year of weather data? (3 marks)

5. What might happen if: Imagine global average temperatures continue to rise. What might happen to the habitats of animals living in Polar regions? Explain your reasoning. (4 marks)

6. Critical Thinking: Propose one sustainable change that a local community could make to reduce their carbon footprint. Explain why this would be effective. (3 marks)

Extension challenge: Research a specific country that is currently being affected by climate change. Write a persuasive paragraph explaining what the international community should do to support that country, using evidence to justify your suggestions.