

Finn's Volcanic Explorer Fact-File

Learning objective: To identify, describe, and explain the physical features and formation of volcanoes using geographical vocabulary.

Welcome, young explorer! Join Finn the dolphin as he travels the world to map tectonic activity. Use your best geographical knowledge to complete this fact-file. Remember to use scientific terminology to explain how these powerful natural wonders shape our planet.

Word bank: Magma · Lava · Crust · Mantle · Vent · Tectonic plates · Eruption · Dormant · Active · Extinct

1. Define the difference between magma and lava. Explain why this distinction is important when describing an eruption. (3 marks)

2. Describe the structure of a volcano. Label the key features such as the vent, crater, and magma chamber. (3 marks)

3. Explain why most volcanoes are found near the boundaries of tectonic plates. What happens when these plates move? (4 marks)

4. Compare and contrast an 'active' volcano with an 'extinct' volcano. Justify your answer with specific examples of their behavior. (4 marks)

5. What might happen to the surrounding local environment and human settlements immediately following a major volcanic eruption? (3 marks)

6. Evaluate the impact of volcanoes on the earth's surface. How can they be considered both destructive and constructive forces? (4 marks)

Extension challenge: Imagine you are a volcanologist reporting to Finn. Write a short persuasive paragraph justifying why it is important for governments to monitor volcanoes that are currently 'dormant'. Use at least three key terms from the word bank in your argument.