Finn’s Volcanic Geography Expedition

Learning objective: To understand the physical processes of volcanoes and identify their location in relation to tectonic plates.

Read each question carefully and use your geography knowledge to provide detailed answers. Use the word bank to help you with terminology.

Finn the dolphin has been mapping the world's geography and has dived deep to investigate the Earth's layers and volcanic activity. Use what you have learned in class to help Finn complete his field notes.

Word bank: Magma · Lava · Tectonic Plates · Crust · Vent · Eruption · Ring of Fire

1. Explain the difference between magma and lava. Where is each one found? (2 marks)

2. Volcanoes often form where tectonic plates meet. Describe what happens to the Earth's crust at these plate boundaries. (2 marks)

3. The 'Ring of Fire' is a famous area in the Pacific Ocean. Why is it given this name? (2 marks)

4. List two ways that a volcanic eruption can change the local landscape or environment. (2 marks)

5. Look at a map of the world. Why might some countries have more active volcanoes than others? (2 marks)

Draw: Draw a cross-section of a volcano. Label the magma chamber, the main vent, the crater, and the layers of ash and cooled lava.

Extension challenge: Research a famous historical volcanic eruption, such as Mount Vesuvius. Write a short diary entry from the perspective of someone living near the volcano on the day of the eruption.