

Finn's Volcanic Explorer Challenge

Learning objective: To identify the parts of a volcano and understand the process of an eruption.

Finn the dolphin has travelled from the ocean to explore a dormant volcano! Use the terms in the word bank to correctly label the diagram of the volcano below. Once you have labelled it, answer the questions to explain how a volcano works.

Word bank: Crater · Magma chamber · Vent · Lava · Ash cloud · Conduit

1. Explain the difference between magma and lava. Hint: Think about where they are located. (2 marks)

2. What is the role of the 'vent' during a volcanic eruption? (1 mark)

3. If a volcano is described as 'dormant', what does this tell us about its activity level? (1 mark)

4. Why might a village living near an active volcano be at risk? Give one geographical reason. (2 marks)

5. Max the monkey wants to calculate the cost of safety equipment. If a specialised heat-resistant suit costs £145.50 and a helmet costs £35.25, what is the total cost for one explorer? (2 marks)

Draw: Draw a cross-section of a volcano. Label the magma chamber at the bottom, the conduit (pipe) leading upwards, and the crater at the top. Add an ash cloud erupting from the summit.



Extension challenge: Research a famous historical volcanic eruption, such as Mount Vesuvius or Krakatoa. Write a short diary entry from the perspective of someone witnessing the event.