

Volcano Explorer's Field Journal

Learning objective: To identify and describe the physical features of a volcano and explain how they are formed.

Join Nova the owl on an expedition to study volcanoes. Use your geography knowledge to complete this field journal. Research the key terms in the word bank and describe what happens during an eruption.

Word bank: Magma · Lava · Crater · Vent · Tectonic plates · Eruption · Ash cloud

1. The Anatomy of a Volcano: Describe the difference between magma and lava, and explain how they move through the Earth's crust. (3 marks)

2. Location and Tectonics: Explain why volcanoes are often found near the edges of tectonic plates. What happens when these plates move? (3 marks)

3. The Eruption Process: Use your own words to describe the sequence of events that leads to a volcanic eruption. (4 marks)

4. Positive Impacts: Although dangerous, volcanoes can be helpful. List two ways that volcanic soil or activity can benefit the surrounding environment. (2 marks)

5. Safety Measures: If a community lives near an active volcano, what preparations should they make to stay safe? (2 marks)

Extension challenge: Research a famous historical volcanic eruption, such as Mount Vesuvius or Krakatoa. Write a short paragraph explaining the impact it had on the people living nearby at the time.