

# Finn's Fiery Volcano Expedition

*Learning objective: To identify the key features of a volcano, understand how they are formed, and recognize their impact on the Earth's surface.*

Join Finn the Dolphin on an underwater and land-based adventure! Read each question carefully and circle the correct answer or write your response in the space provided. Good luck, young explorers!

Answer Key: 1. B (Tectonic plates), 2. True, 3. Magma, 4. C (Lava), 5. False, 6. Crater, 7. A (Dormant), 8. Ash, 9. The opening through which volcanic material is emitted, 10. They can create new land by cooling and hardening.

*Word bank: Magma · Lava · Crater · Tectonic Plates · Eruption · Vent · Ash · Dormant*

**1. 1. Volcanoes are often found where the Earth's outer shell is cracked. What are these giant moving sections called? A) Continental Shelves B) Tectonic Plates\* C) Ocean Floors D) Crustal Layers (1 mark)**

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**2. 2. True or False: Volcanoes only exist on land. (1 mark)**

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**3. 3. What is the name for molten rock while it is still trapped deep underground? (1 mark)**

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**4. 4. Once molten rock breaks through the surface during an eruption, what is it called? A) Steam B) Gas C) Lava\* D) Obsidian (1 mark)**

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**5. 5. True or False: All volcanoes erupt every single year. (1 mark)**

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**6. 6. What is the bowl-shaped opening at the very top of a volcano called? (1 mark)**

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**7. 7. A volcano that is currently 'sleeping' and is not expected to erupt for a long time is called: A) Dormant\* B) Extinct C) Active D) Quiet (1 mark)**

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**8. 8. During a violent eruption, tiny particles of rock and glass are blasted into the air. What is this material called? (1 mark)**

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**9. 9. Define the term 'vent' in your own words. (1 mark)**

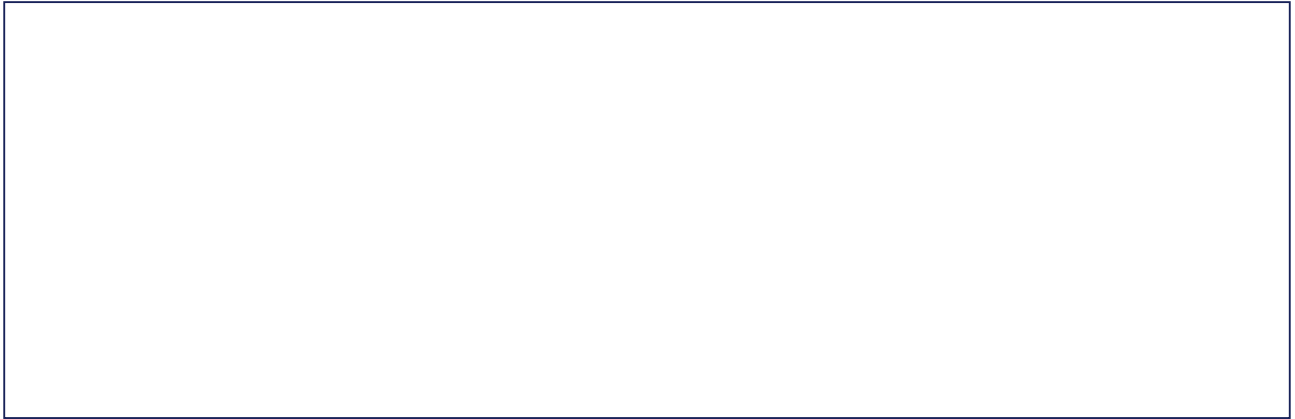
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**10. 10. Explain one positive way that volcanoes can change the landscape of our planet. (1 mark)**

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**Draw: Draw a cross-section of a volcano. Label the magma chamber, the main vent, the crater, and the lava flow. Use bright colors to show the heat of the molten rock!**



*Extension challenge: Greater Depth Challenges: 1. Compare and contrast an active volcano with a dormant one. 2. Justify why people might choose to live near a volcano despite the risks. 3. Explain why volcanic ash can make soil extremely fertile for farmers. 4. What might happen if a large underwater volcano erupted near an island? 5. Why do scientists study the gases released by volcanoes? 6. Research the 'Ring of Fire' and describe why it has such a high concentration of volcanic activity.*