

# Volcanology Basics

Volcanology · Answer Key · 12 Questions

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**1. What is the molten rock called when it is found beneath the Earth's surface?**

- A) Lava
- B) Ash
- C) Magma**
- D) Pumice

**2. Which of these is the most common type of volcano, characterized by its broad, gently sloping sides formed from fluid lava flows?**

- A) Stratovolcano
- B) Cinder cone
- C) Caldera
- D) Shield volcano**

**3. What is the term for volcanic ash, rock fragments, and gases that are ejected from a volcano during an eruption?**

- A) Magma plume
- B) Pyroclastic flow**
- C) Lava dome
- D) Lahar

**4. Which famous volcano erupted in 79 AD, famously burying the Roman cities of Pompeii and Herculaneum?**

- A) Mount Vesuvius**
- B) Mount Fuji
- C) Mount St. Helens
- D) Kilauea

**5. What is the name for a large, steep-sided volcano built up of alternating layers of lava flows and ash deposits?**

- A) Shield volcano
- B) Cinder cone
- C) Stratovolcano**
- D) Maar

**6. What is the name of the opening at the Earth's surface through which volcanic materials erupt?**

- A) Crater
- B) Vent**
- C) Caldera
- D) Fissure

**7. Which of the following is a fast-moving current of hot gas and volcanic matter that flows along the ground?**

- A) Lava flow
- B) Volcanic bomb
- C) Pyroclastic flow**
- D) Tephra

**8. The Hawaiian Islands were formed by a volcanic hotspot, which is a plume of hot mantle rising from deep within the Earth. What type of volcano is most common in Hawaii?**

- A) Stratovolcano
- B) Cinder cone
- C) Shield volcano**
- D) Composite volcano

**9. What is the term for a mudflow or debris flow composed of pyroclastic material, rocky debris, and water, often triggered by volcanic eruptions?**

- A) Lava dome
- B) Lahar**
- C) Volcanic gas
- D) Ash cloud

**10. Which of these is a volcanic cone that is relatively small and steep-sided, formed by the accumulation of cinders around a vent?**

- A) Stratovolcano
- B) Shield volcano
- C) Caldera
- D) Cinder cone**

**11. What gas is commonly released by volcanoes and can form acid rain?**

- A) Nitrogen
- B) Oxygen
- C) Sulfur dioxide**
- D) Carbon monoxide

**12. A large depression formed by the collapse of a volcano after an eruption is known as a:**

- A) Crater
- B) Vent
- C) Caldera**
- D) Fissure