

Volcanology Basics

Geology · Practice Test · 15 Questions

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

- A) Lava
- B) Magma
- C) Ash
- D) Obsidian

2. Which type of volcano is formed by layers of lava and ash, typically having a steep, conical shape?

- A) Shield volcano
- B) Cinder cone
- C) Composite volcano
- D) Lava dome

3. What is the term for the opening at the top of a volcano through which volcanic materials are ejected?

- A) Crater
- B) Vent
- C) Chamber
- D) Fissure

4. Which of these is a common gas released by a volcanic eruption?

- A) Oxygen
- B) Nitrogen
- C) Water vapor
- D) Helium

5. What is the 'Ring of Fire' primarily known for?

- A) High levels of volcanic activity
- B) Extreme cold weather
- C) Ancient coral reefs
- D) Dense tropical forests

6. Which material is created when lava cools very quickly on the Earth's surface?

- A) Granite
- B) Limestone
- C) Obsidian
- D) Marble

7. What type of volcano is wide, broad, and built almost entirely of fluid lava flows?

- A) Shield volcano
- B) Composite volcano
- C) Cinder cone
- D) Strato-volcano

8. What are the small, pyroclastic particles thrown into the air during an eruption called?

- A) Pumice
- B) Basalt
- C) Volcanic ash
- D) Tuff

9. What instrument is used by scientists to detect vibrations caused by moving magma?

- A) Thermometer
- B) Seismograph
- C) Barometer
- D) Anemometer

10. Which of these describes a volcano that is not currently erupting but is expected to erupt again in the future?

- A) Extinct
- B) Dormant
- C) Active
- D) Expired

11. Where is the vast majority of the Earth's volcanic activity located?

- A) In the middle of deserts
- B) Along plate boundaries
- C) Underneath large lakes
- D) On the tops of mountains

12. What is the thick, sticky molten rock that flows slowly during an eruption called?

- A) High-viscosity lava
- B) Low-viscosity magma
- C) Steam
- D) Tephra

13. What is the name for a massive, bowl-shaped depression that forms when a volcano collapses after an eruption?

- A) Caldera
- B) Fissure
- C) Vent
- D) Pipe

14. Which rock is formed from the cooling and solidification of magma or lava?

- A) Sedimentary rock
- B) Igneous rock
- C) Metamorphic rock
- D) Organic rock

15. What do scientists call a scientist who studies volcanoes?

- A) Archaeologist
- B) Geologist
- C) Volcanologist
- D) Meteorologist