

## Volcanoes Quiz Answer Key PDF

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**What type of volcano is characterized by broad, gentle slopes and is primarily formed by low-viscosity lava flows?**

- A. Composite Volcano
- B. Shield Volcano ✓**
- C. Cinder Cone Volcano
- D. Lava Dome

**Discuss the role of hotspots in the formation of volcanic islands.**

**Hotspots play a crucial role in the formation of volcanic islands by providing a consistent source of magma that creates islands as tectonic plates drift over them.**

**How do volcanic soils contribute to agriculture, and why are they considered fertile?**

**Volcanic soils contribute to agriculture by providing high levels of essential nutrients and minerals, making them fertile and ideal for growing a variety of crops.**

**What are the benefits and risks associated with living near a volcano?**

**The benefits of living near a volcano include access to rich agricultural land and geothermal energy, while the risks involve potential volcanic eruptions, ashfall, and lava flows that can cause destruction and loss of life.**

**Which volcanic feature is a large depression formed when a volcano erupts and collapses?**

- A. Crater
- B. Vent
- C. Caldera ✓**

D. Fissure

**Which volcanic hazard involves a mixture of water and volcanic debris flowing rapidly down the slopes of a volcano?**

- A. Lava Flow
- B. Pyroclastic Flow
- C. Ash Fall
- D. Lahar ✓**

**Which of the following is a key indicator of an impending volcanic eruption?**

- A. Decrease in gas emissions
- B. Increase in seismic activity ✓**
- C. Decrease in ground temperature
- D. Decrease in volcanic tremors

**Explain how plate tectonics contribute to the formation of volcanoes.**

**Volcanoes are formed primarily at tectonic plate boundaries, where the movement of plates can create conditions for magma to escape from the Earth's mantle, leading to volcanic eruptions.**

**Which of the following are famous volcanoes known for significant eruptions?**

- A. Mount Vesuvius ✓**
- B. Mount Everest
- C. Krakatoa ✓**
- D. Mount St. Helens ✓**

**Which of the following are volcanic hazards?**

- A. Ash Fall ✓**
- B. Tsumamis
- C. Pyroclastic Flows ✓**
- D. Earthquakes

**Describe the differences between effusive and explosive volcanic eruptions.**

**Effusive eruptions produce lava flows with low viscosity, allowing magma to escape easily, whereas explosive eruptions occur when high-viscosity magma traps gas, leading to violent explosions.**

**What are some characteristics of composite volcanoes?**

- A. Steep-sided ✓**
- B. Form ed by layers of lava and ash ✓**
- C. Broad, gentle slopes
- D. Symmetrical cones ✓**

**What measures can be taken to prepare for and mitigate the impacts of volcanic eruptions on human populations?**

**Measures include establishing early warning systems, conducting emergency drills, creating evacuation plans, and educating the public about volcanic risks.**

**What are the classifications of volcanoes based on their eruption history?**

- A. Active ✓**
- B. Dormant ✓**
- C. Extinct ✓**
- D. Erupt ive

**What is the primary cause of volcanic activity at divergent plate boundaries?**

- A. Subduction
- B. Sea-floor spreading ✓**
- C. Hotspot activity
- D. Continental collision

**What type of volcano is typically small, steep-sided, and formed from tephra, ash, and cinders?**

- A. Shield Volcano
- B. Composite Volcano
- C. Cinder Cone Volcano ✓**

D. Lava Dome

**Which of the following are types of volcanic eruptions?**

- A. Effusive Eruptions ✓**
- B. Explosive Eruptions ✓**
- C. Seismic Eruptions
- D. Dormant Eruptions

**What is the term for fast-moving currents of hot gas and volcanic matter that flow down the sides of a volcano?**

- A. Lava Flow
- B. Ash Fall
- C. Pyroclastic Flow ✓**
- D. Lahar

**Which factors are used to monitor and predict volcanic eruptions?**

- A. Seismology ✓**
- B. Gas Emissions ✓**
- C. Ground Deformation ✓**
- D. Solar Activity

**Which volcano is famous for its eruption in AD 79 that buried the city of Pompeii?**

- A. Mount St. Helens
- B. Krakatoa
- C. Mount Vesuvius ✓**
- D. Mauna Loa