

Advanced Volcanology Challenge

Earth Science · Answer Key · 3 Questions

1. What property of magma, largely influenced by its silica content, is the primary control on whether a volcanic eruption is explosive or effusive?

- A) Temperature
- B) Viscosity**
- C) Density
- D) Crystal content

2. Which volcanic hazard is a fast-moving current of hot gas and volcanic matter, capable of traveling at speeds over 100 km/h and incinerating everything in its path?

- A) Lahar
- B) Ash fall
- C) Pyroclastic flow**
- D) Lava flow

3. What large, basin-shaped depression forms when the roof of a magma chamber collapses after a massive eruption empties the chamber?

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