

Name \_\_\_\_\_

## The Fiery Fury: How Volcanic Eruptions Occur

### Open-Ended Response Answer Key

1. Answers should compare and contrast explosive and effusive eruptions in terms of their characteristics, magma types, hazards, and examples of volcanoes known for each type of eruption.
2. Answers may include steps such as installing seismometers, monitoring gas emissions, measuring ground deformation, and establishing communication channels with local authorities.
3. Discuss the potential hazards of volcanic eruptions, such as ashfall, lava flows, and pyroclastic flows, as well as benefits like fertile soil and geothermal energy sources.
4. Explain how the study of volcanic eruptions provides insights into the Earth's interior, including the composition of magma, the structure of magma chambers, and the processes driving volcanic activity.

