

Name _____

Earthquakes and Volcanoes: Unraveling the Connection

Open-Ended Response Questions

1. Describe the process of plate tectonics and how it leads to the formation of plate boundaries. Provide an example of a well-known plate boundary.
2. Explore the role of hotspots in intraplate volcanism and explain how they can lead to the formation of volcanic islands, like the Hawaiian Islands.
3. Discuss the challenges and benefits of living in a region with frequent seismic and volcanic activity. What measures can individuals and communities take to enhance safety in such areas?
4. Reflect on the implications of the connection between earthquakes and volcanoes for disaster preparedness and mitigation efforts in regions prone to these natural events. How can scientific understanding of this relationship improve the resilience of communities?

