

Name _____

Volcanoes Beyond Earth: Exploring Volcanic Activity on Other Planets

Open-Ended Response Questions

1. Compare and contrast the volcanic activity on Mars, Venus, and Io, focusing on their geological features, eruption styles, and underlying causes.
2. Imagine you are a scientist tasked with studying Olympus Mons on Mars. Describe the challenges and opportunities you would face in conducting research on this distant volcano.
3. How might the study of volcanoes on other celestial bodies help us better understand Earth's volcanoes and the processes that shape our planet?
4. If humans were to explore and colonize another planet or moon with volcanic activity, what potential benefits and challenges might they encounter? Discuss the implications for future space exploration.

