

Name _____

Unveiling the Earth's Hidden Layer: Exploring the Marvelous Mantle

Open-Ended Response Questions

1. Imagine you're a scientist exploring the Earth's mantle. What tools and methods would you use to gather information about this hidden layer?
2. Discuss how the mantle's temperature and flow contribute to the formation of volcanic islands and mountain ranges on Earth.
3. Why is the mantle often referred to as the "hidden engine" of the Earth's geological processes? Provide examples of its influence on the planet's evolution.
4. How might a better understanding of the mantle help humans mitigate the impact of geological hazards such as earthquakes and volcanic eruptions?

