

Name _____

Plate Tectonic Boundaries: Where Earth's Puzzle Pieces Meet

Open-Ended Response Questions

1. Compare and contrast the geological processes and features associated with divergent, convergent, and transform boundaries. Provide specific examples for each.
2. Imagine you are a scientist studying plate tectonics. How might your understanding of plate boundaries and their interactions help predict and mitigate natural disasters, such as earthquakes and volcanic eruptions?
3. Discuss the significance of plate tectonic boundaries in the context of Earth's evolution and the formation of its landscapes. Provide examples of famous geological features created by plate interactions.
4. Explain why the study of plate tectonics and plate boundaries is essential for understanding the Earth's past, present, and future geological processes and events.

