

Name _____

Plate Tectonics: Shaping Earth's Climate and Oceans

Open-Ended Response Questions

1. Investigate the potential consequences of alterations in plate tectonics, such as a drastic change in the rate of seafloor spreading, on the Earth's climate and oceans. What might be the long-term effects?
2. Analyze the impact of human activities on the climate and consider how they interact with natural processes influenced by plate tectonics. How can we mitigate these effects?
3. Examine the role of plate tectonics in the history of Earth's climate, including the formation of past supercontinents and their influence on ancient climates.
4. Discuss the interconnectedness of plate tectonics, climate, and biodiversity in the world's oceans. How do shifts in ocean basins and currents impact marine ecosystems?

