

Name \_\_\_\_\_

## Seafloor Spreading: Unveiling Earth's Hidden Secrets

### Open-Ended Response Questions

1. Imagine you are a scientist studying seafloor spreading. Explain the potential implications of this process on oceanic ecosystems, continental drift, and geological hazards, such as earthquakes and volcanic eruptions.
2. Discuss the importance of seafloor spreading in the context of Earth's changing climate and the effects of ocean circulation on global weather patterns.
3. Explain the differences between continental and oceanic crust and how seafloor spreading plays a role in the formation and recycling of oceanic crust. Provide examples of regions where seafloor spreading occurs.
4. Analyze the long-term effects of seafloor spreading on the geological history of the Earth and how it has shaped the distribution of continents and ocean basins over millions of years.

