

Name \_\_\_\_\_

## Cracking the Code: How Do We Know Earth's Plates Are Moving?

### Open-Ended Response Questions

1. If you were a scientist conducting research on plate tectonics, what other types of evidence or methods might you use to support the theory of plate movement?
2. Describe how the distribution of earthquakes and volcanic activity is related to the movement of tectonic plates.
3. How does the evidence of magnetic alignment in volcanic rocks on the ocean floor provide insight into the history of plate movement?
4. Explain why understanding plate tectonics is essential for predicting and mitigating natural disasters like earthquakes and volcanic eruptions.

