

Name _____

Shaking Ground and Uncertain Predictions: Can Earthquakes Be Forecasted?

Open-Ended Response Questions

1. Research and discuss a notable historical earthquake event and its impact on the affected region. Explain whether or not this earthquake could have been predicted with accuracy based on available information.
2. Explore the factors that contribute to the diversity of geological conditions worldwide and their implications for earthquake prediction. Provide examples of regions with unique tectonic settings.
3. Reflect on the ethical considerations and challenges associated with earthquake prediction and early warning systems. How can societies balance the need for accurate information with the potential for false alarms?
4. Discuss the role of community preparedness in earthquake-prone regions and its importance in reducing the impact of earthquakes. What steps can individuals and communities take to enhance earthquake resilience?

