



Mountains, Volcanoes & Earthquakes

Gold

These Gold questions require explaining tectonic processes with genuine geographical reasoning.

Name: _____ Date: _____

Section A: Tectonic Reasoning

1. Explain how the movement of tectonic plates causes both earthquakes and volcanoes.

2. Compare how fold mountains and volcanic mountains are formed differently.

3. Explain why the "Ring of Fire" around the Pacific Ocean has so many earthquakes and volcanoes.

4. Why might a mountain range continue to grow taller over millions of years?

5. Explain why earthquakes can cause more damage in some countries than others, even at the same strength.

Section B: Human Impact & Evaluation

1. Evaluate the benefits and risks of living near an active volcano.

2. Explain how buildings in earthquake zones are designed differently to reduce damage.

3. Why might scientists find it difficult to accurately predict exactly when an earthquake will happen?

4. Explain the long-term environmental effects a large volcanic eruption can have, beyond the immediate area.

5. Evaluate why understanding tectonic activity is important for city planning in at-risk regions.

