

Names: _____ Period: _____



| Notable Volcanoes | | | |
|------------------------------|-------------------------|-----------------------------|---------------------------|
| Kilauea, Hawaii | Merapi, Indonesia | Krakatau, Indonesia | Santorini, Greece |
| Mount St. Helens, Washington | Pelee, Martinique | Etna, Italy | Ruapehu, New Zealand |
| Vesuvius, Italy | Arenal, Costa Rica | Santa Maria, Guatemala | Agung, Indonesia |
| Fuji, Japan | Stromboli, Italy | Nyiragongo, Congo | Mayon, Philippines |
| Sakurajima, Japan | Mauna Loa, Hawaii | El Chichon, Mexico | Ruiz, Colombia |
| Popocatepetl, Mexico | Katmai, Alaska | Hekla, Iceland | Taal, Philippines |
| Colima, Mexico | Lassen Peak, California | Yellowstone, Wyoming | White Island, New Zealand |
| Rabual, Papua New Guinea | Long Valley, California | Lamington, Papua New Guinea | Paricutin, Mexico |

| Notable Earthquakes | | | | |
|--------------------------------|------|-----------|----------|-----------|
| Location | Date | Magnitude | Latitude | Longitude |
| Chile | 1960 | 9.5 | -38.2 | -73.1 |
| Price Williams Sound, Alaska | 1964 | 9.2 | 61.0 | -147.7 |
| Off northwest coast of Sumatra | 2004 | 9 | 3.3 | 95.8 |
| Kamchatka | 1952 | 9 | 52.8 | 160.1 |
| Off coast of Ecuador | 1906 | 8.8 | 1.0 | -81.5 |
| North Sumatra, Indonesia | 2005 | 8.7 | 2.0 | 97.0 |
| Rat Island, Alaska | 1965 | 8.7 | 51.2 | 178.5 |
| Andrean of Islands, Alaska | 1957 | 8.6 | 51.6 | -175.4 |
| Assam, Tibet | 1950 | 8.6 | 28.5 | 96.5 |
| Kuril Islands | 1963 | 8.5 | 44.9 | 149.6 |
| Banda Sea, Indonesia | 1938 | 8.5 | -5.1 | 131.6 |
| Kamchatka | 1923 | 8.5 | 54.0 | 161.0 |

1. Explain the relationship between the distribution of volcanoes and earthquakes, if any.
2. Explain the relationship between the distribution of volcanoes and earthquakes, and any geographical features, if any.
3. Explain the relationship of the distribution of current earthquakes with ones from the past.

4. Generate one or more hypotheses about the occurrences of earthquakes or volcanoes, or both, on the basis of the information.

5. Perform an Internet search for a map showing tectonic plate boundaries. Is there any correlation between the location of earthquakes and volcanoes, and plate boundaries? If so, explain.