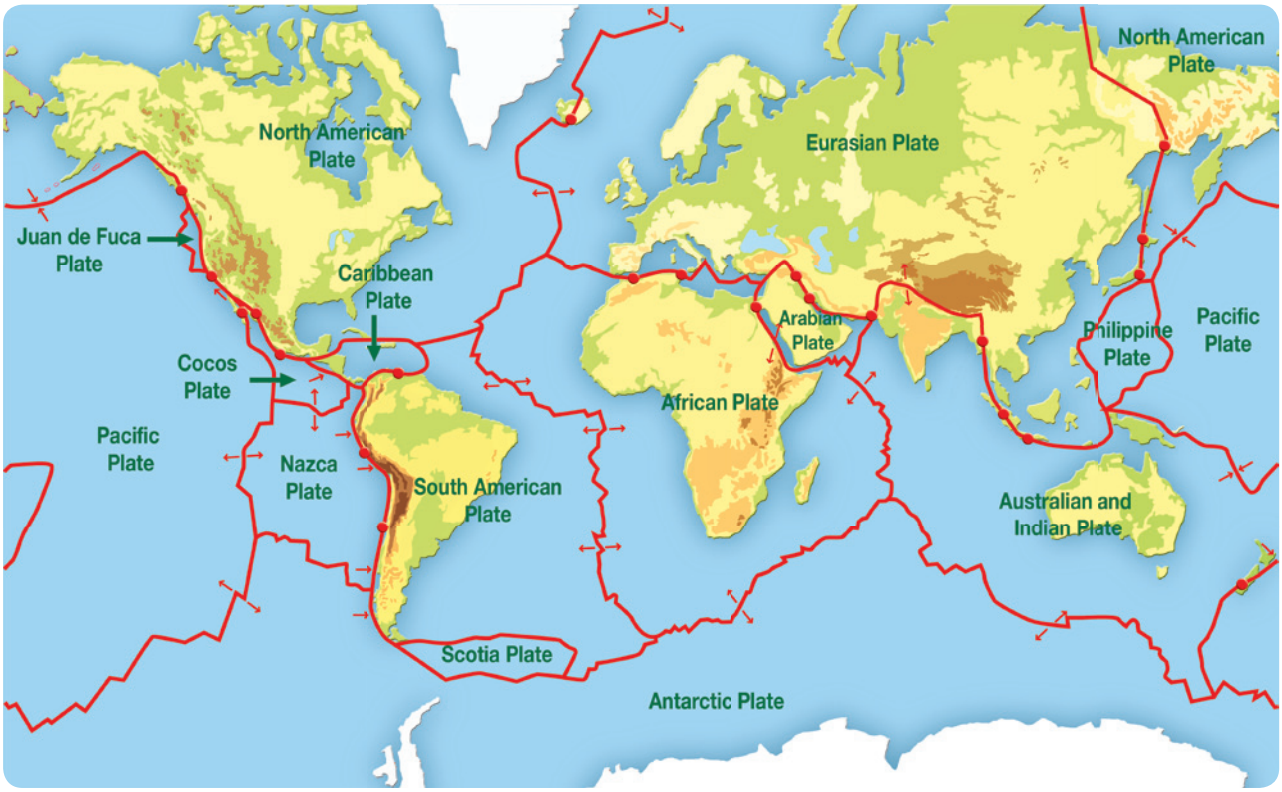
Extension Worksheet 1

Name: _____ Class: _____ Date: _____

1. Look at the image and answer the questions.



a. What are the effects of the movement of tectonic plates?

_____

_____

b. What does it mean if an area is described as seismic?

_____

_____

c. Which countries are on the Ring of Fire?

_____

_____

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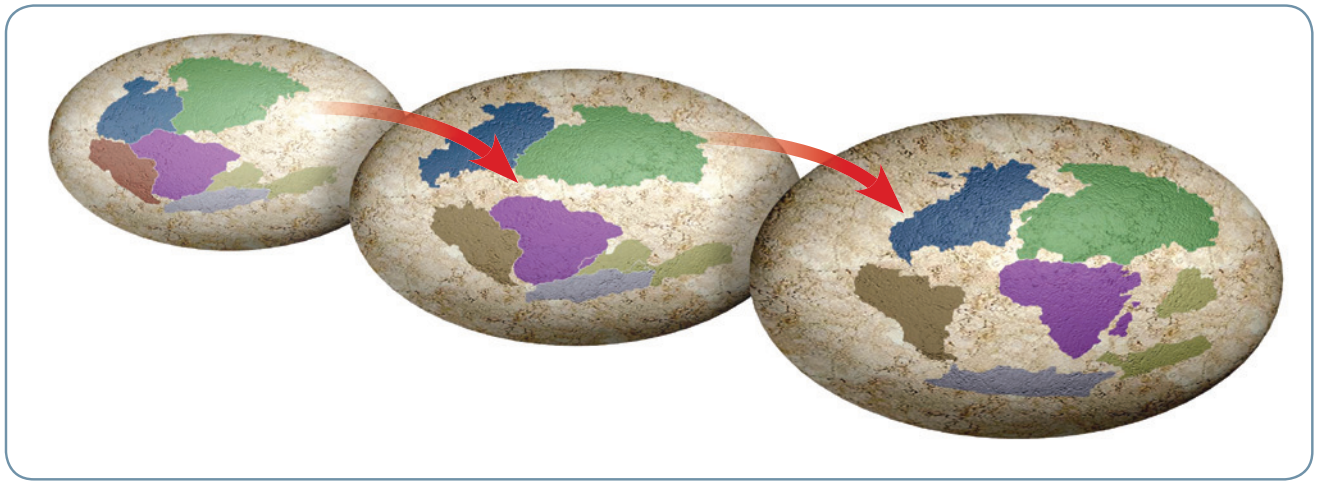
2. Research and describe the effects of the 2010 eruptions of the Eyjafjallajökull volcano in Iceland.

3. Research and write an emergency procedure for an earthquake.

4. What was Pangaea? Look, research and explain.



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Extension Worksheet 2

Name: _____ Class: _____ Date: _____

1. Study the table and answer the questions.

	Chile, 1960	Japan, 2011
Epicenter	Located in the ocean, 130 to 180 km from Valdivia	Located 70 km off the Pacific coast of Tohoku
Depth	60 km	30 km
Magnitude	9.6 on the Richter scale	9.0 on the Richter scale
Characteristics	• Killed around 5,000 people • The biggest earthquake ever recorded • Generated a tsunami with waves nearly 25 meters high	• Killed almost 16,000 people and resulted in the evacuation of over 200,000 people • The most powerful earthquake ever to hit Japan • Generated a tsunami with waves that reached up to 40 meters

a. Why did these earthquakes generate tsunamis?

_____

_____

b. The sizes of the earthquakes were similar. Did they have the same effects?

_____

_____

c. What can you infer about the energy released by these earthquakes?

_____

_____

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2. Create three diagrams below to explain the movements of tectonic plates.

3. Why is it important for some countries to practice regular earthquake drills?

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