

Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_

## Earth Processes#2-Geographical Occurrences

Geographical occurrences happen every day around the world, continually shaping our Earth above and below sea level.

You will be researching a few famous landforms, a noteworthy earthquake and a cool hotspot. A few links have been included to guide your research but if you find others that you feel others can benefit from, please share.

A great website to start with is the USGS website for real-time information of earthquakes throughout the world. It may help to answer the three questions below before you continue your research.

<http://earthquake.usgs.gov/>

What does the magnitude of an earthquake mean?

How is the magnitude of an earthquake measured?

What magnitude would be the smallest felt by humans?

**The Marianas Trench:** <http://www.livescience.com/23387-mariana-trench.html>

What title does the Marianas Trench hold?

What two plates were involved in the creation of the Marianas Trench?

What type of plate boundary has created the Marianas Trench?

How was it created?

If Mt. Everest was placed in the Marianas Trench would it stick out or be covered with water? Why?

**San Andreas Fault:** <http://www.livescience.com/45294-san-andreas-fault.html>

Where is the San Andreas Fault located in the world?

What two plates are involved in the creation of the San Andreas Fault?

Are they continental or oceanic crustal plates?

What geological occurrences happen at this type of boundary?

How many earthquakes have occurred in the last 48 hours on the San Andreas fault?

**Iceland:** <http://www.livescience.com/8129-iceland-form.html>

Where is Iceland located (Where in the world would I find this place)?

What type of plate boundary has created Iceland? \_\_\_\_\_

Name the two plates forming the boundary in Iceland and identify the plates as continental or oceanic crustal plates.

How big is the country of Iceland getting each year? \_\_\_\_\_

What geological occurrences are caused by this type of boundary?

How many earthquakes have occurred on Iceland in the last 48 hours. \_\_\_\_\_

**Japan:** <http://www.livescience.com/39110-japan-2011-earthquake-tsunami-facts.html>

What was the magnitude of the earthquake that hit near Japan on March 11<sup>th</sup>? \_\_\_\_\_

What type of plate boundary caused this damaging Earthquake? \_\_\_\_\_

What two plates were involved?

Why did a Tsunami hit Japan?

**Check out the Amazing facts at the bottom of the article.**