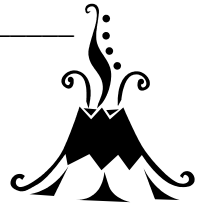


Name: _____ Date: _____ Hour: _____
Earth Science



VOLCANO WEBQUEST

Using the internet, find the information required to complete this web quest.
Some useful websites:

<http://www.volcanolive.com/>
<http://pubs.usgs.gov/gip/volc/types.html>

OBJECTIVE #1 – VOCABULARY: Define the following.

<https://volcanoes.usgs.gov/vsc/glossary/>

<u>volcano</u>
<u>lava</u>
<u>magma</u>
<u>crater</u>
<u>hot spot</u>
<u>silica</u>
<u>pyroclastic flow</u>
<u>active volcano</u>
<u>extinct volcano</u>
<u>dormant volcano</u>
<u>Aa</u>
<u>Pahoehoe</u>

OBJECTIVE #2: Provide FULL answers to the following questions.

<https://www.nationalgeographic.org/encyclopedia/volcano/>

1. In general, how do volcanoes form?
2. Describe how volcanoes form at divergent boundaries.
3. Describe how volcanoes form at convergent boundaries.
4. What is an island arc? Give at least two examples of major island arcs.
5. How did the Hawaiian Islands form?
6. How is Yellowstone different than the other volcanoes in the table above? Is it located on a hot spot or a boundary? Is it expected to erupt again soon?
7. What causes a volcano to erupt?

OBJECTIVE #3: CURRENT EVENT:

8. What is the name of the major volcano that erupted in 2010? Where is this volcano located?
9. What type of volcano is it?
10. Was the eruption silent or explosive?
11. What types of problems did this volcano cause across the world?

OBJECTIVE #3 –EARTH'S VOLCANOES: Make a list of the top 10 **LARGEST** volcanic eruptions around the world. Fill in the information of each one in the chart below. Use the following website as a reference: <http://www.volcanolive.com/large.html>

Name of Volcano	Country/Location	Type of Volcano	Year of Last Eruption	Active, Dormant, or Extinct

OBJECTIVE #4: THE RING OF FIRE: Locate the above volcanoes on the blank map below. Use a world map to determine these locations.



Questions:

1. What do you notice about the placement of these volcanoes in relation to the plate boundaries?
2. How do volcanoes relate to plate tectonics and earthquakes?
3. What is the “Ring of Fire”?
4. How many active volcanoes are there currently?

OBJECTIVE #5: VOLCANO STRUCTURE: Draw and label the following structures in the space below: *crust, lava, magma chamber, side vent, ash cloud, conduit (pipe), vent*

OBJECTIVE #6– TYPES OF VOLCANOES: Use the internet and search for the 3 main types of volcanoes and fill in the table below.

Type of Volcano			
How they form			
Type of eruption (explosive, quiet, etc.) and lava			
Physical description			
Sketch (drawing)			