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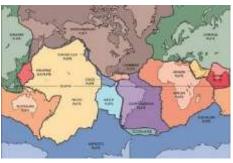
Plate Tectonics, Volcano and Earthquake Webquest

Objective: Learn and explore the ins and outs of Plate Tectonics, Volcanoes, and Earthquakes.

<u>Instructions:</u> Go to each of the websites indicated below. Answer the questions or complete the requested responses about each of those sites. Make sure your explanations to the answers as complete as possible.

Plate Tectonics

- 1. What are Plate Tectonics? http://www.livescience.com/37706-what-is-plate-tectonics.html
 - a. Read the follow article and use the space below to define and describe Plate Tectonics.



- b. Who proposed the idea of plate tectonics/continental drift?
- c. What are the <u>driving forces</u> behind plate tectonics? Explain in detail.
- 2. Use the following website to describe each of these topics. Click on the picture to see them. Use the space to describe each. http://earthguide.ucsd.edu/eoc/teachers/t_tectonics/t_tectonics.html
 - a. Earth's Internal Convection
 - b. Seafloor Spreading (key process #1)
 - c. Subduction (key process #2)

Earthquakes

	What is an Earthquake? http://eschooltoday.com/natural-disasters/earthquakes/what-is-an-earthquake.html
	Read the follow website and use the space below to define and describe what an earthquake is.
b	Click "Next" and describe the following: i. Under Faults describe Hypocenter:
	ii. Under Faults describe Epicenter:
	iii. Seismograph:
	iv. Richter Scale:
	v. Ring of Fire:
C.	Click "Next". Fill in the gaps to learn how Earthquakes form . i. Earthquakes develop in the of the earth. The inner part of the earth contains massive Some of this energy escapes through and other volcanic activity, but the bulk of it is within the earth's inner
	part, contained in the crust. ii. The earth's outer crust is held in place like a completed, with rough edges and lines. The energy stored here causes the pieces to slide, glide, knock and move around each piece. These pieces best describe what we call ''. iii. After a period of time, the built up energy and movement causes huge in the plates, and there is massive on the fault lines. This intense pressure resulting from energy build up causes the fault lines give way, and plates move over, against or apart from each other.
	iv. There is an at this point. In the form of (like water ripples) the escaping energy radiates from the fault in all directions. The seismic waves shake the earth as they through it. When the waves reach the earth's surface, they shake the and anything on it, tearing down houses and structures.

d.	Click "Next. What are the types of earthquakes? i. Draw and describe each in the boxes below.
	i. Draw and describe each in the boxes below.
e.	Earthquake Waves: What are the two types of Seismic Waves? Draw and describe each.
	P-Waves (Primary Waves) S-Waves (Secondary Waves)
r	Clial (Mart) Describe a Terranai
f.	Click "Next". Describe a Tsunami .
g.	Click "Next". Describe how we can prepare for an earthquake.
J	
	<u>noes</u>
	/hat is a Volcano? http://eschooltoday.com/volcanoes/what-is-a-volcano.html
a.	Read the follow website and use the space below to define and describe what a volcano is.
h.	Where do volcanoes occur?
c.	Click "Next". Describe Why Volcanoes Erupt?

Shield Volcano	Lava Domes
Cinder Cone Volcano	Composite
e. One the left side click "Inside a volcano". Briefly of Magma Chamber:	describe the meaning of each
Crater: Main vent: Secondary vent: Ashes, clouds and cinders:	Ashes, gases and cinders Crater Vent Lava flow layers of ashes and lava Secondary vent Magne shapes
Layers of ash and lava:	Magma chamber Rock layers in earth crust @eschooltoday.com
f. Click "Next". The effects of volcanic Eruptions. De Negative Effects	escribe 3 of each. Positive Effects
1.	1.
2.	2.
3.	3.

d. Click "Next" Using the following boxes draw and describe the **Common Types of Volcanoes**.

What are they?	Where do they occur?	Examples:
tly, go to the following webs	ite: http://www.bbc.co.uk/science/earth/	
	uakes titles and watch some of the clips of	
planation of each.		

g. Volcanic Hot Spots http://www.kidsgeo.com/geology-for-kids/0048-volcanic-hot-spots.php Use the