***Mining the Web***



Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Site #1: Rock Hounds**

[**http://web.archive.org/web/20150710054204/http://learn.fi.edu/fellows/fellow1/rocks/index2.html**](http://web.archive.org/web/20150710054204/http:/learn.fi.edu/fellows/fellow1/rocks/index2.html)

1. Explore the **Rock Creations area** on the website to complete each section.

For thousands, even millions of years, little pieces of our earth have been eroded--broken down

and worn away by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. These little bits of our

earth are washed downstream where they settle to the bottom of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_,

\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_. Layer after layer of \_\_\_\_\_\_\_\_\_\_\_\_\_ earth is deposited on

top of each. These layers are pressed down more and more through time, until the bottom layers

slowly turn into \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Igneous rocks are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rocks and are formed either underground or

above ground. Underground, they are formed when the melted rock, called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

deep within the earth becomes trapped in small pockets. As these pockets of magma cool

\_\_\_\_\_\_\_\_\_\_\_\_\_ underground, the magma becomes igneous rocks. Igneous rocks are also formed

when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ erupt, causing the magma to rise above the earth's surface. When

magma appears above the earth, it is called \_\_\_\_\_\_\_\_\_\_. Igneous rocks are formed as the lava

cools above ground.

Metamorphic rocks are rocks that have "\_\_\_\_\_\_\_\_\_\_\_\_" into another kind of rock. These

rocks were once \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rocks. How do sedimentary and igneous

rocks change? The rocks are under tons and tons of \_\_\_\_\_\_\_\_\_\_\_\_\_\_, which fosters \_\_\_\_\_\_\_\_\_

build up, and this causes them to change. If you examine metamorphic rock samples closely,

you'll discover how flattened some of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the rock are.

**2.Explore Discovering Earth’s Treasures area** on the same site to classify each rock. Use I for igneous, S for sedimentary, and M for metamorphic.

\_\_\_\_\_\_\_\_ Conglomerate \_\_\_\_\_\_\_\_ Gneiss \_\_\_\_\_\_\_\_ Granite \_\_\_\_\_\_\_\_ Gypsum

\_\_\_\_\_\_\_\_ Limestone \_\_\_\_\_\_\_\_Obsidian \_\_\_\_\_\_\_\_ Pumice \_\_\_\_\_\_\_\_ Sandstone

\_\_\_\_\_\_\_\_ Schist \_\_\_\_\_\_\_\_ Scoria \_\_\_\_\_\_\_\_ Shale

3. Try the **Rock Hound Quiz**. How did you do? ☺ ☹

**Site #2: Rock Cycle** [**http://www.rocksandminerals.com/rockcycle.htm**](http://www.rocksandminerals.com/rockcycle.htm)

1.What are rocks made of? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.What are the four layers of the Earth?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.If you were to use an apple to represent the Earth, what would each part be?

The peel represents the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The white part of the apple would be the

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The core of the apple represents the \_\_\_\_\_\_\_\_\_\_\_ of the Earth.

**Site #3: State Symbols:**

[**http://www.minsocam.org/MSA/collectors\_corner/offmin.htm**](http://www.minsocam.org/MSA/collectors_corner/offmin.htm)

1.What is our state mineral? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.Which mineral is the most popular? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Done?**

**1 - Return to the Rock Hounds site and try the Puzzling Pebbles activities.**

**2 – Go to** [**http://www.mineralogy4kids.org**](http://www.mineralogy4kids.org) **website and choose Games.**

**3- Go to** [**http://www.kidsgeo.com/geology-games/rocks-game.php**](http://www.kidsgeo.com/geology-games/rocks-game.php) **and play the game.**

**Teacher use only:** Activity sheet is found at <http://sciencespot.net/Media/miningweb.pdf>