

Mining the Web

Name _____

Site #1: [Rock Hounds](#) -

<http://web.archive.org/web/20150710054204/http://learn.fi.edu/fellows/fellow1/rocks/index2.html>

1. Explore the Rock Creations area 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. Sedimentary and igneous rocks change as they 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 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: [State Symbols: Geology - 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? _____ How many states have adopted it? _____
3. How many states do not have “geosymbols”? _____

Challenge: Identify each state by its “rocky” nickname. (Use a search engine for this one!)

The Gem State _____ The Diamond State _____

The Granite State _____ The Silver State _____

The Golden State _____ The Copper State _____

Done?

1 - Return to the [Rock Hounds](#) site (page 1) and try the Puzzling Pebbles activities.

2 – Go to [Mineralogy 4 Kids](https://min4kids.org/) at <https://min4kids.org/> and choose Games.