



Mining the Web

Name _____

The sites listed below are available on the Rocks & Minerals page of the Kid Zone at <http://sciencespot.net/>.

Site #1: Rock Hounds

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. 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 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

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: Geology

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. (You will need to 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 and try the Puzzling Pebbles activities.

2 - Go to the Mineralogy 4 Kids website and choose Games.