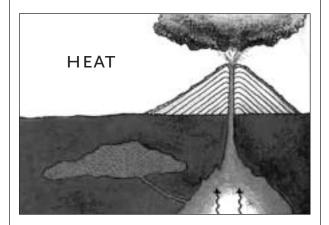
Rocks are very different from each other, depending on how they were formed and what has happened to them since. Scientists use three different categories for rocks.

IGNEOUS



Formed from minerals melted deep in the earth and cooled into rock.

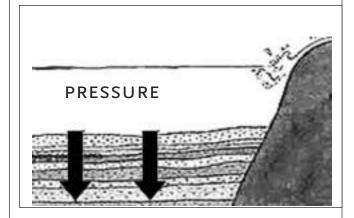
Possible Clues:

- Hard
- · Large crystals if cooled slowly
- Holes formed if the rock cooled quickly above or near the earth's surface

Examples:

- Granite Formed deep underground. Has large crystals of Potassium feldspar (pink) and Quartz (clear). Very hard.
- Basalt Dark rock with some lighter minerals and sometimes iron. Can see holes where air was trapped as the rock cooled quickly. Small crystals.

SEDIMENTARY



Formed as sand, mud, and other materials are pressed down and harden over time into rock.

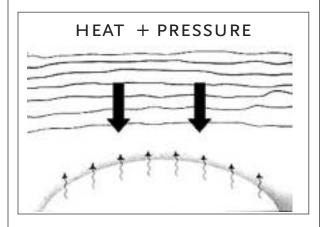
Possible Clues:

- · Can see grains, like sand
- Softer
- Layers
- Fossils

Examples:

- Sandstone Formed from layers of sand.
 Can often see individual grains.
- **2. Limestone** medium grain size; often white or gray. Can be soft, like chalk.

METAMORPHIC



Formed when igneous or sedimentary rocks are changed by heat or pressure.

Possible Clues:

- Some crystals, small medium, different sizes.
- · Layers, may be wavy or broken.
- Easy flaking of layers.

Examples:

- Marble Metamorphosized limestone.
 Small to medium crystals. Softer rock, but does not flake.
- 2. Schist Mix of smoky Quartz (clear, grayish crystals) between layers of Mica (black). Different size crystals.
- Slate Grains are very small and the same color.Does not have crystals. Can see layers.

Choose three rocks that interest you. schist, or slate. Use the reverse side of	Complete the chart below and decide withis sheet to help you.	whether you think the rock is granite, so	andstone, basalt, limestone, marble,
Think About	Rock 1	Rock 2	Rock 3
Minerals · How many different colored minerals do you see? · What colors?			_
Layers Do you see any layers or stripes in the rock? Are they straight or wavy?			
Crystals Can you see any crystals? Are they large or small?			
Texture and Feel · How hard are the minerals in the rock? · Do grains come off? · Does it flake easily?			
What else do you notice?			
What kind of rock do you think this is?			

Name: ___