

BM-Discriminate between steps in the rock cycle , types of rocks formed , and consequent changes to the Earth's surface.

**Metamorphic Rock Lab**  
**!E. Rock that Changes Form!**  
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**Framing the Investigation**

What do you call it when a caterpillar changes into a beautiful butterfly or Bill Bixbee into the Incredible Hulk or mud into slate?

Hypothesis: \_\_\_\_\_

In this lab you are going to investigate rocks that have changed form, the third leg of the rock cycle.

**Design the Investigation**

1. Get a metamorphic rock sample, ONLY ONE SAMPLE, and take it to your desk to examine it.
2. Observe its characteristics and properties.
3. Identify your metamorphic rock sample using chart & data table below.
4. Record specimen number on data table below.
5. Return rock sample and choose another and repeat above steps until lab is complete.
6. Clean up.

**Collecting & Presenting Data**

Identify the metamorphic rocks below and put their number on the data table in the appropriate location.

Texture	Dull, Flat, Dark, Smooth	Can't See Crystals	Slate _____
Foliated Rock (Banding)	Wave like Foliation	Crystals Mica & Muscovite Quartz	Gneiss _____
	Very intense layers	Mica Muscovite Very much Changed and Metamorphed	Schist _____
Non Foliated Rock	Soft Sugar like Crystals	Calcite Fizzes with Acid	Marble _____
	Very Hard Glass Like Texture	Almost like quartz but harder	Quartzite

**Analyzing and Interpreting Results**

1. Draw the rock cycle on the back of this lab and explain it.
2. What does metamorphic mean?(Word Meaning) \_\_\_\_\_
3. Where do metamorphic rocks form? \_\_\_\_\_ in the Earth
4. Why don't we find very many fossils in metamorphic rocks? The \_\_\_\_\_ destroys them.
5. Name the famous green super hero that goes through a metamorphosis: