Rock Characteristics		
Rock Type	Formed by	Some Identifying Characteristics
Igneous	Cooling of Magma (Intrusive Igneous—form INside Earth's interior) (Extrusive Igneous—form ON TOP or near the Earth's surface)	Surface can be smooth as glass May have no minerals/few minerals Can be holey (have holes) or porous Individual crystals can be large enough to be seen by human eye If crystals are visible, they often appear to interlock, like pieces of a puzzle May be darker in color
Sedimentary	Tiny rock pieces cementing together	Can contain fossils Can sometimes see or feel individual sediments such as sand or pebbles Can be more crumbly than other rock types May have "earthy color"
Metamorphic	High Heat and/or pressure of earth	Often may see bands (**foliation**), like rock was pressed together Foliation (bands) of minerals may be same or different colors Crystals may be very small and hard to see Granular (small grains)/translucent (allows some light)

Crystal Size

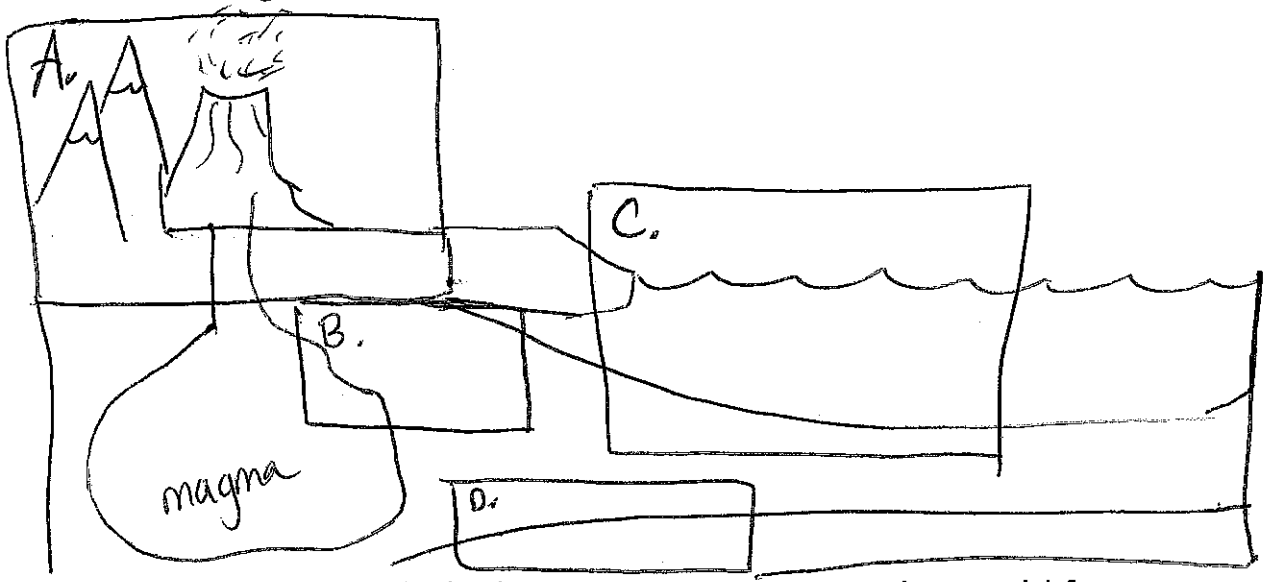
- Large
- Small

Data Analysis

1) Do all rocks of the same type look the same? Support your answer with evidence from your observations.
2) What characteristic was most useful in identifying **EACH** type of rock listed below? Explain.
    a. Extrusive Igneous Rocks
    b. Intrusive Igneous Rocks
    c. Sedimentary
    d. Metamorphic

3) Imagine having to identify another rock. Which of the following facts would be the most helpful to you? Explain your reasoning.
    1. The rock is light and gray in color.
    2. The rock is shiny.
    3. The rock was found high on the slope of an extinct volcano.
    4. The rock is small enough to fit in a kid's hand.

4) Draw the same diagram as seen below in your notebook. Complete the steps below.



    a. In your diagram, label where SEDIMENTARY rocks would form.
    b. In your diagram, label where METAMORPHIC rocks would form.
    c. In your diagram, label where IGNEOUS rocks would form (hint two places).
    d. With your IGNEOUS rocks—label where EXTRUSIVE igneous rocks would form and where INSTRUSIVE igneous rocks would form.