Directions: Extended multiple choice. Use the diagram as you answer the following questions.

1-2) An igneous rock cannot
   a) erode to form sediments
   b) melt into magma
   c) become metamorphic rock through heat and pressure
   d) cool into magma

Explain ____________________________________________

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________

3-4) An inference is a decision made from observation. Anna finds two interesting rocks while collecting in a creekbed. One is round and smooth and the other is flat and smooth. Which of the following could she infer from her observation?
   a) both rocks are igneous rocks
   b) both rocks were made smooth through erosion
   c) the flat rock is not as hard as the round rock
   d) the round rock is more likely to contain fossils

Explain ________________________________________________

_________________________________________________________________

Directions: Short Answer.

5-6) Explain how to measure the volume of a rock using water.
Directions: Short answer. Use the diagram as you answer the following question.

7-8) Using an assortment of weights, tell what you would need to do to find the weight of the rock on the scale.

_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

Directions: Extended response. Use the diagram as you answer the following questions.

9-10) Robbie Rock begins as a metamorphic rock and over time becomes a sedimentary rock. Explain two ways this is possible.

First way: ________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

Second way: ________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

metamorphose (heat and pressure)