**8th Grade Science Homework Menu Week #8**

Directions: You are to perform the following tasks on SEPARATE SHEETS OF PAPER and submit on Friday, November 21st. Each task is worth a specific amount of points. You NEED TO COMPLETE 20 POINTS worth of Homework to receive full credit.

1. Define the following terms: (**5 Points)**

a. rock

 b. rock cycle

 c. erosion

 d. deposition

 e. absolute dating

 f. relative dating

 g. half life

2. Make a poster that illustrates the rock cycle. Cut out pictures from magazines of the different types of rock and processes in the rock cycle.  **(10 points)**

3. Answer the following questions about the Rock Cycle: **(5 points)**

**a.** Describe how an igneous rock can turn into magma.

**b.** How can sediment turn into magma?

**c.** How can metamorphic rock turn into sediment?

**d.** An igneous rock turns into sediment, into a sedimentary rock, and then into a metamorphic rock. Describe how this process occurs.

**e.** How can the rock above turn back into an igneous rock?

4. Write a letter to Charles Lyell or James Hutton. The letter should explain why you agree or disagree with the scientist’s theories. Write at least one question at the end of the letter that you would like to ask the scientist. **(5 Points)**

5. Create a rock puzzle with at least 5 layers. Include an intrusion and a fault in your illustration and then order the layers of rock from oldest to youngest. **(5 Points)**