**8th grade Chemical Change and Physical Change Homework 5/4/17**

You may answer these questions in your notebook or on a separate sheet of paper. They are due on Friday 5/5.

1. What is the difference between a physical change and a chemical change?
2. What four things can change the rate at which a chemical reaction takes place?
3. List the signs that a chemical change has occurred.
4. What is the law of conservation of mass?
5. What part of an atom is involved in bonding?
6. Draw an atom and label all of the parts.
7. How do the properties of compounds relate to the properties of the elements that make them up?
8. How many atoms of each element are represented by the following chemical formula?
   1. C12H22O11
9. Describe how the atoms of the periodic table are arranged.
10. Describe what a chemical reaction is.
11. What is the difference between an endothermic and an exothermic reaction?
12. Describe what happens to the mass of substances involved in a chemical reaction as the reaction continues.