Chemistry Worksheet (Chapter 9; section 9-2)

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: September 16, 2014

(Write all answers on your own paper)

**Objectives:** classify chemical reactions. Identify the characteristics of different classes of chemical reactions.

1. Why do chemist classify chemical reactions?\_\_\_\_\_\_\_\_\_\_\_? (page 289)
2. Why is it important to know categories of chemical reactions? (page 289)
3. What are the four types of chemical reactions? (page 289)
4. Describe a synthesis reaction using the symbols A & B. (page 289)
5. Describe a synthesis reaction using the compounds CaO and H2O. (page 289)
6. Describe a synthesis reaction using the compounds Na and Cl. (page 289)
7. Draw figure 9.7 on page 289 and explain.
8. Describe a combustion reaction (page 290)
9. Describe a combustion reaction using the compounds CH4 and 2O2. (page 291)
10. Describe a decomposition reaction using the symbols A & B. (page 292)
11. What type of energy source does a decomposition reaction require? (page 292)
12. Describe a single displacement reaction using the symbols A, X & B. (page 293)
13. Describe a double-displacement reaction using the symbols A, B, X & Y. (page 296)
14. Write the generic equations for the 6 types of chemical reactions. See table 9.4 on page 298.
15. Answer question 29 on page 298.