

## **CHAPTER 9 ACCELERATED CHEMISTRY REVIEW SHEET**

### **CHEMICAL REACTIONS**

*The test contains 30 total questions – 21 multiple choice, 3 fill in the blank, and 6 short answer. You should study the following review sheet, your previous quiz, book problems, and practice quizzes and worksheets. Tests are weighted at 60% of your grade so be sure to prepare properly.*

**For the test you should be able to:**

- 1. Identify the five types of chemical reactions**
  - a. Synthesis**
  - b. Combustion**
  - c. Decomposition**
  - d. Double Replacement**
    - i. Precipitates**
    - ii. Gas**
    - iii. Liquid**
  - e. Single Replacement**
    - i. Metal replaces a metal**
    - ii. Non metal replaces a non metal**
    - iii. Single replacement of Hydrogen in water**
- 2. Write and Balance chemical reactions**
- 3. Predict products for the following types**
  - a. Single Replacement**
  - b. Double Replacement**
  - c. Combustion**
  - d. Synthesis from elements**
- 4. Use your activity series to determine if a reaction occurs**
- 5. Use your solubility rules to determine an ionic compounds state of matter in water**
- 6. Describe the indicators that a chemical reaction takes place**
- 7. Identify reactants and products in a chemical reaction**
- 8. Identify spectator ions in a double replacement reaction**
- 9. Write net ionic equations for double replacement reactions**
- 10. Possible products in a double replacement reaction**
- 11. Describe a precipitate**
- 12. When a reaction does not occur in a double replacement reaction**
- 13. Know the 7 diatomic elements**
- 14. Know the states of matter of elements on the periodic table**