Chemistry Worksheet (Chapter 9; section-1)

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: September 15, 2014

(Write all answers on your own paper)

**Objectives:** Recognize evidence of a chemical change. Balance chemical equations.

1. What do the foods you eat, the fibers in your clothes, and the plastics in you CDs have in common?\_\_\_\_\_\_\_\_\_\_\_ (page 282)
2. Describe what happen before and after a forest fire. (page 280)
3. How can you tell when a chemical reaction has taken place? (page 282)
4. List several indicators of a chemical change. (page 283)
5. What do the symbols used in chemical equations mean? (see table 9.1, page 283)
6. What is a word equation? Give an example of a word equation. (page 284)
7. What is a skeleton equation? Give an example of a skeleton equation. (page 284)
8. Chemical equations must show that matter is conserved during a chemical reaction. Why do skeleton equations lack this information? (page 285)
9. In your own words, describe balance equations. (page 285)
10. What are coefficients and what are they used for? (page 285)

Count the number of atoms on each side of the equations and place √’s and X’s. Balance the equations (using coefficients).

11. \_\_\_\_ Na3PO4 + \_\_\_\_ KOH 🡪 \_\_\_\_ NaOH + \_\_\_\_ K3PO4

12. \_\_\_\_ MgF2 + \_\_\_\_ Li2CO3 🡪 \_\_\_\_ MgCO3 + \_\_\_\_ LiF

13. \_\_\_\_ P4 + \_\_\_\_ O2 🡪 \_\_\_\_ P2O3

14. \_\_\_\_ RbNO3 + \_\_\_\_ BeF2 🡪 \_\_\_\_ Be(NO3)2 + \_\_\_\_ RbF

15. \_\_\_\_ AgNO3 + \_\_\_\_ Cu 🡪 \_\_\_\_ Cu(NO3)2 + \_\_\_\_ Ag