**Balancing Chemical Equations Practice Webquest**

Part 1:

Go to the following site and complete the activity. You will need to type in the coefficient of “1.” After each equation you balance click “balanced” and a statement will appear that will allow you to complete the questions below.

<http://funbasedlearning.com/chemistry/chemBalancer/ques2.htm>

1. Why is iron’s symbol “Fe” on the periodic table? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What is the name of stomach acid? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. What color does magnesium metal burn? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Why is helium used to fly blimps instead of hydrogen? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. What poisonous metal can be absorbed through the skin? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. What happens when you drop calcium metal in water? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Name the 2 relatives of methane. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. What is H2O2? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. What does the “Harber process” produce? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. How is aluminum rusting different than iron rusting? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. What is released when potassium permanganate decomposes? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part 2:

Now go to the following site and work through the site practicing balancing equations. Again you will need to type in the coefficient of “1.” Start off with the Introduction and then go to the game.

<https://phet.colorado.edu/sims/html/balancing-chemical-equations/latest/balancing-chemical-equations_en.html>

Part 3:

Now go to this website and work on balancing the equations. Read the directions (due to the program you will need to include coefficients of “1”, unlike when we balance normally in class). You can complete a problem and go to the bottom of the page and click “check” whenever you’d like. Use the back button to continue working.

<http://www.sciencegeek.net/Chemistry/taters/EquationBalancing.htm>