**Chemistry: Chapter 7 Study Questions**

1. What are some observations we could make that would indicate a chemical reaction has occurred?

2. When a strong chemical bond is formed, how much energy is released?

3. What happens to atoms during a chemical reaction?

4. What must happen between particles for a chemical reaction to occur?

5. State the difference between a coefficient and a subscript.

6. What law are we conforming to when we balance a chemical equation?

7. What is the difference between exothermic and endothermic chemical reactions?
   
   a. Which has $+\Delta H$ values?
   
   b. Which has $-\Delta H$ values?

8. What do the coefficients of a balanced chemical reaction tell us?

9. How do “real-life” chemical reactions differ from an ideal, balanced chemical equation?

10. What is the difference between a synthesis reaction and a decomposition reaction?

11. Define single-displacement reaction and double-displacement reaction.

12. What are spectator ions?

13. What is a net ionic equation?