Honors Physical Science Reaction Worksheet Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Label the following reactions and then balance them.

1. \_\_\_Mg + \_\_\_Fe2O3 🡪 \_\_\_Fe + \_\_\_MgO

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_Mg + \_\_\_O2 🡪 \_\_\_MgO

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_HBr +\_\_\_ Al(OH)3 🡪 \_\_\_AlBr3 + \_\_\_H2O

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_HCl + \_\_\_NaOH 🡪 \_\_\_NaCl + \_\_\_H2O

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_Cu + \_\_\_AgNO3 🡪\_\_\_CuNO3 + \_\_\_Ag

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the answers to the following questions with a partner.

6. What is the difference between an exothermic reaction and an endothermic reaction?

7. Give an example of an exothermic reaction.

8. Give an example of an endothermic reaction.

9. What happens to the total energy in a chemical reaction?

10. What happens to the total mass in a chemical reaction?

11. What types of factors do you think could affect the rate of a chemical reaction?