

**LAB: REACTION PREDICTION**

NAME \_\_\_\_\_ Period \_\_\_\_\_

Before performing the following experiments in the laboratory, predict the reaction that will take place, write a balanced equation for the reaction, and then go into the lab and observe if your prediction is accurate. GOGGLES AND APRONS MUST BE WORN.

- 1. Sodium (a very small piece) added to a 250 mL beaker half full of cold water. Protection from spattering is done with a glass plate over the beaker. USE CAUTION!**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

- 2. Calcium added to water.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

- 3. Sodium chloride plus silver nitrate.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

- 4. Silver nitrate plus calcium chloride.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

- 5. Barium chloride plus sodium sulfate.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

- 6. Barium chloride plus magnesium sulfate.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

**7. Lead (II) nitrate plus potassium iodide.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

**8. Ammonium chloride plus sodium hydroxide.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

**9. Sodium carbonate plus hydrochloric acid.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

**10. Zinc plus hydrochloric acid.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

**11. Zinc plus Copper (II) nitrate solution.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

**12. Magnesium ribbon burned.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_

**13. Your choice of any two of the above except sodium.**

Prediction \_\_\_\_\_ Reaction type \_\_\_\_\_

Equation \_\_\_\_\_

Observation \_\_\_\_\_