

NAME \_\_\_\_\_ DATE \_\_\_\_\_

# Reaction Prediction

## Practice Problems (Level 1)

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For each of the following:

- 1) Predict the type of reaction to be expected:
- 2) Write chemical formulas for the given reactants:
- 3) Finish the equation by writing the formulas of the predicted products:

1. potassium and iodine
2. water  $\xrightarrow{\text{electrolyzed}}$
3. zinc and lead (II) chloride
4. sodium nitrate and ammonium chloride
5. mercury and cadmium nitrate
- ~~6. manganese and sodium~~ *omit*
7. silver nitrate and hydrogen sulfide
8. potassium bromide  $\xrightarrow{\text{electrolyzed}}$
9. mercury (I) sulfide and ammonium nitrate
10. hydrogen and oxygen

NAME \_\_\_\_\_ DATE \_\_\_\_\_

# Reaction Prediction

## Practice Problems (Level 2)

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For each of the following:

- 1) Predict the type of reaction to be expected:
- 2) Write chemical formulas for the given reactants:
- 3) Finish the equation by writing the formulas of the predicted products:

1. tin and copper (II) sulfate
2. iron (III) nitrate and sodium chromate
3. calcium and iodine
4. magnesium and hydrochloric acid  
*HCl*
5. calcium oxide electrolyzed →
6. carbon and oxygen
7. sodium carbonate and sulfuric acid  
*H<sub>2</sub>SO<sub>4</sub>*
8. iron (II) sulfide electrolyzed →
9. platinum and lead (II) nitrate
10. lithium oxide and water