**Chemistry A**

**Equations**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Period\_\_\_\_\_\_\_\_\_**

Complete the word equation for the following chemical equations. Then, write the balanced chemical equation. Indicate the type of reaction on the line to the left of the equation. Classify each reaction as single displacement (SD), double displacement (DD), decomposition (D), or synthesis (S).

\_\_\_\_\_\_\_\_\_\_1. aluminum sulfate + calcium phosphate 🡪

\_\_\_\_\_\_\_\_\_\_2. magnesium chloride + silver nitrate 🡪

\_\_\_\_\_\_\_\_\_\_3. sodium chlorate 🡪

\_\_\_\_\_\_\_\_\_\_4. hydrogen gas + oxygen gas 🡪

\_\_\_\_\_\_\_\_\_\_5. zinc metal + copper(II) nitrate 🡪

\_\_\_\_\_\_\_\_\_\_6. sulfurous acid, H2SO3 🡪

\_\_\_\_\_\_\_\_\_\_7. copper(II) oxide + sulfuric acid, H2SO4 🡪

\_\_\_\_\_\_\_\_\_\_8. nitrogen gas + hydrogen gas 🡪

\_\_\_\_\_\_\_\_\_\_9. sodium iodide + chlorine gas 🡪

\_\_\_\_\_\_\_\_\_\_10. copper(II) hydroxide 🡪

\_\_\_\_\_\_\_\_\_\_11. ammonia gas, NH3 + hydrochloric acid, HCI 🡪

\_\_\_\_\_\_\_\_\_\_12. potassium metal + water 🡪

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Write balanced equations for the following word equations.

1. potassium chloride + silver nitrate 🡪

2. aluminum hydroxide + sodium nitrate 🡪

3. iron metal + copper(II) chloride 🡪

4. aluminum metal + copper(II) chloride 🡪

5. sodium chlorate 🡪

6. calcium carbonate 🡪

7. zinc metal + oxygen gas 🡪

8. chlorine gas + sodium metal 🡪

9. aluminum sulfate + barium chloride 🡪

10. beryllium fluoride + magnesium 🡪

11. sodium hydrogen carbonate, NaHCO3 🡪