

**Physical Science**  
**Writing Chemical Equations Worksheet #2**

Name \_\_\_\_\_

Date \_\_\_\_\_

Translate the following sentences into chemical equations. Be sure they are balanced!!

1. sodium reacts with water forming sodium hydroxide and hydrogen gas
2. phosphoric acid (hydrogen phosphate) reacts with magnesium hydroxide to form magnesium phosphate and water
3. barium chloride and sodium sulfate form sodium chloride and barium sulfate
4. magnesium hydroxide and ammonium phosphate form magnesium phosphate, nitrogen trihydride (ammonia) and water
5. iron(III) bromide and ammonium sulfide form iron(III) sulfide and ammonium bromide
6. cobalt(II) sulfate reacts with lead(II) nitrate forming cobalt(II) nitrate and lead(II) sulfate
7. lead(II) nitrate reacts with hydrochloric acid (hydrogen chloride) forming lead(II) chloride and hydrogen nitrate (nitric acid)
8. ammonium iodide reacts with lead(II) nitrate forming ammonium nitrate and lead(II) iodide
9. copper(II) sulfate reacts with barium chloride forming copper(II) chloride and barium sulfate
10. copper(II) sulfate reacts with potassium carbonate forming copper(II) carbonate and potassium sulfate