

## Worksheet: Writing Equations

Write equations for the following reactions:

- 1) The reaction of ammonia with iodine to form nitrogen triiodide ( $\text{NI}_3$ ) and hydrogen gas.
- 2) The combustion of propane ( $\text{C}_3\text{H}_8$ ).
- 3) The incomplete combustion of propane to form CO and water.
- 4) The reaction of nitric acid with potassium hydroxide.
- 5) The reaction of copper (II) oxide with hydrogen to form copper metal and water.
- 6) The reaction of iron metal with oxygen to form iron (III) oxide.
- 7) The complete combustion of 2,2-dimethylpropane ( $\text{C}_4\text{H}_{10}$ ) in oxygen.
- 8) The reaction of  $\text{AlBr}_3$  with  $\text{Mg}(\text{OH})_2$
- 9) The decomposition of hydrogen peroxide to form water and oxygen.
- 10) The reaction of ammonia with sulfuric acid.

Synthesis  
reaction  
creating  
ammonium  
sulfate.