



Date: _____

Neutralization Reactions Worksheet

1. Write the balanced chemical equations for the neutralization reactions between:

- a) hydrobromic acid and barium hydroxide $\rightarrow$ barium bromide + water
- b) zinc hydroxide and nitric acid $\rightarrow$ zinc nitrate + water
- c) aluminum hydroxide and hydrochloric acid $\rightarrow$ aluminum chloride + water

2. Give the name and the formula of the ionic compound produced by neutralization reactions between the following acids and bases:

Acid and Base reactants	Name of ionic compound
a) nitric acid and sodium hydroxide	sodium nitrate
b) hydroiodic acid and calcium hydroxide	calcium iodide
c) magnesium hydroxide and hydrosulfuric acid	magnesium sulfide
d) ammonium hydroxide and hydrofluoric acid	ammonium fluoride
e) barium hydroxide and sulfuric acid	barium sulfate
f) calcium hydroxide and carbonic acid	calcium carbonate

3. For each of the following ionic compounds, identify the acid and base that reacted to form them.

Salt	Acid	Base
a) Calcium Phosphate	Phosphoric acid	Calcium hydroxide
b) Zinc Fluoride	Hydrofluoric acid	Zinc hydroxide