	Name of compound										
	Formula										
	Total – charge										
	Total + charge										
	Number of anions										
	Number of cations										
Data Table	Combining Ions	Aluminum & Chloride	Sodium & Oxide	Iron(II) & Sulfide	Potassium & Sulfate	Silver & Nitrate	Copper(II) & Hydroxide	Ammonium & Carbonate	Copper(I) & Phosphate	Magnesium & Bromide	Calcium & Acetate

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Name: _

Combining Ions	Number of cations	Number of anions	Total + charge	Total – charge	Formula	Name of compound
Iron(III) & Oxide						
Copper(I) & Chromate						
Sodium & Bicarbonate						
Magnesium & Phosphate						
Potassium & Cyanide						
Aluminum & Sulfide						

## **Post-Lab Questions**

- 1. Examining the combining substances and formulas you wrote in your data table, develop a general procedure explaining how to write a formula for an ionic compound.
- 2. Using the procedure that you wrote in question #1, write the chemical formula for each of the following combining substances. (Hint: First look up the cation and the anion formulas from the Ion Formula Chart; then write the ionic formula.)

Combining Substances	Cation and Anion Formulas	Ionic Formula
a. lithium and dichromate		
b. strontium and bromate		
c. gallium and oxalate		
d. mercury(I) and chloride		
e. lead(II) and nitride		

3. Using the Ion Formula Chart, create three new ionic compounds that have not yet been used in this activity. List the names of the combining substances, the cation and anion formulas, and the ionic formula.

Combining Substances	Cation and Anion Formulas	Ionic Formula
a.		
b.		
c.		

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