WLHS / Chemistry / Monson	Name	Name	
·	Date	Per	

ACTIVITY: Chemical Names and Formulas of Ionic Compounds

This activity will allow you to describe the colors and textures of common ionic compounds and then write the chemical names and / or formulas of those compounds.

ACTIVITY – Writing Names and Formulas of Given Ionic Compounds

Observe the solid compounds below. Record the color, texture, and any other descriptive information in the box. Write out the individual ions (with charge) present in the compound, then write the correct chemical formula for the compound. Record all data in the table below.

Copper (II) oxide	Sodium chloride	Magnesium sulfate	Copper (II) sulfate
Copper (II) acetate	Cobalt (II) chloride	Copper (I) oxide	Ammonium chloride
Sodium carbonate	Lead (II) nitrate	Sodium acetate	Iron (III) oxide
Sodium phosphate	Calcium hydroxide	Nickel (II) chloride	Potassium bromide

Analysis Questions:

1) Write the symbols (with charges) and names of **ALL cations** found in the activity.

2) Write the symbols (with charges) and names of **ALL anions** found in the activity.

3) When is it appropriate to use Roman numerals in naming ionic compounds?

4) What does a numerical subscript following a set of parentheses in a chemical formula mean?

5) Write two simple rules for writing the formulas for an ionic compound.

6) Name and write the symbol for the one cation that is <u>not</u> a metal found in this activity.

7) Define a **binary compound** and give 3 examples (formulas and names). How many of the compounds in this activity were **binary**?

8) What major physical property do all of the ionic compounds in this activity share?