

Formulas for Binary Ionic Compounds

WE WILL USE THE FIVE STEPS CROSS-OVER RULE
Binary means at least two elements involved in the formula:

Identify the substance as metal or nonmetal

RULES:

1. Write the symbols
 2. Write the charges (Check the periodic table)
 3. Cross-over the charges from top to bottom
 4. Remove the charges
 5. Simplify the numbers and remove the 1's.
- Write the formula for the compound.

IONIC COMPOUNDS ARE COMPOUNDS CONTAIN BOTH METALS AND NONMETALS.

EXAMPLE: Sodium Chloride

Sodium is a metal and chloride nonmetal

Na⁺ Cl⁻ ; Na - Cl⁺; NaCl

For Class Work and Homework: Calcium Oxide;

Magnesium Chloride

Barium fluoride

Potassium phosphide

Sodium Sulfide