

# Naming Compounds

## Ionic Compounds

Identify each ion and its charge

Contains 2 ions: a positive ion (a metal) and a negative ion (a non-metal)

### Binary Ionic Compounds

Name the metal ion first. Name the non-metal second by ending the element name with *-ide*.

Contains multivalent ions  
(has more than one ion charge)

Use the roman numerals in brackets to identify which ion. Name the non-metal second by ending the element name with *-ide*.

Contains polyatomic ions  
(an ion with 2 or more non-metals)

Name the polyatomic ion as it is on your sheet. DO NOT change the ending to *-ide*.

To find the **chemical formula**, write the symbol and charge of the positive ion and the negative ion. Do the **SWAP, DROP, and CHOP**.

## Covalent Compounds

These compounds DO NOT form ions. No need to look at their ion charges.

Contains 2 elements: non-metal and non-metal

Name the **first** non-metal element as is and name the **second** non-metal element by changing the ending to *-ide*. Use prefixes in order to identify how many atoms there are for each element.

**ALWAYS** check to see if the compound is **IONIC** or **COVALENT!!!!**