

## ***Rules for Naming Compounds***

- 1) Metals combine with non-metals in many compounds
- 2) Write the name of the metal first and then the non-metal
- 3) Change the ending of the non-metal to "-ide"
- 4) Each atom has its own *combining capacity*
- 5) Atoms combine so that EACH can fill its combining capacity.

*Examples* \*combining capacities are from Tables 2, 3 and 4 on pages 64-65

Aluminum (Al) has a combining capacity of 3

Chlorine (Cl) has a combining capacity of 1

Therefore a compound of aluminum and chlorine would be

$\text{AlCl}_3$  and would be called *aluminum chloride*

Try This!

Name the compound and write the formula for the compound formed by Potassium and Oxygen

Nov 6 - 6:41 PM

### Further Examples

Aluminum and oxygen

aluminum (combining capacity 3)

oxygen (combining capacity 2)

$\text{Al}_2\text{O}_3$  *aluminum oxide*

Some metals have more than one combining capacity

ex: copper, iron, lead, tin

Rule 6-Use the Roman Numeral to indicate the combining capacity of the metal element in the name

Example Iron has a combining capacity of either 2 or 3

Oxygen has a combining capacity of 2

therefore, FeO is Iron II oxide and  $\text{Fe}_2\text{O}_3$  is iron III oxide

[Homework](#)

[Read pages 64-65](#)

[Do Questions 1-5 on page 65](#)

Nov 6 - 6:50 PM