

CHEMICAL SUBSTANCES

chemical formula

uses atomic symbols with subscripts
to indicate relative numbers of atoms in the substance

molecule

2 or more nonmetals
bond by sharing electrons

ionic compound

metals and nonmetals
"bond" by cation's attraction to anions

molecular formula

exact numbers of atoms in the molecule

formula unit

simplest ratio of ions

organic molecules

molecules with carbon, hydrogen
and possibly other nonmetals

polymers

very large molecules
formed from repeating small units

monomers

the small, repeating units of polymers

NAMING SIMPLE CHEMICAL SUBSTANCES

molecular

- 1) Use **element names** (with **prefix** for number)
- 2) Name from left to right
- 3) Use suffix **ide** after last element name

ionic

- 1) Use metal name (with roman numeral?)
- 2) Use the nonmetal name with **ide**,
or use the polyatomic ion name
- 3) Positive charges
must equal negative charges