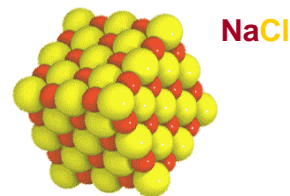


Chemistry BC2001x: General Chemistry I



Lecture 3: Tuesday September 15, 2009

Handout today:

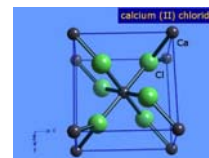
Writing net ionic equations: the basics (2 pages)

Please read the following on-line:

Chemistry BC2001x and the Barnard Honor Code



Compounds



Molecular

gases, liquids, solids
(lighter ones gases)

example: CH_4 (g)

ratio of H to C exactly 4:1

molecules of CH_4 exist

molar mass = **molecular** wt.

NO ions present

always stoichiometric

Ionic

solids at room T

example: CaCl_2 (s)

ratio of Cl to Ca exactly 2:1

NO CaCl_2 molecules

molar mass = **formula** wt.

Ions are present: Ca^{2+} , Cl^-

usually stoichiometric