Topic 5 – Chemical Formulas and Equations

Lesson 1 - Interpretation of Chemical Formulas

 Terms to Know

Chemical Formula –

Qualitative –

Quantitative –

Subscripts –

Counting Atoms in Different Types of Formulas

Simple Formula H2SO4 2H 1S 4O 7 total atoms

Formula with Parentheses (NH4)2O 2N 8H 1O 11 total atoms

Formula of a Hydrate CuSO4 ● 5H2O 1Cu 1S 10H 9O 21 atoms

Counting Ions

Binary Ionic Formula CaCl2 1Ca+2 : 2Cl-

Polyatomic Ion Formula Al2(SO4)3 2Al+3 : 3SO4-2

(with parentheses)

Polyatomic Ion Formula KNO3 1K+1 : 1NO3-1