

Chapter 3

Mass Relationships in Chemical Reactions

Average Atomic
Mass

Molar Mass

(atom or
molecule)

Gram-Mole
Conversions

$$n = \frac{m}{MM}$$

$$n = \frac{N}{N_A}$$

Percent
Composition of
Compounds

**Empirical
Formula**

**Molecular
Formula**

Balancing
chemical
equations

“Stoichiometry”

Applying
equations to
calculating
quantities

**Limiting
Reagent**

(more than one
reactants)

Excess Reagent

Reaction Yield.

**Theoretical
Yield**

(maximum
amount, you
should calculate
it)

Actual Yield

(always given in
the question)

Percent yield