

CHEM 109
Introduction to Chemistry
Fall 2011

Study Topics for Final Exam

Lecture 24: Balancing Chemical Reactions

Ammonia Example

Balancing Numbers of Atoms

Case Where a Free Element is Present

Case Where Polyatomic Ions are Present

Notations; (s), (l), (g), (aq), etc.

Stoichiometry

Interpretation of Stoichiometric Coefficients

Molecules vs. Moles

Stoichiometric Ratios

Lecture 25: Mass - Mole - Mole - Mass Calculations

Consistency with the Law of Conservation of Mass

Theoretical Yield

Actual and Percentage Yield

Limiting Reagent