

Strand 3- Conservation of Matter and Stoichiometry

=> AUHSD Science Content Standards 4a & 4g <=

Chapter 9- Chemical Reactions and Equations (1 week, 2 days)

Topics of Discussion

The Nature of Chemical Reactions

Chemical Equations

Classifying Chemical Reactions

Activities

HW- pp. 300-3(#1-23, 31-43) & (#24-29, 44-50) for Honors

CW- Writing Skeleton Equations

CW- Chemical Equations

Lab- Chemical Reactions/Equations

=> AUHSD Science Content Standards 4g <=

Chapter 20- Oxidation and Reduction (3 days)

Topics of Discussion

Oxidation-Reduction Reactions

Types of Redox Reactions

Applications of Redox Reactions

Balancing Redox Equations

Activities

HW- pp. 680-81(#1-21) & #22-28 for Honors

=> AUHSD Science Content Standards 4b-4d <=

Chapter 10- The Mole (2 weeks)

Topics of Discussion

Chemical Measurements

Mole Conversions

Empirical and Molecular Formulas

Activities

HW- pp. 343-45(#1-23, 30-45) & (#24-28, 46-55) for Honors

CW- Molar Mass Practice

CW- Mole-Mass Conversions

CW- Mole Road Practice

CW- Percentage Composition

CW- Simplest (Empirical) Formula

CW- Molecular (True) Formula

Lab- Weighing Different Masses

Lab- Empirical Formula

Video- Moles, Percent Composition, and the Empirical Formula

=> **AUHSD Science Content Standards 4e & 4f** <=

Chapter 11- The Mathematics of Chemical Equations (2 weeks)

Topics of Discussion

Stoichiometry

Solving Stoichiometry

Limiting Reactants and Percent Yield

Activities

HW- pp. 376-79(#1-23, 29-49) & (#24-27, 50-58) for Honors

CW- Mole Calculations- Stoichiometry

CW- Mass to Mass Stoichiometry

CW- Stoichiometry Level 1

CW- Stoichiometry Level 2

Lab- Stoichiometry

Strand 3 Free Response Exam (Chapters 9, 20, 10, 11)