# Chemistry Syllabus 2013-14

# Welcome to Chemistry

This course uses the “World of Chemistry” Zumdahl/Zumdahl/DeCoste Edition.

In Chemistry; Students will study the relationship between the structure and properties of matter. Chemistry also presents the right balance of concepts and applications, emphasizes active learning, and encourages students to solve problems creatively.

# Tentative Chemistry Road Map for fall 2013

Aug 26-30 Lab Safety and Equipment

Sept 3-Sept 6 Lab / Working in a Chemistry Lab

Sept 9-13 Scientific Method Basic Chemistry-Chapter 1

Sept 16-20 Matter: Chapter 2

Sept 23 – Oct 4 Atoms, Elements and Ions: Chapter 3

Oct 7-17 Nomenclature; Chapter 4

Oct 28 – Nov 15 Scientific Notation, Conversions Chapter 5

Nov 18 – Dec 6 Chemical Composition: Chapter 6

Dec 9-13 Catch up Chapter 1-6

Dec 16-19 Finals

# Spring 2014 Chemistry

**January 8th-17th Chapter 7**

Chemical Reactions and Balancing Equations

**Jan 20th-31st Chapter 8**

Types of Reactions (Predictions), Solid Forming (Precipitate), Solubility

Reactions & Spectator Ions, Reactions that form Water (Strong Acids/Strong Bases), and Classifying Reactions

**Feb 3rd-March 7th Chapter 9**

Chemical Quantities, Mole Ratios, Mass Calculations

Stoichiometry, Excess Reactants/Limiting Reactants and Percent Yield

**March 10th-March 28th Chapter 11**

Atomic Theory, Energy and Light, Electron Configurations and Orbitals

# March 31st-April 24th Chapter 12

Chemical Bonding, Types of Bonds, Electronegativity, Electron Configurations/Ions and Charges, Lewis Structures and molecular Structures

**April 28th-May 16 Chapter 13**

Gas Laws and Gas Stoichiometry

**May 19th –May 22nd - Finals**