August 9-10
Class Introduction and Orientation
1. Teacher Introduction
2. Classroom and Learning Rules
3. Grading System
4. White Board and Cabinets Orientation
5. Chrome Books Sites we will use.
6. Classroom Contracts

August 11-12
Chemistry Pre-Test (Scientific Reasoning Assessment)
Laboratory Orientation
1. Safety Scenario
2. Article in Lab Safety
3. Becoming Familiar with Lab Equipment
4. Laboratory Safety and Contract
5. First Assignment

August 16-19
Define chemistry.
List advantages and
disadvantages of chemicals
to our lives.
Distinguish between pure
and applied science.

August 23-26
Measuring Systems
Metric System
Dimensional Analysis

August 30-Sept 2
The Scientific Method
Lab: Scientific Method

No School Sept 5

Sept 6-9
Matter And Movement

Sept 13-16
The Atom, Molecule, and Ions
Electron Arrangement

****Quarter Quiz****

Sept 20-23 --Grades Go In
The Periodic Table Families

No School Sept 27-30

Oct 4-7
The Periodic Table
Groups, Atomic #, Mass #

Oct 11-14
Electronic Structure and The Periodic Table

Oct 18-21
Mass Relations In Chemistry
Measurements & The Mole
Avogadro's #

Oct 24-28
The indicators of a Chemical Reaction
Reactions in Aqueous Solutions
Lab: Reaction or Not

Nov 1-4
Types of Reactions
Lab: Reactions What?

Nov 8-10 --No School on the 11th
pH Scale
Reactions in Aqueous Solutions
Precipitate, Oxidation-Reduction
Water
Perspective Lab: Life without Water
Lab: Rust

Nov 15-18
Gases, Noble Gases, Helium 3
Chemical Equations & Reaction Rates

Nov 21-25 Thanks Giving Break

Nov 29 - Dec 2
The ideal Gas Law
Stoichiometry of Gases
Lab: Ideal Gas Law Excersizes

Dec 6-9
Stoichiometry & Heat Transfer
Gas Mixtures, Partial Pressure, Mole Fractions
Perspective Lab: Green House Effect Global Warming

Dec 13-16---Grades Go In
****1. Pre Test Midterm****
****2. Midterm****

Dec 19 - Jan 6 Winter Break

SECOND SEMESTER

Jan 10-13
Light, photons and Energy
The Hydrogen Atom
Electron Configuration

Jan 17-20
Covalent Bonding
Lewis Dot, the Octet Rule
Covalent vrs Ionic Bonding
The Polarity of Molecules

Jan 24-27
Solutions
Types of solutions

  Jan 31 - Feb 3
Concentrations
Solubility
Colligative Properties.
Perspective Lab: Oceans

  Feb 7-10
Rate of Reactions
Concentration, Rate, and Time
Activation

******Quarter Quiz******

  Feb 14-17   Grades Go In
Reaction and Temperature,
Catalysts
Perspective Lab: Ozone

*****Feb 21-24 Presidents Week*****

  Feb 28-Mar 3
Equilibrium
N_2O_2 Equilibrium System
Equilibrium Constant and K

  Mar 7-10
Acids and Bases
Bronsted-Lowry Model
Water Dissociation Constant
Ionic Bonding
Salts
Lab: phenolphthalein

  Mar 14-17
Ionic & Covalent Substances
Lab: Define an atom and give the name of the scientist
who first named the atom.

  Mar 21-24
Summarize Dalton's atomic theory.
Distinguish between protons, electrons, and neutrons in
terms of their symbols, relative masses, charges, and
scientific discoverer.
Lab: Complete the Table of Elements

  Mar 28-31
Complex Ions
Naming Complex Ions

  April 4 - 6 --No School on the 7th

 *****April 10 -14 Easter Break*****

  April 18-21
Electro Chemistry
Standard Voltages
Electrolytic Cells
Commercial Cells
Lab: Make a Battery

  April 25-28
Nuclear Reactions
Stability and Radio Activity
Fusion verses Fission
Perspective Lab: China's Fusion Reactors

  May 2-5
The Diamond Battery
Carbon Dating

  May 9-12
The Chemistry of Metals
Metallurgy
Alkali and Alkali Earth Metal Reactions
Lab: Ghost Busters Building
Perspective Lab: Metals in Nutrition

  May 16-19
The Chemistry of Non Metals
The Elements
Hydrogen Compounds of Nonmetals
Oxygen Compounds of Nonmetals

  May 23-26
Review

  May 30- June 2 -- Grades Go In
*****Final Pre Test*****

*****Final*****