

Chemistry Honors Syllabus

Hello! Welcome to Chemistry Honors pre-study.

Course Description

This course is meant to be a preview of Chemistry Honors. Class will consist of teaching and there will be light homework assigned.

Textbook: *Modern Chemistry* by Holt, Rinehart, and Winston, 1st edition.

ISBN-13: 978-0030511226

A physical textbook is not necessary for this summer class.

Class Schedule: Below is the tentative schedule. The specific lessons may be adjusted depending on the aptitude of the class.

Day 1	Chapters 1, 2: Introduction to Chemistry and Measurements
Day 2	Chapter 3: History of The Atom, Molar Mass
Day 3	Chapter 4: Atomic Orbitals and Electron Configuration
Day 4	Chapter 5: Periodic Table and Trends
Day 5	Chapter 6/7: Ionic/Metallic Bonds and Ionic Naming
Day 6	Chapter 6/7: Covalent Bonds, Naming, and Lewis Structures
Day 7	Chapter 8: Chemical Reactions
Day 8	Chapter 9: Stoichiometry
Day 9	Chapter 12: Solids, Liquids, and Phase Changes
Day 10	Chapter 13: Solutions
Day 11	Chapter 13: Aqueous Solutions and Colligative Properties
Day 12	Chapter 17-1: Heat and Calorimetry
Day 13	Chapter 17-1: Enthalpy of reaction, formation, Hess' Law
Day 14	Chapter 17-3,4: Rates of Reaction

2020 Chemistry Honors Sessions:

6/16-8/6: This session has 14 days, so we will cover most of the book, unless there is a need to slow down the class progression.

7/9-8/6: This session has 9 days, so we will go through about 3/4 of the book, unless I feel I to slow down the class progression.