

Required materials:

- Chemical Splash Goggles & Lab Coat
- Molecular Models Kit: "MOLECULAR VISIONS™ Model Kit"
- Lab Manual: *CHM2210L/2211L, Broward College, North Campus*. Pearson Learning Solutions, 2019. ISBN 13: 9781323900260.

WEDNESDAYS	EXPERIMENT TITLE AND PRIOR READING ASSIGNMENTS
January 11	Introduction, Lab Safety, and Introduction to ChemDraw
January 18	<i>Learning Basic Operations, Part A (Standard Scale-Reaction & Separation)</i>
January 25	Graphing with Excel; <i>Learning Basic Operations, Part B (Meas. Density ...)</i> & Purification of an Unknown Compound by <i>Recrystallization (Melting Point)</i>
February 1	<i>Heating Under Reflux</i>: Syn. of Salicylic Acid from Wintergreen Oil (Microscale –Reaction & Separation)
February 8	<i>Heating Under Reflux</i>: Syn. of Salicylic Acid from Wintergreen Oil (Microscale–Purification & Analysis, Melting Point) & <i>The Structures of Organic Molecules</i>
February 15	<i>Boiling Point, Refractive Index</i>, I.D. of a Petroleum Hydrocarbon (Standard Scale-Purif. [Distillation] & Bpt.) & *Molecular Models: <i>Conformational and Structural Isomers*</i>
February 22	<i>Boiling Point, Refractive Index</i>, I.D. of a Petroleum Hydrocarbon- <i>Density Measurement & Refractive Index Measurement</i> & *Molecular Models: <i>Conformations of the Cyclohexane Ring*</i>
March 1	Sugar Identification using <i>Polarimetry</i> [Vernier Chemical Polarimeter] and *Molecular Models: <i>Stereoisomers & Configurations*</i>
March 8	<i>SPRING BREAK, NO LAB!</i>
March 15	<i>LAB EXAM 1</i>
March 22	Structures and Properties of Stereoisomers [PART A: Microscale & PART B]
March 29	Structures and Properties of Stereoisomers [PART C & *PART D*] & <i>Thin Layer Chromatographic</i> Analysis of Drug Components
April 5	<i>Addition, Sublimation</i>: A Green Synthesis of Camphor (Microscale) - Reaction & Separation
April 12	<i>Addition, Sublimation</i>: A Green Synthesis of Camphor (Microscale) – Purification & Analysis & Investigating <i>Gas Chromatography</i> ["The Vernier Mini GC"]
April 19	<i>Nucleophilic Substitution Rates of Alcohols & Oxidation of Alcohols by Potassium Permanganate</i>
April 26	<i>LAB EXAM 2</i>