

CHEMISTRY 109
TENTATIVE LABORATORY SCHEDULE

WEEK	ACTIVITY
1	Check In, Graphing,, Safety (Separate 380)
2	Density (Separate 383) (Significant Figures and Dimensional Analysis)
3	Empirical Formula Determination (Separate 423) Chemical Formula and Naming Compounds)
4	Chemical Reactions (Separate 422)
5	Analysis of Vinegar (Separate 395)
6	Standardization of a Sodium Hydroxide Solution with Oxalic Acid (Separate 424)
7	Determination of the percentage purity of a KHP unknown (handout)
8	Determination of Gas law Constant R (handout)
9	Estimating the Caloric Content of Nuts: Heat of Combustion (Separate 428)
10	Heat of Neutralization (Separate 609) or water hardness (Separate 436)
11 and 12	Gravimetric Analysis of Barium Sulfate (Separate 356)
13	Analysis by Light (Spectrophotometry) Visible Spectrum of $[\text{Cu}(\text{NH}_3)_4]^{+2}$ Beers Law Separate 358)
14	Determination of Avogadro's number (Separate 496) Molecular Modeling ((handout)
15	Complete All Work; Check Out

Laboratory Manual: Modular Laboratory Experiments for General Chemistry
 Laboratory Notebook: Purchase of a Laboratory Notebook to Record Data is required
 Safety Feature: Safety Glasses must Be Purchased and worn in the Lab
 NO lab work may be performed unless safety glasses are worn. A Laboratory Apron is Strongly Advised

All of the above items are available in Bookstore