LAB WRITEUP INSTRUCTIONS: JUNE 2011

1. MAKEUP LABS: for labs to meet regents requirement, if you are missing a lab that you have an online grade for please do the following;
   1. Print the lab from your computer and submit OR
   2. Do a handwritten calculation using YOUR data from lab notes with extensive annotations of the logic and any equations used. This is best for the practicals or mole labs. OR
   3. Submit the last 4 write-ups…titration, ester, modeling and half-life if they reach the quota.
   4. You may redo any lab from your own lab notes and data.
   5. YOU MAY **NOT** PHOTOCOPY OR HANDCOPY ANOTHER STUDENTS LAB. DO IT NOW AND YOU WILL BE CITED FOR HONOR CODE!

WITH THE EXCEPTION OF MODELLING, ALL THE FOLLOWING ARE ONE OR TWO PAGES…SHORT AND CONCISE, handwritten is best.

TITRATION WRITEUP (mandatory)

* + 1. Write a two paragraph intro defining titration and discuss the titration equation. Compare the molarity, dilution and titration equations and how to determine when to use them.
    2. Show all of your data and calculate the molarity of the acid, the molarity of the base was 0.10 molar.
    3. Calculate % error.

HALF LIFE LAB (mandatory for honors):

1. Follow the sheet, however use pennies instead of the stimulants mentioned. Fill in the sheet only and submit.

ESTERS(mandatory)

1. Write a paragraph on esterification, naming esters and recognizing them.
2. Using the PowerPoint from class as a template, show the ester reaction in great detail.
3. Research the esters of cherry, pineapple, wintergreen or any others that you find interesting and draw them, show the reactions to make these from the acid and alcohol.

MOLECULAR MODELING (mandatory regents review lab).

1. For the substances: Br2, CH4, NH3, CO2, H2S, diamond, graphite, NaCl, Na2SO4
2. For each substance:
   1. Classify the substance (ionic, covalent etc)
   2. Draw the VSEPR dot (Lewis dot) structure, show bond angles. For graphite or diamond find a pic and explain it.
   3. Discuss the attraction and its RELATIVE mp, bp , and conductivity properties.
   4. Build a model with toothpicks and gumdrops (or playdoh) and take a picture, paste into the report. I will NOT collect the models.