

Experiment 3 Lab Report: Name _____ Section (M-1) (M-3) (W-1) (W-3)
Dr. Hahn sections Show all work for partial and full credit. Circle your section.

My Lab Partners were: _____

My assigned salt was _____ My assigned concentration was _____

By providing your data to the class data sheet, you will earn 50% of your grades. The 5 questions are the remaining 50% of your lab report grade. I will either post or email the class data sheet as an excel document (without plots)

1. Show your calculation of the formula mass of your assigned salt. (10 %)
2. Show your calculation of the Molarity of your assigned salt stock solution. (5 %)
 $M \text{ (molarity)} = (\text{moles solute}) / (\text{L solution})$ # moles = mass in grams / (formula mass in grams / mol)
3. Show your calculation of the Molarity of your assigned dilution. (5 %) $M_{\text{initial}} V_{\text{initial}} = M_{\text{final}} V_{\text{final}}$
(if you did not do a dilution, you should do the dilution of 0.070 M solution for your salt)
4. How do you read a buret ? If you start with the volume at 1.34 mL and you add solution until you get to 3.72 mL, what is the volume of the solution that you have added ? (5%)
5. What was the color of your sample when you looked at it (give color & approximate wavelength) ?
What was the color of highest absorbance (give color and approximate wavelength) (see page 295 of your lecture textbook) ? (5 %)
6. Attach your plot of the class data sheet for all 3 salts and all concentrations on the class group data sheet. (10%)
7. Attach your answer to question 1 and 2 on page 42 of your lab textbook. (5% each question, 10%)