*WEEK 1*

*This will be a two week lab and the bulk of the first week will be spent creating a procedure that will be used by the entire class. To be successful as a class, EVERYONE* *MUST COME PREPARED AND READY TO PARTICIPATE.*

1. **Read** pages 21-24 in your lab manual.
2. Type the answers only to the questions on page 24 in the manual. Bring a print out with you which will be turned in with your notebook pages for week 1. We will discuss the answers in lab.
3. Complete the following in your notebook:
   1. fill in header except for bin & partner
   2. write an objective
   3. create a numbered list of any references you used to answer the questions including the appropriate reference for the manual.

You will write the procedure and create data tables for any experimental work done the first week in class.

WEEK 2

We will continue with “Mom's Saline Solution”. You do not need to write a new objective or references. **DO NOT START UNTIL THE DEADLINE FOR THE LAST POST (***NOON WEDNESDAY***) HAS PAST.** Continuing on the next page from where you left off, prepare the following:

1. Fill in the heading, include partner and bin number from previous week & specify week 2.
2. Experimental outline
   1. review all posts related to the procedures
   2. write a detailed procedure for the standard curve and equilibrium constant determination that includes any improvements or additional steps suggested in the discussion
   3. leave room to record any adjustments you need to make as you conduct the experiment
3. Data & Observations
   1. review all posts related to the collection of data
   2. create appropriate tables to record the data in an organized fashion
   3. keep in mind the critical data needed to calculate equilibrium concentrations of both product and reactants
   4. be sure to number and title each table with the purpose of the table
4. Calculations
   1. write general equations for how you will use the absorbance from the spectrophotometer and other pieces of data to calculate:
      1. [FeSCN2+]eq
      2. [Fe3+]eq
      3. [SCN−]eq
      4. Keq
   2. have the general equations checked before you begin any calculations