Your Formal Report for the Coordination Chemistry Project

1. This lab section's formal report will cover just three weeks of work.

2. Be sure to read and study the lab manual's material on how to write and organize a formal report.

3. Restrict your writing to a total of 10 pages of text (font size = 12, with 1-inch margins, use only Arial, Helvetica, or Times New Roman fonts). The 10-page limit does not include a title page, tables, spectra, figures, and references.

4. Use the checklist on the other side of this paper to be sure you don't miss anything.

4. Advice: Start writing immediately. It will take longer than you think.

5. Submit your report to the instructor's hands by 10:30 AM on Monday April 2, 2007 for full credit.

6. Feel free to submit your report earlier to avoid the 10% per day late penalty.

7. Ask ahead of time if you are unclear about anything since it will be too late later.
Checklist of Activities for the Coordination Chemistry Project

Directions: Your compound has the formula KₘFeₙ(C₂O₄)ₙ • d H₂O. Check off the following for it as they are done, and include this sheet with your formal report.

1. Potassium analysis
   _____ Beer's law graph prepared for potassium standards
   _____ Calculated the percent of potassium (K⁺) in your compound

2. Iron analysis
   _____ Calculated the percent of iron (Fe³⁺) in your compound

3. Oxalate Analysis
   _____ Calculated the molarity of your standard sodium oxalate solution
   _____ Calculated the molarity of your potassium permanganate solution
   _____ Calculated the percent of oxalate (C₂O₄²⁻) in your compound

4. Water analysis
   _____ Calculated the percent of water (H₂O) in your compound

5. Visible spectroscopy
   _____ Visible spectrum of your compound recorded and printed
   _____ Molar absorptivity of your compound calculated at the spectral peak

6. Other work
   _____ Empirical formula calculated for your compound (Use a table!)
   _____ Estimated the percent yield of your compound
   _____ Number unpaired electrons calculated for your compound (if time)
   _____ Infrared spectrum of your compound measured (if time)
   _____ Anything else?