Title page: Experiment Name/Your name/Lab Partner:

Abstract: (15 points) defined in dictionary as a summary of points…

Your abstract should be a concise statement of the major points of your experiment. It should include the following:

Objective/statement of experimental methods (i.e., mention equipment and how it was used- two or three sentences only)/primary results and any statement elaborating on the results/primary sources of uncertainty

Results presentation: (10 points) The results should be placed in one concise form (e.g., a table or chart). Your lab instructor should not have to look for your results. You should always calculate % error and % difference whenever relevant and present with results.

Graphs can be put in either the results section or in the back of the lab report. You should always explicitly state any specific relevant results obtained from your graph (e.g., the slope of the equation of a line). Graphs should be fully labeled. See lab manual.

Sample calculations: (5 points) You should show one type of each different kind of calculation used to arrive at your results (e.g., a density calculation). Do not show % error or % difference calculations.

Discussion of Results: (25 points) You should explicitly summarize your experimental objectives and discuss whether they were accomplished. You are to discuss your results in the context of the main theoretical principles. If your objectives were not met you should discuss why. You should always discuss sources of uncertainties and errors. Any suggestions on how to improve the lab should be placed here.

Please note that occasionally you will discuss a concept only to see it asked as a question. If this occurs, simply make a note of it in the Questions section. You do not have to re-answer the question. It is strongly recommended that you look at the questions before you write your discussion since you will probably find important concepts there.

Lab Manual Questions: (20 points) Always answer the questions at the end of the lab procedure.

Honors Question- (10 pts) On most experiments you will be given a separate Honors part. You will have to decide whether or not it merits discussion in the Discussion of Results section above.