



Overall Neatness / Presentation

10 pt Information: *Lab Name and Number, Partner name, Date*
Neatness / Readability

Preparation for Data Collection (30 points)

10 pt Pre-lab questions (Printed out, answered, taped in notebook)
5 pt List of materials
5 pt Very brief procedure
10 pt Diagram (typical measurements, definition of variables)

Data Collection and Analysis (40 Points)

10 pt Data collection in notebook
File names, file locations
LabView Settings
Charts of data, individual measurements

10 pt Graphs
Units on each axis
Legends (if needed)
Reasonably descriptive title
Proper trend line (if needed)
Graphs should be scaled to fit into your lab notebook
Usually around 3.5 in. x 5 in.

10 pt Sample Calculations
Starting equation
Solving for variable
Equation with numbers
Unit verification
Translation of Excel equations

10 pt Answers to questions (throughout lab)

Results and Conclusions (20 points)

10 pt Comparison to standard or comparison of two types of measurements
Percent Error: Comparison to "Known or Accepted" value

$$\% \text{ Error} = \frac{| \text{Accepted value} - \text{Experimental value} |}{\text{Accepted value}} \times 100\%$$

Percent Difference: Comparison between two experimental measurements

$$\% \text{ Difference} = \frac{| \text{Method A} - \text{Method B} |}{(\text{Method A} + \text{Method B}) / 2} \times 100\%$$

10 pt Written summary of results

