

Total Points: \_\_\_\_\_/50

Name: \_\_\_\_\_

### Formal Lab Report Rubric

*Remember, using someone else's words or ideas (whether those of a classmate or textbook author) without giving credit is considered plagiarism.*

( \_\_\_\_\_/7 Points) **OVERALL FORMAT, SPELLING & CONCEPTUAL UNDERSTANDING:**

	1	< Five errors in spelling, punctuation, capitalization, or grammar
	1	Paper has correct title, section headings, figure, table numbers, and captions.
	1	Header includes appropriate title, your name asterisked, your lab partner's name, and date
	1	Technical writing style is employed (no "I" or "we"), and values taken from a specific source are cited
	1	Paper was written in the past tense, passive voice
	2	Yellow experimental data sheet included and correctly done

( \_\_\_\_\_/4 points) **ABSTRACT:**

	1	The Abstract is complete, accurate and succinct (100 words or less)
	1	Goal statement is included.
	1	Methods statement for both data collection and analysis included.
	1	Result statement is included

**EXPERIMENTAL DOCUMENTATION & DATA INTERPRETATION:**

( \_\_\_\_\_/8 points) **INTRODUCTION:**

	4	<i>Introduction section is complete, accurate, detailed, and understandable to peers</i>
	4	Well-written theory, strong connection made between the specific experiment done in lab to class or textbook topics, background information given to help clarify relevant concepts

( \_\_\_\_\_/4 points) **METHODS:**

	1	<i>Methods section is complete, accurate, detailed, and understandable to peers</i>
	1	Setup is described, materials, measurements, and methods are summarized and are clearly understood
	1	No specific data is included
	1	Methods used for data collection are valid

( \_\_\_\_\_/15 points) **RESULTS: Sections may be weighted if not all sub-sections are needed.**

( \_\_\_\_\_/5 points) *Data Table*

	2	Data is presented in computer-generated data tables/all data is recorded
	1	Raw data is distinguished from manipulated data
	1	Data is recorded with proper and consistent precision given to measuring tool(s) and data provides evidence of careful experimentation and data collection
	1	All data includes proper units

( \_\_\_\_\_/6 points) *Computer-generated graph and/or questions*

	2	Choice of data plotted on each axis is appropriate
	2	Axes are completely labeled with quantities and units, title is descriptive and appropriate
	2	Caption describes specific relationship between data plotted
	6	<i>Questions answered correctly and completely</i>

( \_\_\_\_\_/4 points) *Calculations/Analysis*

	2	A single correct sample calculation is done for each unique type of calculation: includes equation, substitution, and calculated answer with unit & precision
	2	Percent error (with sign) is calculated for each trial and for average (when app)

( \_\_\_\_\_/10 points) **DISCUSSION**

	2	Results of investigation are summarized in paragraph form
	2	Identification of two major and appropriate sources of error (1, 2)
	2	Effect of error on raw data (1, 2)
	2	Effect of error on results/relationship to sign (1, 2)
	2	Realistic improvements (1, 2)

( \_\_\_\_\_/2 Points) **Conclusion:**

	1	Clear, succinct summary statement
	1	Relates results to goal of experiment and excludes specific data