

Laboratory Rubric

General: How orderly and neatly did I complete the assignment?

<u>Item</u>	<u>Description</u>	<u>Points</u>	<u>Score</u>
Neatness	Sloppy, difficult to read, torn pages, items crossed out	Minimum grade 50% do over within 2 days	
Incomplete	Any of the following not done: Background, Data Table, Graph, or Conclusions	Minimum grade 50%, complete within 2 days	
Items out of order	Graph may be placed at back of lab, all other items should be in the order below	Minus 1 for each item out of order	
Heading	All items must be completed	minus 5 if not correct	

Connecting: How well did I link my prior knowledge and experiences with established science concepts to construct a testable hypothesis?

<u>Item</u>	<u>Description</u>	<u>Points</u>	<u>Score</u>
Title	Must be in proper format	5	
Key Question	Related to background and hypothesis	5	
Background	2-3 paragraphs, important information, definitions, related to hypothesis	8	
	Diagrams / visuals, informative and labeled	4	
	Sources: title, copyright, pages, url	3	
Independent variable	IV abbreviation minus 1	5	
Dependent variable	DV abbreviation minus 1	5	
Hypothesis	Must be testable & in proper format	5	
TOTAL SCORE		40	

Designing: How well did I design a plan to guide an investigation, provide an explanation, or resolve a problem?

<u>Item</u>	<u>Description</u>	<u>Points</u>	<u>Score</u>
Experimental Design	Independent variable and units	1	
	Levels	1	
	Trials	1	
	Constants (variables kept same)	1	
	Control (if none must be stated)	1	
Materials	Complete & specific (sizes, amounts, etc)	5	
Procedures	Could be followed by others w/o inferring	5	
Safety Concerns	Always include no horseplay	minus 5 if not complete and signed	
TOTAL SCORE		15	

Investigating:

How well did I carry out the procedures of my plan to collect, organize and present my data?

<u>Item</u>	<u>Description</u>	<u>Points</u>	<u>Score</u>
Data Table	Independent and dependent variables with units	1	
	Values for levels	2	
	Trials listed (not T1, T2, etc)	1	
	Correct mean	2	
	Correct range	2	
	Data complete	2	
Results Graph			
	Correct graph type	2	
	Title	1	
	Axis labels	1 point each axis (2)	
	Axis units	1 point each axis (2)	
	Correct axis intervals	1 point each axis (2)	
	Accurate and legible plot points	6	
TOTAL SCORE		25	

Constructing Meaning:

How well did I consider and explain science content and inquiry processes, demonstrating scientific thought, reasoning and reflection?

<u>Item</u>	<u>Description</u>	<u>Points</u>	<u>Score</u>
Conclusions	Topic sentence	2	
	Statistical summary	3	
	Hypothesis, support Y/N, evidence	4	
	Anomalies (if none, state none)	2	
	Sources of error, improvement reliability	4	
	Changed thinking, learning	2	
	Question for additional study	3	
TOTAL SCORE		20	

COMBINED TOTAL SCORE		100	
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