

**Title/Cover Page: Detailed statement of the lab subject.**

Score	0	20	40	60	80	100
	No title/cover page submitted.	Statement only includes background topic. ex. "Evolution Lab"  Lab partners, date of submission, and instructor not included on cover page.	Title is overly lengthy <b>or</b> excludes basic information about the lab subject.  Lab partners, date of submission, and/or instructor not fully included on cover page.	Includes information about the subject and one or more other important elements.  Lab partners, date of submission, and instructor are fully included on cover page.	Efficiently tells the reader the topic studied in the lab and incorporates variables.  Lab partners, date of submission, and instructor are fully included on cover page.	No errors in: spelling, grammar, punctuation, syntax, etc.)

**Abstract: A general overview of the purpose, procedure, and conclusion of the investigation**

Score	0	20	40	60	80	100
	No abstract submitted.	Does not include a statement of purpose.  Makes no reference of methods.  No data summary is included.	The relationship to be investigated is stated incorrectly.  Inaccurately represents the methods used.  Statement of results is unclear and is missing actual data.	The relationship to be investigated is stated, but is overly wordy or unclear.  Introduces basic information about the methods.  Includes a clear statement of results but is missing actual data.	Clearly and concisely states the relationship that will be investigated.  Clearly and correctly introduces methods used.  Clear and brief statement of the results, including data.	(No errors in: spelling, grammar, punctuation, syntax, etc.)

**Introduction: A written statement of what is known about the topic, how this information related to the lab, the variables of the investigation, and your hypothesis.**

Score	0	20	40	60	80	100
<b>Background information</b>	No background information provided.	Some essential concepts related to the investigation are not mentioned.	Background is limited to basic definitions or "notes" without discussion of topics.	Concepts related to the lab are discussed.	Thoroughly and clearly discusses concepts related to the lab content.	(No errors in: spelling, grammar, punctuation, syntax, etc.)
<b>Variables</b>	No variables are provided.	Incompletely or incorrectly lists independent and dependent variables. Does not include controlled factors.	Incompletely or incorrectly lists independent and dependent variables. Includes less than two specific controlled factors.	Correctly identifies general independent and dependent variables. Includes at least two controlled factors.	Correctly identifies specific independent and dependent variables. Includes at least two controlled factors.	(No errors in: spelling, grammar, punctuation, syntax, etc.)
<b>Hypothesis</b>	No hypothesis provided.	Incomplete written hypothesis - does not state what the expected results should be if hypothesis is supported.	Incomplete written hypothesis - does not state what the expected results should be if hypothesis is supported.	Clear hypothesis is provided - but does not clearly state what the expected results should be if hypothesis is supported.	Well written hypothesis that does clearly state what the expected results should be if hypothesis is supported.	(No errors in: spelling, grammar, punctuation, syntax, etc.)

**Methodology: An easily reproducible, yet detailed description of the protocol.**

	<b>0</b>	<b>20</b>	<b>40</b>	<b>60</b>	<b>80</b>	<b>100</b>
	No methodology submitted.	Written description of the protocol is insufficient and/or unclear.  Equations (when applicable) are not included.	Written description of the protocol is incomplete. Some steps of the protocol are missing or out of order; lacks clarity - does not accurately reflect the experimental design.  Not written in third person, past tense.  Some equations are stated. Computations are included	Written description of the protocol are sufficient for lab to be reproduced by peers; accurately reflects the experimental design.  Not written in third person, past tense.  All equations are stated, but computations are included.	Written description of the protocol is clear and concise and can easily be reproduced by peers; accurately reflects the experimental design.  Written in third person, past tense.  All equations are stated without computations.	(No errors in: spelling, grammar, punctuation, syntax, etc.)

**Results: A written narrative of data collected and conclusion generated. Includes captioned tables and/or figures (graphical representation of data).**

<b>Score</b>	<b>0</b>	<b>20</b>	<b>40</b>	<b>60</b>	<b>80</b>	<b>100</b>
<b>Narrative</b>	No written narrative is included.	Summary of data lacks supporting evidence and/or does not reflect an understanding of the relationships/trends in the investigation.	Summary of data reflects a developing understanding of the relationships and trends.  Does not provide data gathered in the investigation.	Summary of data reflects a basic understanding of the relationships and trends.  Some data provided; units missing.	Summary of data reflects a strong understanding of the relationships and trends.  Appropriate data is provided with units and is incorporated into the narrative	(No errors in: spelling, grammar, punctuation, syntax, etc.)
<b>Visuals</b>	No tables and/or graphs are provided.	Data table is incorrect and/or does not contain labels or appropriate units.  Graph is not appropriate for the data and is missing labels, suitable units (scale), correctly plotted data, and/or legend.	Data table includes one or more (but not all) of the following: labels, appropriate units, format.  Graph is appropriate for the data but one of more of the following is missing: labels, suitable units (scale), correctly plotted data, and/or legend.	Data table is appropriate but is missing one of the following: labels, appropriate units, format.  Graph is appropriate for the data but is missing one of the following: labels, suitable units (scale), correctly plotted data, and/or legend.	Data table is appropriate and includes all of the following: labels, appropriate units, and format.  Graph is appropriate for the data and contains all of the following: labels, suitable units (scale), correctly plotted data, and legend.	(No errors in: spelling, grammar, punctuation, syntax, etc.)
<b>Captions</b>	No captions are provided with diagrams of graphs.	Explanations for each table/graph are mostly incorrect and/or are overly wordy.	Brief explanations are included, but do not include a description of the processes featured.	Brief explanations are included and do not include a description of the processes featured.	Brief explanations are included and data is referenced to include a description of the processes featured.	(No errors in: spelling, grammar, punctuation, syntax, etc.)

**Discussion: This section reiterates the lab's main findings. The "discussion" also explains and analyzes those results with references to the proposed goal of the investigation.**

<b>Score</b>	<b>0</b>	<b>20</b>	<b>40</b>	<b>60</b>	<b>80</b>	<b>100</b>
<b>Claim</b>	Does not address whether the hypothesis of the investigation was supported or refuted.	Includes a statement of whether the hypothesis of the investigation was supported or refuted; statement is wordy and/or unclear.	Includes a statement of whether the hypothesis of the investigation was supported or refuted; statement reflects some bias and overly wordy.	Includes a statement of whether the hypothesis of the investigation was supported or refuted; statement reflects some bias	Includes a clear, concise, and unbiased statement of whether the hypothesis of the investigation was supported or refuted.	(No errors in: spelling, grammar, punctuation, syntax, etc.)
<b>Use of Evidence Analysis</b>	No connections between the content and the data are stated.	General summary/trend of the data in indicated.  Does not attempt to analyze the connection between the content of the lab and the results.	General summary/trend of the data in indicated.  Analysis of the connection between the content and the results is attempted but unclear; points out inaccurate implications and/or draws inaccurate conclusions.	Clear written explanation of how evidence supports or refutes hypothesis with data.  Analysis of the connection between the content and results is attempted. Attempts point out implications and draw inferences.	Written explanation of how the evidence found in the investigation supports or refutes hypothesis with clearly stated data; statistical analysis (if applicable) is included.  Includes clear analysis of the connection between the content and results of the investigation. Clearly points out implications and draws appropriate inferences.	(No errors in: spelling, grammar, punctuation, syntax, etc.)
<b>Error Analysis</b>	No error analysis is included.	Does not attempt to identify a possible error along with how it did (or could) affect results and how it could be resolved.  "Human error".	Identifies a possible error source, but does not explain specific effect on results and how the error could be corrected.	Identifies a possible error source, but does not explain specific effect on results <u>or</u> how the error could be corrected.	Addresses and analyzes a factor that may affect results, how the results were affected, and how the error could be corrected.	(No errors in: spelling, grammar, punctuation, syntax, etc.)

**Citations: Always cite your sources!!!**

<b>Score</b>	<b>0</b>	<b>20</b>	<b>40</b>	<b>60</b>	<b>80</b>	<b>100</b>
	No citations are provided.	Format of citation is not in APA format.  Source is not valid.  In-line citations are not included when used.	Format of citation is in APA format.  In-line citations are not included when used.	A valid source is used.  Format of citation is in APA format.  In-line citations are used.	Multiple valid sources are used.  Format of citation is in APA format.  In-line citations are used.	(No errors in: spelling, grammar, punctuation, syntax, etc.)