

	Exceeds Expectations	Expectations Met	Acceptable	Needs Improvement	Unsatisfactory
Title	Meets expectations and formatting is appropriate.	Describes relationship between independent and dependent variables in one statement.	Variables are mentioned but relationship is incorrect.	Lab title identifies some aspect of the lab.	Title is missing.
Background Information	Meets expectations and shows a depth of understanding.	Define and explain relevant terms, skills and content.	Background Information contains minor errors	Missing many components and/or fails to be relevant to the experiment.	Background is missing or plagiarized.
Problem Question	Meets expectations and problem posed in a testable question format and identifies a relationship.	Problem is correct but not posed as a question.	Problem posed contains minor errors	Problem unclear and/or fails to generate a relationship	Problem Question is missing.
Variable Identification	Meets expectations and identifies multiple constants (controlled variables)	All 3 variables correctly identified with only one constant identified. Control mentioned if applicable	2 of 3	1 of 3	Variables are not identified.
Hypothesis	Meets expectations and is posed as a testable 'if, then' statement. The hypothesis relates variables to be tested in the following way: "If [independent], then [dependent]"	Incorrect format or non-testable	Unclear or fails to relate to problem	N/A	Hypothesis is missing.
Materials	Meets expectations and lists appropriate materials with a greater specificity.	Appropriate materials are listed.	Materials list includes minor errors.	Materials listed are insufficient to complete the lab.	Materials are missing.
Procedure	Meets expectations and has additional pertinent detail (may include diagram)	Clear, concise step by step procedure capable of being duplicated with similar results	Procedure includes minor errors	Procedure is unrelated to experiment or insufficient	Procedure is missing.
Data Collection	Meets expectations and circumstances of collection is documented.	Data table is labeled, organized, and has proper titles and units. Rounding is appropriate.	Minor errors	Data is incomplete and insufficient to draw conclusions	Data is missing.
Data Analysis	Meets expectations and uses appropriate type of graph, Proper title, Independent variable and units on X-axis, Dependent variable and units on Y-axis, Scales appropriate for task, Graph shows appropriate trend.	Has between six or seven out of the eight components in Exceeds Expectations.	Has between four and six of the eight components	Has only one to four of the eight components	Data Analysis is missing.
Error	Meets expectations with increased detail and specificity and/or includes solutions to eliminate errors mentioned.	Identified possible and/or present errors that are appropriate but do not change the experiment	Errors are tangential and/or would change the experiment.	Errors are incorrectly identified.	Errors section is missing.
Conclusion	Meets expectations and additionally quotes / paraphrases external sources that bolster the validity of the conclusion with citation	Restates the hypothesis as a topic sentence. Briefly discusses the validity of the hypothesis and refers to data in order to validate / invalidate. States a conclusion (answer to the question) in a single sentence.	One component is unclear or missing	Two or more of the components are unclear or missing	Conclusion is missing or plagiarized.
Discussion	Meets expectations with detailed and thoughtful reflection with references to external sources	Expansion of the conclusion statement that incorporates real world scenario	Brief, superficial and / or limited	No real world connection and / or incorrect	Discussion is missing or plagiarized.