

Matter/Mass Inquiry lab

Name: _____

	4. Distinguished	3. Proficient	2. Apprentice	1. Novice
Presentation: Presentation, completeness, and Neatness	Report is well organized and easy to understand; contains no spelling or grammar errors. Presentation is neat and polished, writing is easy to read, no crossed out lines. All questions/sections are answered in full sentences. Both parts of the lab are included and complete.	Report is well organized and clear but contains some spelling or grammatical errors. Presentation is fairly neat, but may have 1 or 2 scribbles. Presentation is fairly neat, but could use a bit more pride. Most questions are answered and in full sentences - perhaps 1 or 2 missing. Both parts of the lab are included and mostly complete.	Report is somewhat organized with quite a few spelling or grammatical errors. Presentation is messy, and needs more pride and effort. Many scribbles, doodles, crossed-out sections. At least half of the lab is complete, and questions answered. Both parts of the lab are included.	Report is unorganized, messy, unreadable, has many scribbles, doodles, incomplete, missing one of the parts. No effort or pride evident.
Lab Work-Methods: Description of process and setup	Setup was documented completely. Method was explained completely and accurately, making experiment easy to reproduce. It was like a very detailed recipe that was easy to follow.	Experiment can be reproduced using the steps provided, but more detail needed - basic outline is there, but needs a bit more specifics.	Description was too general. Procedure was missing multiple steps. Information provided is not enough to repeat the experiment.	Setup was not described or documented. Step-by-step procedure was missing or inadequate. It is impossible to repeat the lab with the instructions given.
Lab Work-Materials and Equipment: List of materials used	Made complete list of materials used, and amounts needed. Very specific about amounts and equipment used.	Made complete list of materials used, but could be a bit more specific about amounts, or types of equipment.	Did not list all items used. Did not show details about items used.	List of materials was missing or showed minimal detail of the materials used.
hypothesis and variables: Prediction between experiment and results	Hypothesis is a clear, testable statement that provides an answer to the original question with an If... Then statement. Correct independent and dependent variables are clearly stated.	Hypothesis is written as an answer to the question, but needs a bit more clarity, or is not in an 'if...then' statement. Variables are correct, but need a bit more detail or clarity.	No connection between hypothesis and question. No clear way to prove or disprove hypothesis by performing experiment. Variables were not completely described or were incorrectly placed as dependent or independent.	Hypothesis was missing or was unrelated to the experiment. Did not mention dependent and independent variables.
Lab Work-Data Quality: Accurate measurement and labeling	All data was complete and accurately labeled with proper clear labels, calculations and units.	All data was complete and labelled. Some units and/or calculations may be missing, or data may be a bit unclear.	Data was incomplete. Some data was not labeled using proper units of measure.	Included little or no relevant data. Data was not labeled using proper units of measure.
Lab Work-Assessment: Identifies sources of error and effect on results	Identified possible sources of error. Explained how errors may have skewed data. Made a good connection between the data and the original hypothesis. Good thought about how experiment could be improved next time to increase how trustworthy it is.	Identified possible sources of error, explained how the data related to the original hypothesis. Could use more detail and explanation, but basic idea is there.	Incorrectly identified sources of error. Proposed modifications would not necessarily improve results or trustworthiness.	Did not identify sources of error. Comments and suggested changes not relevant to the experiment.

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Lab Work-Conclusion: Summarizes findings and compares actual results with expected results	Summarized question and hypothesis. Results were discussed in detail and compared to the original question - was the original hypothesis supported? If no, why not? What is another possible hypothesis that could be tried?	Problem and procedure was summarized briefly. Results were stated and briefly connected to the original hypothesis. A good start, but more detail is needed.	Problem was restated. Conclusions were written very simply with no detail. No clear connection between conclusions and hypothesis.	Original problem was not restated. Findings were not summarized. Conclusions were not relevant to hypothesis.

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____ My lab report is neat, complete, full sentences clearly written, and shows pride and effort.

____ My lab report describes the setup and procedure I followed during my experiment.

____ I have a list of materials used in my experiment.

____ I proposed a hypothesis that can be tested by my experiment.

____ My lab report includes accurately labeled and recorded data from my experiment.

____ My lab report discusses possible sources of error.

____ My lab report summarizes the experiment and relates findings to my hypothesis.