

Experiment 4: Mass, Volume, and Density

Category	4	3	2	1
Introduction one very concise paragraph that includes each of the points printed out and attached to the front of lab	The introduction to the lab contains all necessary background information, definitions, and relationships to be discussed	The introduction to the lab contains most of the necessary background information, definitions, and relationships to be discussed.	The introduction to the lab is limited in background information, definitions, and relationships to be discussed.	The introduction to the lab is missing or contains little or no useful or relevant information.
Data	Professional looking and accurate representation of the data in tables	Accurate representation of the data in tables and/or graphs.	Accurate representation of the data in written form, but no tables are presented.	Data are not shown OR are inaccurate.
Results	All calculations are shown and the results are correct and labeled appropriately.	Some calculations are shown and the results are correct and labeled appropriately.	Some calculations are shown and the results labeled appropriately.	Results are inaccurate or mislabeled.
Graphs	Professional looking and correctly contain all of the required components: title, labels, appropriate scale, trendline, equation for trendline.	Contains all of the required components: title, labels, appropriate scale, trendline, equation for trendline.	Missing one required component or provided components are inaccurate.	Missing two required components or provided components are grossly inaccurate.
Conclusion	Conclusion includes possible sources of error, and what was learned from the experiment.	Conclusion includes what was learned from the experiment	Conclusion not based on experimental evidence	Conclusion shows little effort and reflection.
Questions	Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.	Answers illustrate an accurate understanding of most scientific concepts underlying the lab.	Answers illustrate a limited understanding of scientific concepts underlying the lab.	Answers illustrate inaccurate understanding of scientific concepts underlying the lab.
Spelling, Punctuation, Grammar	One or fewer errors in spelling, punctuation and grammar in the report.	Two or three errors in spelling, punctuation and grammar in the report.	Four errors in spelling, punctuation and grammar in the report.	More than 4 errors in spelling, punctuation and grammar in the report.