

CHS Chemistry Lab Report Rubric (Updated 2015)

	Advanced (4)	Proficient (3)	Emerging (2)	Novice (1)	Unsatisfactory (0)
Introduction	A clear purpose is provided and accompanied by a well thought-out hypothesis directly related to the purpose. The background information demonstrates a thorough understanding of the material needed to complete the lab.	A clear purpose is provided and accompanied by a thoughtful hypothesis related to the purpose. The background adequately prepares the reader with the information they will need to know to understand the lab.	A purpose is provided and accompanied by a hypothesis, though they may not be exactly what the lab was trying to achieve. The background information is related to the topic but does not completely explain the information.	A very general purpose is provided and accompanied by a hypothesis, though it is clear that the actual purpose of the lab has been missed. The background information does not help the reader in understanding the lab report.	No hypothesis, purpose, or background information
Safety	Listed before the procedure. As detailed as possible with respect to the chemicals and equipment used.	Listed before the procedure, the basic safety precautions are mentioned but not detailed.	Listed but not before the procedure, basic safety precautions are mentioned but not detailed.	Unorganized mention of safety precautions. May only include "General Laboratory Safety" when much more is required.	No safety precautions listed.
Materials	Listed after the safety and before the procedure, the list is detailed including amounts (where applicable) with proper units.	Listed after the safety and before the procedure, the list is detailed but some minor information is missing.	Listed, but not between the safety and procedure. Basic information is present.	Unorganized list of materials with basic information present.	No materials listed
Procedure	A clear and extremely detailed, yet not wordy, procedure is present. It explicitly states how to perform the reaction to recreate the exact conditions.	A clear procedure is provided and adequately details how to recreate the experiment.	A procedure is present, but it takes inferring some steps to properly recreate the experiment.	A very general procedure is present, and it takes a lot of previous knowledge of the experiment to recreate it.	No procedure listed
Data and Results	Data is neatly organized with all proper units listed. The data is easy to read and interpret.	The data is present in a table, but there is some organizational errors or not all numbers are clearly marked with proper units causing some difficulty in reading and interpreting the data.	Data is present with an attempt of organization but there are many errors and/or missing units making it very difficult to read and interpret.	Data is present, but there is no attempt at organization and there are many errors and/or missing units making it very difficult to read and interpret.	No data table or observations included
Analysis and Discussion *Includes all mathematical calculations performed.	An analysis* is present and is very clearly written demonstrating an in-depth knowledge of the experiment and its causes. Not only does the analysis discuss the potential errors in the lab, it also provides possible solutions.	An analysis is present and remains focused on the data. It provides a well thought out explanation of the results and discusses the potential errors in the lab.	An analysis is present but it is missing key components to explain the results. It may also not discuss the potential errors in the lab.	An analysis is present but is missing key components to explain the results and does not discuss the potential errors in the lab. It is also unrelated to the purpose, distracting from the understanding of the lab.	No analysis of the data is provided
Conclusion	A conclusion is present and eloquently summarizes the lab directly addressing the purpose and hypothesis.	A conclusion is present and adequately provides a brief summary of the lab. It also addresses the purpose and hypothesis.	A conclusion is present, but instead of summarizing the experiment it more just restates the data. It may not address the purpose or hypothesis.	A conclusion is present but is unfocused and unrelated to the main purpose of the lab and does not address the hypothesis.	No conclusion to the lab is present
Lab Questions (optional)	Non-conclusion laboratory questions answered fully in a numerical list or a narrative (teacher's discretion). The answers provided are correct.	Full answers in the method directed by the teacher but most, not all, of the answers are correct.	Method of response is not followed but /(or) more than 50% of the response(s) is correct.	Method of response is not followed and/or most of the response is incorrect but not all of it.	No questions answered or none of the responses are correct
References and Citations (optional)	References are properly formatted at the end of the report. Citations are included where necessary and in the proper format within the body of the report.	Minor errors in the references or citations within the report.	References listed in the proper format but no citations present. Could also have more prominent errors in the reference section and citations.	Major errors in the reference section (such as listing just an URL as a "source") with improper or missing citations.	No references and no citations.