

## QSR Level 5 Science Rubric: Formal Lab Report

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Proficiency		Name			
<input type="checkbox"/> Proficient <input type="checkbox"/> Not proficient		Name			
Student must meet proficiency in all categories					
		Assignment Title			
		Date		Subject	
Teachers: Circle proficient or not proficient for each category and <u>underline</u> or highlight the not proficient indicators in each category				Teacher	
Introduction and Purpose		Supplies, Equipment, and Procedure		Observations, Data, and Calculations	
Proficient	Not Proficient	Proficient	Not Proficient	Proficient	Not Proficient
<ul style="list-style-type: none"> <li>States a complete purpose and/or hypothesis with explanation</li> <li>Provides background information for all key concepts and processes involved</li> </ul>		<ul style="list-style-type: none"> <li>Includes a complete list of equipment and supplies including measuring tools, if used</li> <li>Identifies variables (controlled, responding and manipulated) when appropriate</li> <li>Includes appropriate bullets, numbers, headers and paragraphs</li> <li>Procedure is written correctly:                             <ul style="list-style-type: none"> <li>a. Summarizes the procedure when replicating a Teacher-Designed experiment</li> <li style="text-align: center;"><b>or</b></li> <li>b. Clearly explains the steps in a Student-Designed experiment so that the experiment can be replicated</li> </ul> </li> </ul>		<p><b>Observations and Data:</b></p> <ul style="list-style-type: none"> <li>Displays observations and data appropriately in charts and graphs</li> <li>Records measurements with correct precision</li> <li>Labels all measurements with correct units</li> <li>Provides adequate detail in diagrams or sketches of observations</li> </ul> <p><b>Calculations (Physical: required, Life: when appropriate):</b></p> <ul style="list-style-type: none"> <li>Uses correct equations</li> <li>Calculates accurately</li> <li>Shows each step of a calculation or algebraic manipulation with correct units</li> </ul>	
Conclusion		Analysis		Presentation	
Proficient	Not Proficient	Proficient	Not Proficient	Proficient	Not Proficient
<ul style="list-style-type: none"> <li>Correctly interprets and summarizes all observations, data, and calculations included in the lab</li> <li>Links conclusions directly to the purpose and/or hypothesis</li> <li>Cites data and/or calculations to justify conclusions</li> </ul>		<ul style="list-style-type: none"> <li>Discusses potential sources of error and how they may have influenced the results</li> <li>When appropriate, mathematical models are used to accurately evaluate validity of results (e.g. % yield, % error, or % difference)</li> <li>Addresses number of trials and how it affects validity of results</li> <li>Analyzes experimental design and offers suggestions for improvement when appropriate</li> <li>Identifies unanswered questions and offers suggestions for future research, when appropriate</li> </ul>		<ul style="list-style-type: none"> <li>This presentation (spelling, punctuation, capitalization, correct grammar and usage, and appropriate sentence structure) does not distract from the communication of the ideas.</li> <li>Logical paragraphing</li> <li>Appropriate voice</li> <li>Appropriately displays scientific symbols, expressions and equations</li> <li>Includes a title and appropriate headings</li> </ul>	
<b>Teacher Comments:</b>					
				<b>Proficiency</b> <input type="checkbox"/> Proficient <input type="checkbox"/> Not Proficient	