

QSR Level 5 Science Rubric: Formal Lab Report

QSR Level 5 Science Rubric: Formal Lab Report					
Proficiency					
<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"> • States a complete purpose and/or hypothesis with explanation • Provides background information for all key concepts and processes involved 		<ul style="list-style-type: none"> • Includes a complete list of equipment and supplies including measuring tools, if used • Identifies variables (controlled, responding and manipulated) when appropriate • Includes appropriate bullets, numbers, headers and paragraphs • Procedure is written correctly: <ul style="list-style-type: none"> a. Summarizes the procedure when replicating a Teacher-Designed experiment <li style="text-align: center;">or b. Clearly explains the steps in a Student-Designed experiment so that the experiment can be replicated 		<p>Observations and Data:</p> <ul style="list-style-type: none"> • Displays observations and data appropriately in charts and graphs • Records measurements with correct precision • Labels all measurements with correct units • Provides adequate detail in diagrams or sketches of observations <p>Calculations (Physical: required, Life: when appropriate):</p> <ul style="list-style-type: none"> • Uses correct equations • Calculates accurately • Shows each step of a calculation or algebraic manipulation with correct units 	
Conclusion		Analysis		Presentation	
Proficient	Not Proficient	Proficient	Not Proficient	Proficient	Not Proficient
<ul style="list-style-type: none"> • Correctly interprets and summarizes all observations, data, and calculations included in the lab • Links conclusions directly to the purpose and/or hypothesis • Cites data and/or calculations to justify conclusions 		<ul style="list-style-type: none"> • Discusses potential sources of error and how they may have influenced the results • When appropriate, mathematical models are used to accurately evaluate validity of results (e.g. % yield, % error, or % difference) • Addresses number of trials and how it affects validity of results • Analyzes experimental design and offers suggestions for improvement when appropriate • Identifies unanswered questions and offers suggestions for future research, when appropriate 		<ul style="list-style-type: none"> • This presentation (spelling, punctuation, capitalization, correct grammar and usage, and appropriate sentence structure) does not distract from the communication of the ideas. • Logical paragraphing • Appropriate voice • Appropriately displays scientific symbols, expressions and equations • Includes a title and appropriate headings 	
<p>Teacher Comments:</p>					
				Proficiency <input type="checkbox"/> Proficient <input type="checkbox"/> Not Proficient	