

QSR Science Rubric: Formal Lab Report (template)

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Scale		Name		Assignment Title		Date		Subject		Science 7					
4 Strong 3.5 Between a 3 and 4 3 Developing 2.5 Between a 2 and 3 2 Emerging 1.5 Between 1 and 2		Name		Assignment Title		Date		Subject		Science 7					
		Teachers: Indicate the correct score by circling the correct number.						Teacher		Mr. Brewer					
		Introduction and Purpose					Supplies, Equipment, and Procedure					Observations, Data, and Calculations			
		4	3	2	1		4	3	2	1		4	3	2	1
<ul style="list-style-type: none"> States a complete purpose and/or hypothesis Provides background information and operational definitions for all key concepts and processes involved 					<ul style="list-style-type: none"> Includes a complete list of equipment and supplies Identifies dependent (responding) and independent (manipulated) variables when appropriate Includes appropriate bullets, numbers, headers and paragraphs <p>a. Summarizes the procedure in a concise, accurate fashion when replicating a previously designed experiment</p> <p style="text-align: center;">or</p> <p>b. Clearly explains the steps in a student-designed experiment so that the experiment can be replicated</p>					<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 Eliminates bias in both quantitative and qualitative data 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 Uses the correct number of significant digits 					
Analysis and Conclusions					Error Analysis					Conventions					
4	3	2	1		4	3	2	1		4	3	2	1		
<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 calculations to justify conclusions 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"> Accurately evaluates the validity of the results with appropriate mathematical methods (e.g. % yield, % error, or % difference) Discusses potential sources of error and how they may have influenced the results 					<ul style="list-style-type: none"> Correct spelling Accurate punctuation Correct capitalization Correct grammar and usage Appropriate sentence structure Logical paragraphing Third person, formal, academic voice Appropriately displays scientific symbols, expressions and equations Uses appropriate conventions when displaying graphs Includes a title and appropriate headings 					
Teacher Comments:															