

Inquiry Grading Rubric

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(adapted from rubric created by Ottumwa H.S. Science Department, Ottumwa, IA)			
	10	8	Not Yet
Problem Statement	The problem is appropriate, and stated in question form. The experimental variable is circled, and the dependent variable is underlined.	The problem is in question form. The experimental variable and the dependent variables are identified.	The problem statement is not in question form. The dependant and experimental variables are not identified.
Procedure	The procedure adequately tests the problem statement. The procedure is controlled, and only one aspect is varied. The instructions include multiple trials and are written in a step by step detailed form.	The procedure tests the problem statement. The procedure is controlled, and only one aspect is varied. The instructions are written in a step by step form.	The procedure does not adequately test the problem statement. The procedure is not controlled, and/or more than one aspect is varied. The instructions lack multiple trials and/ or are not written in a step by step detailed form.
Hypothesis	The hypothesis is specific and clearly predicts a relationship between the experimental variable and the dependent variable. The reasoning logically supports the prediction.	The hypothesis predicts a relationship between the experimental variable and the dependent variable. The reasoning supports the prediction.	The hypothesis is not specific and does not clearly predict a relationship between the experimental variable and the dependent variable. The reasoning does not support the prediction.
Data	The data collected are appropriate for the procedure. The data include detailed qualitative and quantitative observations. The data are complete, well organized, and clearly labeled.	The data collected are appropriate for the procedure. The data are mostly complete, organized, and labeled.	The data collected are inappropriate for the procedure. The data lack detailed qualitative and quantitative observations. The data are incomplete, poorly organized, and unlabeled.
Graph	The type of graph chosen is appropriate for the data. The data are graphed accurately and meet all graphing standards.	The data are graphed accurately and meet graphing standards.	The type of graph chosen is inappropriate for the data. The data are graphed inaccurately and do not meet graphing standards.
Analysis/Conclusions	The conclusion supports or disproves the hypothesis. The conclusion is accurate, clearly stated, and based on an analysis of the data. The relationship between the experimental and dependent variables is fully explained. Factors other than the experimental variable that may have influenced the results are discussed.	The conclusion supports or disproves the hypothesis. The conclusion is based on an analysis of the data. The relationship between the experimental and dependent variables is explained.	The conclusion has no relationship to the hypothesis. The conclusion is inaccurate, poorly stated, and not based on an analysis of the data. The relationship between the experimental and dependent variables is not explained. Factors other than the experimental variable that may have influenced the results are not discussed.
Total			

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