

Name _____

Title of Lab _____

NFHS Science Department Inquiry-Based Grading Rubric

	Self	Actual
PROBLEM DEFINITION <ul style="list-style-type: none"> • The problem and a testable hypothesis are stated clearly. Hypothesis reflects problem and rationale is provided. • The problem and a testable hypothesis are stated clearly. Hypothesis reflects problem. • The problem and a testable hypothesis are stated adequately. Hypothesis shows limited reflection of problem. • The problem and a testable hypothesis are poorly stated. • The statement of the problem is very limited or missing altogether. 		4 3 2 1 0
VARIABLE IDENTIFICATION <ul style="list-style-type: none"> • Clear and accurate identification of independent, dependent, and constant variables. • Clear and accurate identification of at least two variables. • Clear and accurate identification of at least one variable. • Identification of variables is missing or inaccurate. 		3 2 1 0
EXPERIMENTAL DESIGN <ul style="list-style-type: none"> • The experimental design matches the stated problem. The procedures are clear, complete and replicable. A control is included when appropriate. • The experimental design generally matches the stated problem. Procedures are generally complete. Minor modifications or clarifications may be needed. A control is not included when appropriate. • The experimental design matches the stated problem to some extent. Procedures are incomplete. Major modifications or clarifications may be needed. • The experimental design does not match the stated problem, is very incomplete or missing. 		3 2 1 0
DATA PRESENTATION <ul style="list-style-type: none"> • Data are well organized and presented in an appropriate data table and graph including title, labels and units of measure. • Data are organized and presented in an appropriate data table and graph minor omissions. • Data table and graph are poorly organized or one has been omitted. • Data are very poorly organized or presented in an inappropriate manner or missing altogether. 		3 2 1 0
CONCLUSIONS <ul style="list-style-type: none"> • Conclusions are related to the stated problem and hypothesis and supported by data and scientific concepts. • Conclusions are related to the stated problem and hypothesis and supported by data. • Conclusions are generally related to the stated problem and hypothesis and supported by data to a limited extent. Minor errors in interpretation of results may be present. • Conclusions are related to the stated problem and poorly supported by data to a limited extent. Major errors in interpretation of results may be present. • Conclusions are not related to the stated problem, not supported by data or are missing. 		4 3 2 1 0
VALIDITY <ul style="list-style-type: none"> • Validity is discussed in terms of what was done and could have been done to make the experiment more valid. • Discussion of validity of conclusion is limited. • There is little discussion of validity of conclusions. • There is no discussion of validity of conclusions. 		3 2 1 0
REAL-LIFE APPLICATION <ul style="list-style-type: none"> • Connection is made and clearly explained • Connection is made but explanation is limited. • There is little discussion of connection and/or explanation. • There is no Real-Life connection made. 		3 2 1 0
QUESTIONS AND CALCULATIONS (Total possible points: _____)		

Total = _____