

Name: _____

Period _____

Inquiry Field Study Scoring Rubric

	Not Proficient	Proficient	Exceeds
Scientific Planning (WE):	Report is not complete or missing some elements listed in proficient.	<p><i>Includes most of the following:</i></p> <ul style="list-style-type: none"> • Appropriate tools/techniques are used to gather data. • Variables and controls are identified. • Question is researchable and testable in allotted time. 	<p><i>Meets plus most of the following:</i></p> <ul style="list-style-type: none"> • Background illustrates the context of the lab. • Several appropriate constants listed. • At least one external citation used in background. <p><i>Procedure:</i></p> <ul style="list-style-type: none"> • Detailed and concise
Data Collection & Analysis:	Report is not complete or missing some elements listed in proficient.	<p><i>Includes most of the following:</i></p> <ul style="list-style-type: none"> • Type of graph and/or table is appropriate for data • Labeling of graph or table is correct (axis, units, and title) • Conclusion addresses original question or hypothesis using data 	<p><i>Meets plus most of the following:</i></p> <ul style="list-style-type: none"> • Calculations are used when appropriate (mode, average, error) • Conclusion discusses limitations and errors (individual and procedural) and suggestions are made to improve and correct lab • Applies data and conclusions to other class content or real life examples by using additional research
Application of Science:	Report is not complete or missing some elements listed in proficient.	<p><i>Includes most of the following:</i></p> <ul style="list-style-type: none"> • Explains how technology aided the procedure <p>OR</p> <ul style="list-style-type: none"> • Apply related concepts to topics in the news, scientific community, or your life. 	<p><i>Meets plus most of the following:</i></p> <ul style="list-style-type: none"> • Cites specific examples of other areas in science or current events that this topic relates to; at least one citation used. • Use specific examples of how collaboration helped to collect data or form conclusions. <p>OR</p> <ul style="list-style-type: none"> • Suggests future uses of technology applicable to experiment/study

<p>Communication:</p>	<p>Poster is not complete or missing some elements listed in proficient.</p>	<p>Includes most of the following:</p> <ul style="list-style-type: none"> • Testable and appropriate question, hypothesis, procedure, results, data table, graph • Limited grammatical errors and conventions • Uses scientific language (avoid the use of pronouns like I, you, me, we, our, etc). and is concise but detailed 	<p>Includes most of the following:</p> <ul style="list-style-type: none"> • Discussion of results fully connects findings or implications to class concepts or real world events. • At least one external citation. • Appropriate scientific vocabulary used extensively and accurately
<p>Work Ethic: Project Work Time</p>	<p>Missing elements listed in proficient and/or jeopardizes safety and/or not completed on time</p>	<p>Includes most of the following:</p> <ul style="list-style-type: none"> • Student is on task and works consistently to complete lab during allotted time • Student leaves lab area clean and prepared for next class • Project is completed on time 	<p>Includes one of the following:</p> <ul style="list-style-type: none"> • Student helps to clean common areas. • Student assists other students when appropriate • Student goes above and beyond to connect findings or use appropriate techniques.
<p>Work Ethic: Symposium</p>	<p>Missing elements listed in proficient and/or poster is not presented.</p>	<p>Includes most of the following:</p> <ul style="list-style-type: none"> • Poster is presented and audience is engaged. • Questions are asked of fellow presenters. 	<p>Includes most of the following:</p> <ul style="list-style-type: none"> • Proposes question/experiment to further research question of at least two other groups • Questions and/or critiques from audience are addressed and responded too adequately