

### BIDDI Investigation Rubric

<b>Category</b>	<b>Excellent (4)</b>	<b>Very Good (3)</b>	<b>Good (2)</b>	<b>Not Acceptable (1)</b>
<b>Investigation Design</b>	Investigation design to address the essential question is a well-constructed test of the stated hypothesis	Investigation design to address the essential question is adequate to test the hypothesis, but leaves some unanswered questions	Investigation design to address the essential question is relevant to the hypothesis, but is not a complete test	Investigation design to address the essential question is not relevant to the hypothesis. Try again
<b>Hypothesis</b>	Hypothesis is well formed and explained	The hypothesis is formed but not well explained.	The hypothesis is not well formed or explained	The hypothesis is missing
<b>Procedures</b>	Procedures are listed in clear steps. Each step is numbered and includes a complete sentence	Procedures are listed in a logical order, but steps are not numbered and/or are not in complete sentences	Procedures are listed but are not in a logical order, or are difficult to follow.	Procedures do not accurately list the steps of the investigation
<b>Materials</b>	All materials and their use and setup for the investigation are clearly and accurately described	Almost all materials and their use and setup for the investigation are clearly and accurately described	Most of the materials and their use and setup for the investigation are clearly and accurately described	Many materials and their use and setup for the investigation are described inaccurately OR not at all
<b>Scientific Concepts</b>	Debrief discussion illustrates an accurate and thorough understanding of scientific concepts underlying the investigation	Debrief discussion illustrates an accurate understanding of most scientific concepts underlying the investigation.	Debrief discussion illustrates a limited understanding of scientific concepts underlying the investigation	Debrief discussion illustrates an inaccurate understanding of scientific concepts underlying the investigation
<b>Measurements</b>	Methods and procedures for measurements are	Methods and procedures for	Methods and procedures for measurements	Methods and procedures for measurements are not

	accurate and defensible	measurements demonstrate somewhat accurate results that are defensible	demonstrate somewhat accurate results that are not clearly defensible	accurate or defensible
<b>Analysis</b>	The relationships that exist are discussed and trends/patterns logically analyzed. Predictions are made about possible changes that would occur if the design of the investigation were changed	The relationships that exist are discussed and trends/patterns logically analyzed. No predictions are shared	The relationships that exist are discussed but no patterns, trends, or predictions are made based on the data	The relationships that exist are not discussed
<b>Conclusion</b>	Conclusion includes whether the findings supported the hypothesis, evidence was provided to support the finding, possible sources of error were discussed, and what was learned from the investigation	Conclusion includes whether the findings supported the hypothesis and what was learned from the investigation	Conclusion includes what was learned from the investigation but does not demonstrate how they support findings and/or the hypothesis	No conclusion was included OR students show little effort and/or reflection
<b>Summary</b>	Summary describes the skills learned, the information gained, and some future applications to real life situations.	Summary describes the information gained and a possible application to a real life situation.	Summary describes the information gained.	No summary was included.
<b>Safety</b>	Investigation is carried out with full attention to	Investigation is generally carried out	Investigation is carried out with some attention	Safety procedures were ignored and/or some aspect

	<p>relevant safety procedures. The set-up, investigation, and tear-down posed no safety threat to any individual —no procedures need review</p>	<p>with attention to relevant safety procedures. The set-up, investigation, and tear-down posed no safety threat, However one safety procedure needs to be reviewed</p>	<p>to relevant safety procedures. The set-up, investigation, and tear-down posed little safety threat, however several safety procedures need to be reviewed</p>	<p>of the investigation posed a threat to the safety of the students — all safety issues need review</p>
<p><b>Total Points</b> _____</p>	<p>_____ Pts.</p>	<p>_____ Pts.</p>	<p>_____ Pts.</p>	<p>_____ Pts.</p>