



### Science Rubric:

*Students will demonstrate a working knowledge of scientific principles and concepts and be able to apply them to daily situations.*

	Advanced	Acceptable	Needs Improvement	Minimally or Not Evident
Criteria:	4	3	2	1-0
<b>1. Understands</b> the scientific method, recognizing the potential for uncertainty in the scientific inquiry.	Demonstrates a thorough understanding of the scientific method, clearly articulating each step and how uncertainty is inherent in scientific inquiry. Appropriately identifies limitations or sources of error in experiments.	Accurately describes the scientific method, demonstrating an understanding of how uncertainty can impact results, but may overlook some nuances or limitations.	Describes the scientific method, but may have a limited understanding of uncertainty or miss key aspects of the process (e.g., hypothesis, controls).	Demonstrates minimal or incomplete understanding of the scientific method and/or the role of uncertainty in inquiry.
<b>2. Applies</b> basic field and laboratory skills used for collecting and analyzing data according to the particular discipline.	Demonstrates excellent proficiency in using field and laboratory techniques. Accurately collects, analyzes, and interprets data, applying discipline-specific methods and tools effectively.	Demonstrates competent use of field and laboratory techniques. Collects and analyzes data correctly with minimal errors, applying discipline-specific methods appropriately.	Demonstrates basic field and laboratory skills but may have significant errors or inconsistencies in data collection or analysis. Has some difficulty applying discipline-specific methods.	Struggles with field and laboratory techniques, with frequent errors in data collection and analysis. Limited or incorrect application of discipline-specific methods.
<b>3. Exhibits</b> a working knowledge of scientific principles and concepts and applies them to daily situations.	Makes accurate and insightful connections between science and real-world issues.	Makes clear connections to everyday situations and shows awareness of how science influences daily life.	Struggles to apply scientific principles to everyday situations. Makes limited connections between science and real-world applications.	Exhibits minimal understanding of scientific principles and fails to apply them to daily situations or real-world contexts.