

Grade 5/6 Inquiry Rubric

Journal Entries

Standard 1.17 - Notation and Representation: Express ideas in a variety of ways (e.g. words, numbers, symbols, pictures, charts, tables, diagrams, models)

Standard 7.1, 7.2 Scientific Inquiry and the Scientific Method

In Journal entries:

Criteria	Meets Standard	Nearly Meets Standard	Beginning to meet Standard
Scientific Questioning	Student identifies variables and distinguishes between observational, experimental and research question	Student identifies a variable but cannot distinguish between observational, experimental and research question.	Student cannot identify a variable or distinguish between observational, experimental and research questions.
Predicting and hypothesizing	Uses logical inferences to predict what may happen or be observed or provides a reasonable hypothesis related to evidence.	Uses logic to make a prediction but does not relate it to evidence	Not able to generate a hypothesis or prediction
Experimental Design	Student can develop a fair test that includes: materials list sequential steps variables. multiple trials	Student can develop a fair test that includes some of the elements of a fair test:	Student can not develop a fair test

<p>Investigation</p>	<p>Records observations of similarities and differences</p> <p>Chooses appropriate measurements and measures accurately Draws scientifically with an appropriate perspective and with as many details as possible Uses correct labels</p>	<p>Records observations but not always similarities and differences.</p> <p>Chooses appropriate measures but may not always measure accurately. Draws scientifically with some details Does not label correctly</p>	<p>Records some observations</p> <p>Does not choose appropriate measurements Draws scientifically but with few details. Does not label correctly</p>
<p>Analysis and Conclusion</p>	<p>Represents data using graphs, charts, and tables.</p> <p>Analyzes data based on evidence and results of the investigation.</p> <p>Explains data from experiment consistently using scientific terminology. Uses resources to support explanation. Identifies problems /flaws with the experimental design</p>	<p>Represents data using graphs, charts and tables, but may not have chosen the appropriate representation.</p> <p>Analyzes data based on evidence and results of the investigation.</p> <p>Explains data from the experiment. Uses some scientific terminology. Uses resources to support explanation. Cannot identify problems/flaws with the experimental design.</p>	<p>Does not represent data in an organized manner.</p> <p>Analyzes data but does not base analysis on results/evidence from investigation Explains data from the experiment but does not use scientific terminology. Does not use resources to support explanation. Cannot identify problems/flaws with the experimental design</p>