

Experimental Skills Rubric

Course: _____ Team Members: _____
 Date: _____ Evaluator: _____ Overall score: ____/21

Objective	3	2	1	Score
Research Question (A question that explains what was studied.)	Accurately states research question: includes cause and effect (x and y), and adequate detail to investigate project.	Accurately states research question; but lacks either cause or effect (x and y) or enough detail to investigate project.	States a research question; but inaccurate, incomplete, or lacks enough detail.	
Science Content Statements (Scientific description of the project done through literary research.)	Accurately states science content that seems a grade-appropriate effort at describing the topic and research question.	Accurately states some science content related to the research question; but incomplete.	States some science content; but inaccurate, incomplete, or not related to the research question.	
Predictions and Hypothesis (Lists the three possible outcomes of the experiment; the hypothesis is the one that is most likely to occur.)	Accurately states three predictions that include cause and effect (x and y); and hypothesis stated.	Accurately states three predictions, but lacks clear cause and effect (x and y); or no hypothesis given.	States one or more predictions; but inaccurate, or incomplete, or lacks enough detail to follow.	
Set-Up Conditions (List all of the things that were kept constant.)	Lists all necessary constants with good detail and description of set-up.	Lists all constants; lacks detail or description of how the conditions are set up.	Lists some constants; some inaccurate or incomplete.	
Data Collection (Chart with the data that was measured in the experiment.)	Proper chart shown with complete data; trials and average; all units, labels, and detail present.	Proper chart shown with complete data and average; missing some units, labels or few trials.	Most data shown; some data missing, or not organized in chart form, or missing units or average.	
Real World Uses (Ways that the information might be used.)	States three or more possible uses related to the research question; with good detail	States several possible uses with some detail; or more uses with incomplete detail, or uses are not all related to research topic.	States one or more uses; but incomplete, inaccurate, or lacks details.	
Conclusion (Did the data support, or fail to support the hypothesis.)	Accurately states whether the data supports or fails to support the hypothesis.	Conclusion statement present and accurate; but incomplete.	Conclusion statement present but inaccurate or incomplete.	