

Science Showcase Rubric

(Grades K-2-class ONLY projects; Grades 3-5 Small group or Individual projects ONLY)

Using the Rubric: Begin in the left hand column (Required Elements). Mark each category by circling the description that best matches the project, and record that numeric score in the score box. Multiply each score with its weighting factor (wt column) to get a final score. Total the final scores to the bottom.

Required Elements	0	1 Point	2 Points	3 Points	Score	Wt	Final Score
Research Question (A question that explains what was studied.)	E L E M E N T N O T P R E S E N T O R N O T S C O R E A B L E	States a research question; but inaccurate, incomplete, or lacks enough detail.	Accurately states research question; but lacks either cause or effect (x or y) or enough detail to investigate project.	Accurately states research question: includes cause and effect (x and y), and provides ample detail to investigate project.		x 2	
Predictions (Lists the three possible outcomes of the experiment; the one that is most likely to occur is marked.)		States one or more predictions; but inaccurate, or incomplete, or lacks enough detail to follow.	Accurately states three predictions, but lacks clear cause and effect (x and y); or no prediction that is most likely to occur is marked.	Accurately states three predictions that include cause and effect (x and y); and a prediction that is most likely to occur is marked.		x 1	
Independent Variable (Describes the one thing that the students changed.)		States what will be changed but with inaccurate or incomplete details.	Accurately states what will be changed but lacks details (tools, quantities, units, method).	Accurately states what will be changed with enough detail to assure accuracy.		x 2	
Dependent Variable (Describes what the students measured.)		States what will be measured but inaccurate or incomplete details.	Accurately states what will be measured but lacks details (tools, units, how).	Accurately states what will be measured with enough detail to assure accuracy.		x 2	
Set-Up Conditions (List all of the things that were kept constant.)		Lists some constants; some inaccurate or incomplete.	Lists all constants; lacks detail or description of how the conditions are set up.	Lists all necessary constants with good detail and description of set-up.		x 3	
Materials List (List of all of the items that were used to complete the experiment.)		Lists partial, confusing, or inaccurate materials; or lacks quantities or measurements.	Lists most materials used; lacks some detail about type, quantities or measurements.	Lists complete set of materials; sufficient detail to duplicate directions.		x 2	
Directions (List of steps in order of exactly what was done.)		Gives partial, confusing or non-sequential directions; or lacks enough detail to follow.	Gives most steps in the procedure; lacks proper sequence or enough detail to follow.	Gives complete list of directions with detail such that the experiment could be duplicated by another.		x 3	
Data Collection (Chart with the data that was measured in the experiment.)		Most data shown; some data missing, or not organized in chart form, or missing units or average.	Proper chart shown with complete data and average; missing some units, labels or fewer than 10 trials.	Proper chart shown with complete data; 10 or more trials and average; all units, labels, and detail present.		x 3	
Graph (Mathematical picture of the data.)		Graph shown; some elements incomplete or inaccurate.	Proper graph shown; most elements complete and accurate.	Proper graph shown; all elements complete and accurate.		x 3	
Results (Tells what happened in the data using mathematical language.)		Lists some results; some statements inaccurate or incomplete.	Lists most results; most statements accurate and complete.	Lists all results accurately and with detail.		x 2	
Explanation (Summary of findings that evaluate the experimental procedure and/or possibilities for further study.)	Explanation statement present but inaccurate or incomplete.	Explanation statement present and accurate; but incomplete.	Explanation is accurate and with specific detail.		x 2		
Real World Uses Relating to Research (Ways that the information might be used.)	States one or more uses; but incomplete, inaccurate, or lacks details.	States several possible uses with some detail; or more uses with incomplete detail, or uses are not all related to research topic.	States three or more possible uses related to the research question; with good detail.		x 2		
Science Journal		Some elements are missing, incomplete or inaccurate.	All elements present; most complete or accurate; dated narrative present.	All elements present, accurate, good detail and few errors; dated narrative present.		x 2	
Display Board		Some elements are missing, incomplete or inaccurate.	All elements present, most complete or accurate.	All elements present and accurate with good detail and few errors.		X 3	

Comments:

Total Score

/96