Field Study (without Variables) Rubric Grades 3-5

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

Required Elements	0	1 Point	2 Points	Weight	Scor
cience Background Research (Students write a ummary of science content related to their project juilding towards development of a testable juestion.)		Summary of science content is present, but components are inaccurate or note present	Summary of science content is accurate and related to topic. Summary is based on a wondering that led to a testable question	x 5	
esearch Question (A question that explains what was tudied)		States a testable question; but inaccurate, incomplete, or lacks enough detail	Accurately states testable question, includes cause and effect (x and y), and provides ample detail to investigate project	x 4	
rediction (An educated guess based on information ou already know; states the most likely outcome; llso known as a hypothesis)	3.E	Restates the most likely outcome but lacks details and/or reasoning for making the prediction. The 'Ifthenbecause" is missing	Restates the most likely outcome using the "Ifthenbecause" format; includes details and reasoning for making the prediction	x 3	
Constants/Set-Up Conditions (A list of factors that do ot change in the set-up and as trials are conducted luring your field study – i.e. making observations at ne same time each day)	SCORABLE	Identifies the set of data that will be measured under normal conditions but is inaccurate	Accurately states the set of data that will be measured under normal conditions	x 4	
Aderials List (Detailed, bulleted list of all items that vere used to complete the field study – think recipe - e. binoculars, hand lens, etc. Includes quantities and neasurements)	NOT SC	Lists partial, confusing, or inaccurate materials; or lacks quantities or measurements	Lists complete set of materials and sufficient detail to duplicate directions. (quantities, metric measurements, tools, etc.)	x 4	
rocedures (Detailed, numbered list of steps in order if exactly what was done; enough details so that it an be duplicated – think recipe)	OR	Gives partial, confusing, or non-sequential directions or lacks enough detail to follow	Gives complete list of procedures with detail such that the field study could be duplicated; uses metric measurements and includes safety considerations)	x 4	
nata Collection (Observations and accurate data able; includes average of each data set)	PRESENT	Most data shown; some data missing, or not organized in chart form, or missing units or averages	Proper chart shown with complete data; 10 or more trials and averages; all units, labels, and detail present	x 4	
Graph (Mathematical picture of the averaged data ets)		Graph shown; some elements incomplete or inaccurate	Proper graph shown; all elements complete and accurate	x 4	
esults (Tells what happened with the data using nathematical language)	NOT	Lists some results; some statements inaccurate or incomplete	Lists at least three mathematical results accurately and with detail	x 3	
xplanation (Summary of findings that evaluate the experimental procedure and provides scientific eason that supports field study findings; evisits/addresses prediction)	ELEMENT N	Explanation statement present but inaccurate or incomplete	Explanation is accurate and provides specific scientific detail related to field study	x 4	
eal World Uses relating to Research (Ways the nformation might be used outside of the field study)	ELEA	States one or more uses but is incomplete, inaccurate, or lacks details	States one or more possible uses (outside of the field study) related to the research question with accuracy and complete detail	x 3	
cience Journal (Record of directions, observations and data collected throughout the process; information detailed enough to be replicated accurately)		Some elements are missing, incomplete or inaccurate	All elements present, accurate, good detail and few errors; dated narrative present	x 4	
risplay Board or other Presentation Format (Projects bresented in a digital format must be converted to a lisplay board if chosen to represent school in the postrict Science Showcase.)		Some elements are missing, incomplete or inaccurate	All elements present and accurate with good detail and few errors	x 4	