Science Investigation Rubric

Hawks Rise Elementary STEAM Fair

Standard	Beginning 0-1 Point	Developing 2 Points	Accomplished 3-4 Points	Exemplary 5 points	Score
Variables	Missing, unclear, or not understood.	More than one manipulated (changed) variable; does not include manipulated (changed) and controlled variables; variables not used correctly; variables not clear or understood.	Investigation includes some variables; variables are used correctly.	Experiment includes identified manipulated (changed) and controlled variables.	
Materials, Procedures/ Methods	Missing; Step by step procedures are not included.	Materials list is missing 3 or more items; step by step instructions are vague.	Materials list is missing 1-2 items; step by step instructions are included.	Materials list is complete and includes a list of tools for gathering data. Step by step instructions are included and are clear enough for others to repeat the investigation.	
Data/Trials	Missing or not clear.	Data shows only 1 trial.	Data shows some trials, but no visual representation.	Project uses an appropriate number of trials, that are recorded, with average recorded; data presented in an appropriate graph that can be read easily.	1 3 5 1 3 5 - 1 3 -
Conclusion with Evidence	Missing	Conclusion presented with no reference to hypothesis.	Conclusion presented with hypothesis (supported or not supported) and evidence.	The conclusion includes claims, evidence, and reasoning, with a real world application.	
Reflection	Missing	Shows vague evidence of analysis and evaluation.	Shows some evidence of analysis and evaluation.	Complete with evaluation of the investigations on what was successful and what a scientist would do differently next time.	part (1)
Visual Presentation	Missing; illegible; messy; too incomplete to understand.	Some categories missing; unorganized (process does not flow).	All categories represented; well organized; correctly communicated intent; on stand alone backboard.	Project is visually appealing and neatly presented (written or typed); project is on backboard that stands by itself; grammar/spelling are appropriate for age.	W.L.
				Total (out of 35)	