

		Rate each statement on a scale of 0-4:		
		4 = Exceeds Expectations		
		3 = Proficient		
		2 = Developing		
		1 = Limited Evidence		
		0 = No Evidence		
	NextGen Science Practices	Statements	Key Words	Score
Investigation	Asking Questions and Defining Problems	The student(s) posed a question or defined a problem that could be investigated using scientific experimentation or engineering design principles.	Testable Question/Problem	
	Planning and Carrying out Investigations	The investigation connects to, builds or expands on previous work (the student's or others') or observations and provides appropriate references .	Connection to Past, Appropriate References	
		Scientific experiments or engineering procedures were designed to address the question or problem using appropriate materials and methodology	Design Addresses Question/Problem Appropriate Methods	
		Scientific experiments or engineering procedures were designed using defined variables or criteria and constraints as needed, and were evident in the testing.	Defined Variables or Criteria	
		Testing and replications of the experiment or design (test, retest, redesign) were evident and appropriate for the context and grade level of the project.	Replications or Redesigns	
Sensemaking (analyzing & interpreting, making sense of the data)	Developing & Using Models	Data were generated, predicted, and/or described using methods, processes, or systems appropriate for the context and grade level of the project.	Appropriate Data Generation	
	Analyzing & interpreting Data	Data were analyzed using concepts of statistics and probability , appropriate for the grade level of the project, to make valid claims or problem solutions.	Data Analysis, Valid Claims	
	Using Mathematical and Computational Thinking	Consistency of measurements, limitations of experiments and/or data analysis, and the impact of new data from subsequent experiments on a previous conclusion or solution were considered.	Data Collection Consistency, Limitations, Impact of New Data	
	Constructing Explanations & Designing Solutions	Conclusions clearly described the outcome of the scientific experiments or engineering design process, and suggested broader implications for their project outcomes and/or future studies to expand or improve the project.	Clear Conclusion based on outcomes, Implication & Future Study	
		The student(s) referenced evidence from background sources and the project's data, and had sound reasoning and data to support the explanations or conclusions.	Conclusion links to evidence, Sound Reasoning	
Critiquing (i.e. Presentation & Board)	Obtaining, Evaluating, and Communicating Information	The project board provided sufficient information (background, methods, results, conclusions) and was organized in a manner to aid the presentation and discussion of the project.	Organized & Useful Project Board	
		The student(s) communicated an understanding of scientific or technical information or ideas appropriate for the context and grade level of the project.	Understanding of Scientific or Engineering Ideas	
	Engaging in Argument from Evidence	The student(s) described all aspects of the project, answered questions, and engaged in additional discussion regarding the project. If a team project , all members of the team contributed to the presentation and discussion	Engaged in Discussion, ALL team members contributed	
			TOTAL / 52:	0