

Note - alternate questions for projects based on an engineering goal rather than testing a hypothesis are included in [brackets]

Individual Score Sheet						Total
		Lacking	Average/Adequate	Excellent		
Creativity and Originality	0	1	2	3	4	5
The topic or approach is creative and original The project represents a new idea or a new twist on an existing idea						
Scientific Method:						
Question & Hypothesis	1	2	3	4	5	
Clear and specific question, problem or engineering goal stated Clear and specific hypothesis based on research [Clear description of Engineering problem to be solved] Hypothesis predicts how changing one variable affects another variable and states the expected outcome [Engineering project explores alternatives to answer a need/solve problem and identifies possible solution]						
Procedure	1	2	3	4	5	
The procedure is designed to test the hypothesis; adequate number and type of tests conducted to verify results [Clear definition of the criteria for proposed Engineering solution, explanation of constraints] Appropriate safety measures followed, including supervision when needed Experiment could be repeated by another person using procedure as written						
Data Analysis	1	2	3	4	5	
Controls and variables clearly recognized and defined, adequate number of tests/test subjects [Engineering prototype has been developed and tested in multiple conditions/trials] Complete and thorough data and notes collected (logs, graphs, tables, photos, observations) Limitations of data [constraints of prototype] or possible sources of error discussed						
Conclusion	1	2	3	4	5	
Conclusion is relevant to the hypothesis and supported by adequate data [Engineering prototype demonstrates skill and completeness and reflects stated goal] Possible sources of error [or technical difficulties and constraints] are discussed Addresses ideas for project improvement or future research						
		Lacking	Average/Adequate	Excellent		
Quality of the Display	0	1	2	3	4	5
Well organized, easy to understand and visually appealing The display guides a viewer all the way through the project from beginning to end Charts, graphs and diagrams are well labeled and meaningful The student uses proper grammar and careful spelling throughout the project						
Quality of the Interview	0	1	2	3	4	5
The student was knowledgeable, enthusiastic and well organized throughout the interview The student was able to answer your questions about their project The student clearly understands all terminology and concepts used in the project						
Above and Beyond / Overall Effort	0	1	2	3	4	5
Can Include but not limited to The project represents significant and productive investment of time and effort Technical problems or unexpected events were addressed not avoided or ignored The project addresses a real life need and may present a possible solution. The contents of a log or notebook accurately document raw data and observations						
						Score Column Total
OTHER						
Is there something outstanding or unique that stands out about this project and deserves recognition? If yes, please describe:						
Is there a significant problem or concern with this project that is not addressed in the above questions? If yes, please describe:						

Name

Judge # _____

Project Title

Division and Category

Project # XXXX