

Elementary STEM Fair Judging Criteria Engineering Design

Project Title:	Project #:	Judge:

Project Description of Critoria	Description of Critoria	0	1	2	3
Elements	lements Description of Criteria	Inc	NI	ME	EX
Problem to be Solved	Identifies the project as a Scientific Investigation OR an Engineering Design. Clearly defines how a problem will be solved.				
Background Research	Describes why this project was selected and describes research. Shows evidence of understanding the project and can explain why project is important. Used a variety of sources.				
Prototype/ Design	Clearly explains how prototype/design will solve a problem				
Identifying	Identifies independent variable, dependent variable				
Variables	Identifies conditions/controls				
Procedures	Describe the process and/or explain in detail the development of the prototype. High score would indicate that the project can be repeated after reading.				
Trials	At least 5 variations or tests of the prototype/design are displayed.				
Data Collection	Use of photos/charts/graphs/illustrations to show data and data is clearly labeled				
Conection	Data measurements were done precisely				
	Written reflection that describes what the student has learned. Were there any surprises? What would you do differently or to continue the project?.				
Conclusion	Explains what was done throughout the project. Communicates problems and identifies potential sources of error. Defends the connection between their results and conclusions. Explains where the research can lead in the future (or not lead in the future), and why				
Abstract	Written summary of the entire investigation.				
Backboard	All components are present and is visually interesting. (question or problem, hypothesis, abstract, resources cited, title and authors, testing and planning, data and results, conclusion)				
Research Log	Completed Log Present including a log of scientific notes and thinking taken throughout the project.				
Recommend	ed Place: 1 st 2 nd 3 rd 4 th Total:				

Overall Comments: