

Project Title: _____

Project Number _____ Judge _____

High ----- Low

Pasco County Elementary STEM Fair Rubric		3	2	1	0
Creative Ability/Originality					
1	There was an original question asked or problem trying to solve is not common knowledge				
2	The student identified a variety of sources to guide their research				
3	The procedure was created by the student				
4	The student utilized the scientific method and/or engineering design process in experimentation rather than only descriptions and observations				
Scientific Thought					
1	The scope of the study was within the student's ability				
2	Extensive testing or experimentation was used throughout the investigation				
3	Scientific research was conducted (analyzing text, interviewing experts, etc.)				
4	The data collected relates to the thinking around the hypotheses				
5	The student can explain why data supported, or failed to support, their hypotheses				
Thoroughness					
1	The student identified the control group for their hypothesis				
2	The procedure was detailed, and could be easily replicated				
3	Both the dependent and independent variable were defined				
4	A minimum of 5 trials were conducted for each hypothesis				
5	The abstract includes purpose, procedure, data, and conclusions				
Skills					
1	Data measurements were done precisely				
2	Safety protocols were appropriate, and can be explained by the student				
3	Technical problems were overcome and not merely avoided				
4	The Research Plan was thoroughly completed and a log may be needed to more effectively communicate, procedures, data, conclusions and thinking.				
5	This project exhibits the students work and excessive help was not utilized				
Communication					
1	The student is able to explain what was done				
2	The student can defend the connection between their results and conclusions				
3	The student can explain where the research can lead in the future				
4	The student can relate their research to the real world				
5	The student anticipated problems and is able to identify potential sources of error				
Initial Total (Out of 72)					
Additional STEM Bonuses					
S	The project has the potential to dramatically impact a field of science				
T	The student utilized technology in the design, implementation or analysis of the project				
E	A new methodology, formula or tool was created to conduct the investigation.				
M	Mathematical approaches were used to help guide the development of the investigation or analysis of data.				
STEM Total (Out of 12)					
Grand Total (Out of 84)					

Recommended Place: 1st 2nd 3rd 4th Recommend for State: Yes No With Reservations