LAEF STEAM Fair Judging Rubric - Experimental Project

Project Title:
Student Name(s):

Project Component	Meets Requirement (1 point)
Abstract - Includes a summary of the main points of the project.	
Purpose Statement Slide	
• Statement includes what project is trying to discover or prove	
• Includes investigative question	
• Includes why you wanted to do this experiment	
• Includes how the information gained will help other people	
Background Research Slide	
• Includes information about scientific concepts related to the project	
• Includes information about other investigations people have done that help inform the project	
Hypothesis Slide	
• Statement predicts a relationship or trend between the independent and dependent variables	
• A rationale is given for the hypothesis.	
• Independent Variable (IV) is correctly identified	
• IV is operationally defined (with units)	
• Dependent Variable (DV) is correctly identified	
• DV operationally defined (with units)	
• One Controlled Variable (CV) correctly identified	
• Two CVs correctly identified	
• Three CVs correctly identified	
Experimental Procedures & Materials Slide	
• Materials listed separately from procedure	
• All materials used are listed	
• Procedure well organized	
• Procedure is in a logical sequence	
• Repeated trials	
• Enough information is given so another could repeat procedure	
Experimental Results Slide	
• Includes qualitative observations	
• Includes quantitative observations	
• All quantitative data has units	
• All data tables and graphs are labeled properly (axes & title)	
• Includes data for multiple trials	
• Enough information is given so another could repeat procedure	
Analysis of Experimental Results Slide	
• All data discussed and interpreted	
• Unusual data points commented on	
• Trends in data explained and interpreted	
• Enough detail is given to understand data and all statements must be supported by the data.	
• Possible reasons for errors are given.	
• Effect errors had on data discussed	

Conclusion Slide	
• Hypothesis is evaluated according to data	
• Hypothesis is re-stated	
• Reasons to accept/reject hypothesis given	
• All statements are supported by the data	
• Specific suggestions to improve the experiment are given	
• Suggestions for future experiments are given	
Bibliography and Resources - All resources are listed using proper MLA format.	
Flipgrid Video Submission - An excellent video will include thorough responses.	
• Video explains why they selected their experimental project.	
• Video explains the results of their experimental project.	
• Video explains how the results are beneficial to other people.	
• Video includes a strong argument as to why they should be chosen as a finalist for the competition.	
Total = / 45 pts	