

Finals Scoring Rubric

Poster Evaluation

Point Value:	2	1	0
Content	Includes the following sections: <ul style="list-style-type: none"> • Background • Hypothesis • Results (Figures & Text) • Discussion • Conclusion 	Includes 3 of these sections	Includes 2 or fewer of these sections
Overall Presentation	The overall poster meets the following criteria: <ul style="list-style-type: none"> • The sections listed above are clearly labeled • The poster is neat and visually appealing • Text has been edited and is typo-free 	Meets two of these criteria	Meets one or fewer of these criteria
Research Question	Project is based on one question that can be tested using the scientific method	Poster presents more than one question that can be tested with the scientific method and/or focus of the project unclear.	The proposed question cannot be answered using the scientific method
Background	The background section meets the following criteria: <ul style="list-style-type: none"> • Information is focused on developing an understanding of the independent variable (factor that is changed in the experiment) • Does not include common knowledge and/or extraneous information • Written formally, in third person, and in past tense 	Meets two of these criteria	Meets one or fewer of these criteria
Development of Hypothesis	The poster meets the following criteria: <ul style="list-style-type: none"> • Includes a logical hypothesis • Uses background information to explain development of hypothesis. • Uses the hypothesis to predict what will happen in the experiment (should be in the form of an "if...then" statement) 	Meets two of these criteria	Meets one or fewer of these criteria
Experimental Design	The summary of experimental design meets the following criteria: <ul style="list-style-type: none"> • Clearly lays out procedure in paragraph format • Indicates dependent variable (what is measured) and includes appropriate controls • Written formally, in third person, and in past tense 	Procedure laid out in step-by-step format (numbered list) OR Meets two of these criteria	Meets one or fewer of these criteria
Results (Figures & Tables)	Poster includes figures and/or tables that meet the following criteria: <ul style="list-style-type: none"> • Includes quantitative data • Data is displayed in the appropriate format (table vs. graph, bar graph vs. line graph) • Numbered sequentially and accompanied by descriptive title • Axes, columns and rows clearly labeled (including units) 	Meets three of these criteria	Meets two or fewer of these criteria
Results (Text)	Poster includes a written summary of the data that meets the following criteria <ul style="list-style-type: none"> • Includes quantitative data • Refers to all figures and tables by number • Summarizes raw data points. Highlights trends, but does not interpret • Written formally, in third person, and in past tense 	Meets three of these criteria	Meets two or fewer of these criteria
Discussion	Poster includes a discussion that meets the following criteria: <ul style="list-style-type: none"> • Refers to all figures and tables by number • Interprets results and trends in the data • Written formally, in third person, and in past tense 	Meets two of these criteria	Meets one or fewer of these criteria
Conclusion	Uses data and logic to support or refute the original hypothesis	Supports or refutes the hypothesis, but reasoning unclear or hard to follow	Does not support or refute the hypothesis
Future Plans	As part of the conclusion, the author indicated: <ul style="list-style-type: none"> • Potential sources of error • Relevance (application, policy decisions, satiation of curiosity, etc.) • Identified future areas of research 	Meets two of these criteria	Meets one or fewer of these criteria

Accuracy	The facts and concepts presented in this poster are scientifically accurate.	This poster includes 1-3 scientific inaccuracies.	This poster includes more than 3 scientific inaccuracies
Creativity (Novelty)	Project is unique and addresses concepts that may not have been researched in the past	Project is well done, but repeats previous research	Project has been done many times before
Creativity (Technique)	Shows innovation in development of experimental design	The techniques used in this project are not often seen in science fair projects, but would probably not be considered innovative	Standard techniques are used in this project
Creativity (Interpretation)	Displays data in a unique and visually compelling format	Graphics are clear and useful to the project, but are not presented in unique or visually compelling way	Data is presented in a standard form. Graphics are not visually compelling and may not be clear.
Creativity (Conclusion)	Author makes a unique and justified connection in their interpretation of the data. This is a new take on this research.	Author provides some unique points of insight, but does not fully explain or justify them.	The authors interpretation of this data is as expected. No unique insight provided.

Student Presentation Evaluation

Point Value:	4	2	0
Knowledge	Student exhibited thorough knowledge of science relevant to their project	Student had some knowledge of science related to their project	Student had little knowledge of the science related to their project
Understanding	Student fully understood the results of the experiment and was able to explain the logic behind their interpretation	Student exhibited some understanding of their results and/or provided a somewhat logical interpretation	Student was unable to clearly explain the results of the experiment
Use of poster in presentation	Student indicated (but did not read) the graphics on the poster throughout their explanation	Student did not indicate the graphics on the poster	Student read the poster to the audience
Answering Questions	Student provided clear, concise and thoughtful responses to <u>ALL</u> questions	Student provided clear, concise and thoughtful responses to <u>SOME</u> questions	Student was unable to answer most questions
Delivery	Student met the following criteria during presentation: <ul style="list-style-type: none"> made eye contact with audience was easily heard exhibited professional behavior (no gum chewing, swearing, etc.) was a dynamic and enthusiastic speaker 	Student meets 3 of these criteria	Student 2 or fewer of these criteria