

Greater Kansas City Science and Engineering Fair

Mathematics Scoring Guide

|-----Gold-----| |-----Silver-----| |-----Bronze-----|

	Full Accomplishment	Substantial Accomplishment	Partial Accomplishment	Little or no Accomplishment
Project Report Quality Evaluation				
Problem/Research Question	Yes , the problem is clearly and concisely stated showing the purpose and how this contributes to a field of study.	Yes , the problem is mostly complete but not clear. One or two components need improvement.	No , the problem is not complete or clear.	No , the problem is missing or not defined.
Plan to address the problem is clearly and logically stated.	Yes , the plan is complete and clear. It has an excellent description and follows a logical progression.	Yes , the plan is complete but poorly composed. May include unrealistic assumptions or false claims.	No , the plan is incomplete, ambiguous, some information missing, or is not based on facts.	No , the plan is missing or ambiguous, too short or unrelated.
Data Sources				
Data sources must be appropriate and representative for the problem being addressed.	Yes , data sources are appropriate and representative for the problem being addressed.	Yes , data sources are appropriate but may not be totally representative for the problem being addressed.	No , data sources are not appropriate for the problem being addressed.	No , data sources are not appropriate or representative for the problem being addressed.
Data sources must be sufficient.	Yes , a sufficient amount of data was examined in order to understand the situation and draw reasoned and well-supported conclusions.	Yes , some data was examined in order to understand the situation and draw reasoned and well-supported conclusions.	No , a sufficient amount of data was not examined in order to understand the situation OR a reasoned and well-supported conclusion was not made.	No , a sufficient amount of data was not examined in order to understand the situation and a reasoned and well-supported conclusion was not made.
Data sources are clearly identified and cited. (References or bibliography)	Yes , references are in appropriate format and relevant. Sufficient number of references included. Citations are complete.	Yes , sufficient number of references, but are poorly organized or formatted. Citations are incomplete.	No , very few references, poorly organized, incorrect or irrelevant references, citations are missing.	No references are provided.
Mathematics				
Appropriate mathematics are used.	Yes , the mathematical tools (algorithms, techniques, procedures, models, etc.) effectively address the problem and a K-12 math "expert" would probably make similar selections.	Yes , the mathematical tools (algorithms, techniques, procedures, models, etc.) are relevant to address the problem.	No , the mathematical tools (algorithms, techniques, procedures, models, etc.) are relevant but insufficient to effectively address the problem.	No mathematical tools are not available or are not appropriate to address the problem.
The mathematics used are clearly justified.	Yes , a clear and concise justification is given for the mathematical tools used.	Yes , a clear justification is given for the mathematical tools used.	No , the justification is not clear or concise given for the mathematical tools used.	No justification is given for the mathematical tools used.
Display				
The results are communicated clearly and correctly.	Yes , figures and graphics are necessary to the project, correctly done, clearly labeled, and tied to the text.	Yes , figures and graphics are necessary to the project and correctly done. They may not be clearly labeled.	No , some figures and graphics do not appear to be necessary or are not clearly labeled and tied to the text.	No , figures and graphics are missing or are unclear as to their purpose.
The display is logically organized and creative.	Yes , the information on the display flows in a logical manner that is easy to read and is creativity done.	Yes , the information on the display flows in a logical manner that is easy to read.	No , the information on the display is not organized in a logical manner and is somewhat confusing.	No , the information on the display is in no logical order and is confusing.