Greater Kansas City Science and Engineering Fair
Intermediate - Grades 4-6 Experimental Scoring Guide

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

Intermediate	Full Accomplishment	Substantial Accomplishment	Partial Accomplishment	Little or no Accomplishment
Introduction				
Is the **problem identified** or scientific question precisely stated?	**Yes**, and the problem or question is realistic and appropriate limits have been established.	**Yes, but** the way it is stated may lead to erroneous conclusions.	**No, but** the reader has some idea of what is being attempted.	**No**, or it is stated in a way that was confusing to the reader.
Is the **Literature Reviewed**?	**Yes**, it demonstrates a thorough search.	**Yes, but** some areas are not addressed.	**No, but** some sources are used.	**No**, background material is missing.
Is the **hypothesis testable** and relevant to the problem or question?	**Yes**, it is logical, leads to the investigation and makes appropriate predictions.	**Yes**, **but** it may contain some illogical ideas or it may not precisely lead to the investigation.	**No**, **but** there is enough information that allows the reader to assume a hypothesis.	**No**, it is missing, or it does not lead to the experiment that follows.
Procedure				
Is the procedure **logical, repeatable** and **appropriate** to the hypothesis?	**Yes**, it is clear and could easily be replicated.	**Yes, but** there are some elements that may be difficult to replicate.	**No, but** there is enough information so that the reader has a general idea of what was done.	**No**, the procedure is missing or very confusing.
Are the **variables identified?**	**Yes,** the Independent and Dependent - Variables are identified and stated clearly plus the need for control(s) is stated.	**Yes,** the Independent and Dependent - Variables are mostly evident, but not stated clearly plus the need for control(s) is not stated clearly.	**No,** all types of variables are not evident, but some are implied.	**No,** there are no clear evidences of the study variables.
Are **sample sizes** large enough to create confidence?	**Yes**, sample sizes were large enough to be measurable.	**Yes, but** there could have been more.	**No, but** there was an attempt to collect enough data.	**No**, sample sizes were too small.
Is the investigation designed so that it **tests the hypothesis**?	**Yes**, the data directly address the hypothesis.	**Yes, but** there may be some question as to its reliability.	**No, but** there is an awareness of the hypothesis.	**No**, the stated hypothesis wasn't tested.
Results				
Are the data **appropriate** for the stated hypothesis?	**Yes**, they are clearly identified and appropriate data are included.	**Yes, but** it is difficult to determine trends, or appropriate data are not included.	**No, but** trends may be suggested, or maybe inappropriate data are included.	**No**, the data are missing or are inappropriate for the hypothesis.
Are the data presented correctly in **graphs** and/or **tables**?	**Yes**, the data appear in correctly labeled tables and/or graphs.	**Yes, but** they are incomplete and not labeled.	**No, but** there was an attempt to include data in a table.	**No**, the data were not presented in tables or graphs.
Are the results **summarized** accurately?	**Yes**, trends are recognized.	**Yes, but** there are a few areas that are in need of clarification.	**No**, there may have been statements **but** some details of the data were ignored or incorrect.	**No**, there was no summary of the results.
Conclusion/Discussion				
Does the evidence support the conclusion or explanation?	**Yes**, and it demonstrates an understanding of the evidence and how an explanation or conclusion is reached.	**Yes, but** the conclusion/explanation may not be completely logical or there may be some bias indicated.	**No, but** there was an attempt to show relationships which were partly correct.	**No**, either it was missing or the data were misunderstood.
Display				
Does the **display** communicate the procedure and results?	**Yes**, it is organized in a sequential order and easy to read.	**Yes, but** there are elements that are unclear.	**No, but** information is presented.	**No**, little can be understood from the display.
Does the accompanying **paper** include a review of the literature and bibliography?	**Yes**, the paper includes a review of the literature and 3 or more sources in the bibliography.	**Yes, but** there are not 3 sources cited in the bibliography.	**No, but** some information is presented in the form of literature review and bibliography.	**No**, the paper does not include a review of literature and bibliography.

Greater Kansas City Science and Engineering Fair **Project #** _____

Dear GKCSEF Judges: These students worked hard to create their projects for your review. Please provide each student some constructive feedback so they know how they can improve their work in the future as well as supportive, encouraging comments that reflect what you like about their work. Thanks again for taking the time to judge this student's project—we appreciate your help as does the student!

1. Student's knowledge level about his/her project?

2. What components of the project were particularly well done and/or what do you like about this project?

3. What could the student do to improve/enhance the work?

4. Are there real-life applications for this project?

If the student is available for an interview.

1. What aspects of the project was the student able to expand upon or enhance?

2. What strengths did they display when speaking of their project?

3. What would be one piece of advice you would give them for future presentations that you have learned in your career?