



Fairfax County Elementary and Middle School Science and Engineering Fair Rubric

Grade:

PROJECT NUMBER:

Project Title:

Judging Criteria: (100 point scale)

1. Scientific Thought / Engineering Goals (40)

- a. Does the student(s) demonstrate knowledge of the scientific process in design and method? For engineering projects: Did the student have a clear objective and a tested solution?
- b. Is the student(s) able to thoroughly explain the project, understand the limitations of his/her research and provide possible ideas for furthering the research?
 - i. Is the research question stated clearly? How did the student form his/her hypothesis?
 - ii. Can the student explain why certain variables were chosen?
- iii. Is the student able to explain the data? Was there adequate data to support the conclusion? Were collection methods sound? Can the student explain the results?

2. Creativity and Enthusiasm: (40)

- a. Does the project show creative ability and originality in the question asked, the approach to solving the problem or in the analysis of the data?
- b. Does the project display support the student's knowledge of and enthusiasm for the project?
- c. Did the student work independently? How much adult involvement was required?

3. Mastery of Science, Technology, Engineering and Math (STEM) Principles: (20)

- a. Is the student well-rounded in each field of STEM (Science, Technology, Engineering and Math)? Can he/she explain how each element was used in the completion of the project?
- b. Do you feel the student has mastery of the content presented in the project? Does he/she understand the context of the project in the larger scope of the field?

TOTAL SCORE _____ **points**

JUDGE'S COMMENTS: