

ATTACHMENT A

Entry # _____ Judge No: _____ Grade Level _____

Project Title _____

Street Address: _____

Student Name(s) _____

1. CREATIVITY (20 points)

- a. Unique project or original approach to old problem. 1 2 3 4 5 6 7
- b. Materials and processes applied in a new or imaginative way. 1 2 3 4 5 6 7
- c. Student shows interest in project. 1 2 3
- d. Objective is practical and intriguing. 1 2 3

Total: _____

2. ASKING QUESTIONS or DEFINING PROBLEMS (15 points)

- a. **Goal/purpose** or practical need/problem clearly stated. 1 2 3 4
- b. Appropriate depth of research or definition of proposed solution. 1 2 3 4 5
- c. Testable using scientific methods or explanation of problem constraints. 1 2 3 4 5 6

Total: _____

3. DESIGN AND METHODOLOGY (20 points)

- a. Data collection methods precise, repeated and appropriate to problem or exploration of alternatives to answer need and/or problem. 1 2 3 4 5 6 7 8 9 10
- b. Variables /controls defined, appropriate and complete or investigating identification of a solution and development of a prototype/model. 1 2 3 4 5 6 7 8 9 10

Total: _____

4. COLLECTING, ANALYZING AND INTERPRETING DATA (20 points)

- a. Systematic data collection/analysis or prototype demonstrates intended design. 1 2 3 4
- b. Demonstrates reproducibility of results or prototype has been tested in multiple conditions/trials. 1 2 3 4
- c. Used appropriate application of mathematical and statistical methods. 1 2 3 4
- d. Sufficient data collected to support interpretations and conclusions or prototype demonstrates engineering skills and completeness. 1 2 3 4
- e. Conclusions are logical, supported by data, and relevant to scope of project. 1 2 3 4

Total: _____

5. DISPLAY AND PRESENTATION (25 points)

- a. Accurate and informative title and illustrations give credit to originator. 1 2 3
- b. Display clearly explains project and results. 1 2 3
- c. Graphic appeal and pride of workmanship evident in display or electronic pres. 1 2 3 4
- d. Technical clarity and thoroughness of oral presentation and discussion. 1 2 3 4 5 6
- e. All team members demonstrated confidence and poise in speaking. 1 2 3
- f. Demonstrates appreciation of relevant applications and further study. 1 2 3
- g. General evidence of personally performing all project tasks. 1 2 3

Total: _____

Judge's Name: _____

Grand Total: _____

Please include constructive comments on back.