

CENTRAL COAST STEM EXPO JUDGING SHEET

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 |

2. ASKING QUESTIONS or DEFINING PROBLEMS (15 points)

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

3. DESIGN AND METHODOLOGY (20 points)

- | | |
|---|----------------------|
| a. Data collection methods precise, repeated and appropriate to problem <u>or</u> 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 <u>or</u> investigating identification of a solution and development of a prototype/model. | 1 2 3 4 5 6 7 8 9 10 |

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

- | | |
|---|---------|
| a. Systematic data collection/analysis <u>or</u> prototype demonstrates intended design. | 1 2 3 4 |
| b. Demonstrates reproducibility of results <u>or</u> 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 <u>or</u> 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 |

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 presentation. | 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 |

Judge's Name: _____

Please include constructive comments on back.

Please include constructive comments about the project and students. The comments are used to select a scholarship award for:

- Overall Top Project;
- Plaque Awards for categories to include an Aeronautical, Engineering, Natural Sciences, and two high enthusiasm/determination awards; and
- The top three projects in each age categories receive Cast Awards.