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### JUDGING CRITERIA

POINTS      BULLETS DO NOT HAVE A PRE-DETERMINED NUMERICAL VALUE.

\_\_\_\_\_ **1. KNOWLEDGE ACHIEVED (10 points maximum)**

- Correct use and understanding of terms and principles
- Project exceeds classroom level for the student's grade level based upon the judge's opinion
- Adequate depth of knowledge
- Literature search: extent of scientific, engineering or medical journals /sources or just popular literature citations
- Supplements answers with additional relevant information

\_\_\_\_\_ **2. USES OF SCIENTIFIC METHOD or TECHNOLOGICAL DESIGN (10 points maximum)**

- Experimental design: specific problem or question, clearly stated hypothesis or technological design statement; clear method(s) with correctly defined and measured variables and controls; sufficient understanding of methods from related studies in the literature
- Data handling, data tables, graphs, statistics; sufficient number of trials or samples for the problem
- Valid conclusion(s) or discussion of results
- Well-documented lab journal/data record book
- Student effectively used professional equipment or correctly constructed/used home-made apparatus, equipment, experimental materials or models

\_\_\_\_\_ **3. CLARITY OF EXPRESSION (10 points maximum)**

- Abstract with clear statement of results
- Written report: unambiguous title, organization, results, correct grammar and spelling, citations, references
- Visual display: neatness, conveys essence of the idea, hypothesis or design statement, results and conclusion(s)
- Oral presentation: understanding or from memory; questions answered correctly and clearly

\_\_\_\_\_ **4. ORIGINALITY & CREATIVITY (10 points maximum)**

- New idea, concept, principle, hypothesis, insight or non-obvious approach or problem definition
- Novel association or relationship of previous discoveries or knowledge
- Rigorous and exhaustive analyses of extensive or robust data or results that reveal previously unknown relations
- Inquiry or design-based rather than a summary of knowledge

\_\_\_\_\_ TOTAL POINTS

**CIRCLE RATING: Superior    Excellent    Good    Satisfactory**

Minimum score for INDIVIDUAL projects at Local or District Science Days: SUPERIOR: 36 points, EXCELLENT: 24 points, GOOD: 12 points, \*SATISFACTORY: 4 points (\*not used at State Science Day).

Minimum score for State Science Day: SUPERIOR: 36 points, EXCELLENT: 24 points, GOOD: 12 points

JUDGE'S Printed Name \_\_\_\_\_ Signature \_\_\_\_\_

JUDGES MUST ADD COMMENTS ON BACK: Please add your comments about the project. Students especially look for constructive criticism to improve the project for future science days.