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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

5. TEAMWORK subtotal points (maximum of 10)

- All members have shown active participation and understanding of the entire project
- Team members participate equally in presentation
- Individual expertise or contributions are explained
- All team members participate in correctly and clearly answering questions

TOTAL POINTS

CIRCLE RATING: Superior Excellent Good Satisfactory

Minimum score for **TEAM** projects at Local or District Science Days: SUPERIOR: 45 points, EXCELLENT: 30 points, GOOD: 15 points, *SATISFACTORY: 5 points (*not used at State Science Day). Minimum score for State Science Day: SUPERIOR: 45 points, EXCELLENT: 30 points, GOOD: 15 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.