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.