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.