

Project # _____

Judge # _____

Lakota Science and Engineering Fair Science INDIVIDUAL Project

Judges: Please indicate your evaluation of each subsection by placing a checkmark in the appropriate box. At the end of each section, please assign a point value out of 10.

SECTION #1: ORAL, WRITTEN, AND VISUAL COMMUNICATION: <i>Tell me about your project? May I see your abstract? Judges are encouraged to consider student age and abilities (or potential disabilities) in all three types of communication when assigning points</i>	Superior (Exceeds) 9-10	Excellent (Meets) 6-8	Good 3-5
WRITTEN: Well documented lab journal (background and research notes, raw data and graphs) AND Abstract (background/introduction, method, results/findings and conclusions).			
ORAL: Correct and concise explanation of project, design and analysis. Responses reflect correct understanding of the experimental results as well as limitations of expansions of, and/or impact of project.			
VISUAL: Logical organization of material, neatly displayed, graphics and legends appropriate to project, easy to read and understand. Photos and graphics cited. Includes required information.			
Comments/Feedback (Required):	Points Earned: _____/10		
SECTION #2: ORIGINALITY: <i>Where did you get the idea for your project and prototype? Did you modify any designs that you found and if so, how?</i>	Superior (Exceeds) 9-10	Excellent (Meets) 6-8	Good 3-5
Project displays originality in concept relative to grade level (i.e. not "cookbook", not classroom lab, not a simple extension of "found" idea). How original is the idea, concept, principle, design? Is there a non-obvious approach and/or a novel association or relationship of previous designs or knowledge? Any particularly rigorous and exhaustive analyses that reveals previously unknown relations?			
Evidence of student's unique understanding and development of the project.			
Comments/Feedback (Required):	Points earned for this section: _____/10		
SECTION #3 EXPERIMENTAL DESIGN: <i>What design problem are you trying to address and how did you decide to go about addressing it?</i>	Superior (Exceeds) 9-10	Excellent (Meets) 6-8	Good 3-5

Project addresses a clear, focused problem or question with hypothesis that is testable using scientific methods.			
Well-designed plan and data collection methodology which identifies variables and controls. Grade appropriate control of variables (Not a summary of known science)			
Reproducible and sufficient data are collected. Data collected reflect correct selection and use of scientific equipment/acquisition.			
Data are properly analyzed. Appropriate graphs illustrate the data. Statistics appropriate to the age of student and correctly used.			
Valid conclusions are reached from the data obtained. Age appropriate discussion of results. Sources of error identified.			
Comments/Feedback (Required)	Points earned for this section: ____/10		
SECTION #4 DEPTH OF UNDERSTANDING: <i>What did you learn about the engineering and previous designs for your project before and during the process.</i>	Superior (Exceeds) 9-10	Excellent (Meets) 6-8	Good 3-5
Adequate age-appropriate background research (journals, textbooks, websites, etc.) relevant to the project which provides basis for hypothesis.			
Supplements answers with relevant information reflecting knowledge gained during the project.			
Age-appropriate use of terms and principles			
Age-appropriate exploration of science in subject, depth of investigation, sophistication of project.			
Comments/Feedback (Required):	Points Earned for this section: ____/10		
Total Points Earned	Overall Rank (Circle)		
Section 1: ____/10	Superior (34 – 40)		
Section 2: ____/10	Excellent (22 – 33)		
Section 3: ____/10	Good (12 – 21)		
Section 4: ____/10	Satisfactory (0 – 11)		
Total: _____/ 40			