Lakota Science and Engineering Fair
Science TEAM Project
January 27, 2023

Judges please indicate your evaluation of each subsection by placing a checkmark in the appropriate box. The LSEF Team will assign the point values.

SECTION #1: ORAL, WRITTEN, AND VISUAL COMMUNICATION: *Tell me about your project? May I see your abstract?* *Judges are encouraged to consider student abilities (or potential disabilities) in all three types of communication when assigning points*	Superior (Exceeds)	Excellent (Meets)	Good
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 (points to be assigned by the LSEF Team)		

SECTION #2: ORIGINALITY: *Where did you get the idea for your project and prototype? Did you modify any designs that you found and if so, how?*	Superior (Exceeds)	Excellent (Meets)	Good
Project displays originality in concept relative to grade level (i.e. not "cookbook", not classroom lab, not a simple extension of "found" idea). New idea, concept, principle, insight or non-obvious approach; Novel association or relationship of previous knowledge, particularly rigorous and exhaustive analyses that reveals previously unknown relations, etc.			
Evidence of student's unique understanding and development of the project.			
Comments/Feedback (Required):	Points Earned: _____/10 (points to be assigned by the LSEF Team)		

SECTION #3 EXPERIMENTAL DESIGN: *What design problem are you trying to address and how did you decide to go about addressing it?*	Superior (Exceeds)	Excellent (Meets)	Good
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: _____/10 (assigned by the LSEF Team)		

SECTION #4 DEPTH OF UNDERSTANDING: *What did you learn about the engineering and previous designs for your project before and during the process.*	Superior (Exceeds)	Excellent (Meets)	Good
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: _____/10 (assigned by the LSEF Team)		

SECTION #5 TEAMWORK: *How did your group function as a team? How was a team effort used to complete this project?*	Superior (Exceeds)	Excellent (Meets)	Good
All members of the team show an understanding and active participation in the entire project.			
All members of the team participate equally in the presentation of the project; correctly and clearly answering questions.			
The necessity of the individual expertise contributed by each team member is clear.			
Comments/Feedback (Required):	Points Earned: _____/10 (assigned by the LSEF Team)		

Total Points Earned (Completed by Science Fair Organizers)	**Overall Rank (Circle)**
Section 1: _____/10 Section 4: _____/10 Section 2: _____/10 Section 5: _____/10 Section 3: _____/10 **TOTAL: _____/ 50**	Superior (45-50) Excellent (30-44) Good (15-30) Satisfactory (0-14)

JUDGE Printed Name _____ Signature _____