

# GEARSEF 2021

## Project Score Sheet - Science

<b>I. Research Question: 10 points</b>	
o Demonstrates clear and focused purpose of study	/3
o Identifies contribution to field of study	/3
o Clearly identifies testable question (scientific process can be used to test research question)	/4
<b>Research Question Total:</b>	<b>/10</b>
<b>Comments:</b>	
<b>II. Design and Methodology: 15 points</b>	
o Well designed research plan	/5
o Clear and appropriate procedures for collecting data	/5
o Variables and controls are defined, appropriate and complete	/5
<b>Design and Methodology Total:</b>	<b>/15</b>
<b>Comments:</b>	
<b>III. Execution: Data Collection, Analysis and Interpretation: 20 points</b>	
<b>Data Collection:</b> <ul style="list-style-type: none"><li>▪ Systematic data collection (3 points)</li><li>▪ Reproducibility of results (3 points)</li><li>▪ Sufficient time spent on data collection (2 points)</li></ul>	/8
<b>Analysis:</b> <ul style="list-style-type: none"><li>▪ Appropriate application of mathematical and statistical methods</li></ul>	/6
<b>Interpretation/Conclusions:</b> <ul style="list-style-type: none"><li>▪ Are conclusions based on a single experiment or replication? (3 points)</li><li>▪ Are conclusions supported by data? (3 points)</li></ul>	/6
<b>Execution Total:</b>	<b>/20</b>
<b>Comments:</b>	

<b>Creativity: 20 points</b>	
<ul style="list-style-type: none"> <li>▪ Does the project offer different perspectives or open up new possibilities in a field of study? (6 points)</li> <li>▪ Is the project idea unique? (6 points)</li> </ul>	<b>/12</b>
<ul style="list-style-type: none"> <li>▪ Project demonstrates significant creativity in at least one of the following: Design and Methodology Data Collection Analysis</li> </ul>	<b>/8</b>
<b>Creativity Total:</b>	<b>/20</b>
<b>Comments:</b>	
<b>Presentation: 35 points</b>	
<b>Poster (10 Points):</b> <ul style="list-style-type: none"> <li>▪ Logical organization of material, how well does the physical display explain the project? (4 points)</li> <li>▪ Clarity of graphics and legends, how clearly are data and results presented? (3 points)</li> <li>▪ Supporting documentation displayed (3 points)</li> </ul>	<b>/10</b>
<b>Interview (25 points):</b> <ul style="list-style-type: none"> <li>▪ Clear, concise, thoughtful responses to questions (4 points)</li> <li>▪ Understanding of basic science relevant to project (4 points)</li> <li>▪ Understanding interpretation and limitations of results and conclusions (4 points)</li> <li>▪ Degree of independence in conducting project: If the work was performed in a “mentor-rich” environment, does the student exhibit evidence of their independent contributions to the work? (6 points)</li> <li>▪ Recognition of potential impact in science, society and/or economics (3 points)</li> <li>▪ Quality of ideas for further research (4 points)</li>   <li>▪ For team projects only – deduct points for unequal contributions to and understanding of project (up to 2 points)</li> </ul>	<b>/25</b>
<b>Presentation Total:</b>	<b>/35</b>
<b>Comments:</b>	
<b>Total Score:</b>	<b>/100</b>
<b>Final Comments:</b>	

Judge's Name: \_\_\_\_\_  
Please Print Legibly