# GEARSEF 2016
## Project Score Sheet - Science

### I. Research Question: 10 points
- Demonstrates clear and focused purpose of study /3
- Identifies contribution to field of study /3
- Clearly identifies testable question (scientific process can be used to test research question) /4

**Research Question Total: /10**

**Comments:**

### II. Design and Methodology: 15 points
- Well designed research plan /5
- Clear and appropriate procedures for collecting data /5
- Variables and controls are defined, appropriate and complete /5

**Design and Methodology Total: /15**

**Comments:**

### III. Execution: Data Collection, Analysis and Interpretation: 20 points

**Data Collection:**
- Systematic data collection /4
- Reproducibility of results /3
- Sufficient time spent on data collection /3

**Analysis:**
- Appropriate application of mathematical and statistical methods /6

**Interpretation/Conclusions:**
- Are conclusions based on a single experiment or replication? /4
- Are conclusions supported by data? /2

**Execution Total: /20**

**Comments:**

Tentative
**Creativity: 20 points**

- Project demonstrates significant creativity in one or more of the above categories (research question, design and methodology, data collection, analysis, conclusions) /12
- Does the project offer different perspectives or open up new possibilities in a field of study? Is the project idea unique? /8

Creativity Total: /20

**Comments:**

**Presentation: 35 points**

**Poster (10 Points):**
- Logical organization of material, how well does the physical display explain the project? (4 points)
- Clarity of graphics and legends, how clearly are data and results presented? (3 points)
- Supporting documentation displayed (3 points) /10

**Interview (25 points):**
- Clear, concise, thoughtful responses to questions (4 points)
- Understanding of basic science relevant to project (4 points)
- Understanding interpretation and limitations of results and conclusions (3 points)
- 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)
- Recognition of potential impact in science, society and/or economics (3 points)
- Quality of ideas for further research (3 points)
- For team projects, contributions to and understanding of project (2 points) /25

Presentation Total: /35

**Comments:**

Total Score: /100

**Final Comments:**

Judge’s Name: __________________________________________________________

Please Print Legibly.