

REGION III MSEF JUDGING CRITERIA FOR SCIENCE PROJECTS (ISEF)

I. Research Question (Total of 10 pts)

- ___ clear and focused purpose (up to 3 points)
- ___ identifies contribution to field of study (up to 3 points)
- ___ testable using scientific methods (up to 4 points)

II. Design and Methodology (total of 15 pts)

- ___ well designed plan and data collection methods (up to 7 points)
- ___ variables and controls defined, appropriate and complete (up to 8 points)

III. Execution: Data Collection, Analysis and Interpretation (total of 20 pts)

- ___ systematic data collection and analysis (up to 5 points)
- ___ reproducibility of results (up to 5 points)
- ___ appropriate application of mathematical and statistical methods (up to 5 points)
- ___ sufficient data collected to support interpretation and conclusions (up to 5 points)

IV. Creativity (total of 20 pts)

- ___ project demonstrates significant creativity in one or more of the above criteria (up to 20 points)

V. Presentation (total of 35 pts)

a. Poster (total of 10 pts)

- ___ logical organization of material (up to 3 points)
- ___ clarity of graphics and legends (up to 4 points)
- ___ supporting documentation displayed (up to 3 points)

b. Interview (total of 25 pts)

- ___ clear, concise, thoughtful responses to questions (up to 4 points)
- ___ understanding of basic science relevant to project (up to 4 points)
- ___ understanding interpretation and limitations of results and conclusions (up to 4 points)
- ___ degree of independence in conducting project (up to 4 points)
- ___ recognition of potential impact in science, society and/or economics (up to 4 points)
- ___ quality of ideas for further research (up to 4 if a team or 5 points if individual)
- ___ for team projects, contributions to and understanding of project by all members (1 point if team)