

Judging Criteria for Science Projects

Research Question **Score:** /10

- Clear and focused Purpose
- Identifies contribution to field of study
- Testable using scientific methods

Design and Methodology **Score:** /15

- Well-designed plan and data collection methods
- Variables and controls defined, appropriate and complete

Execution: Data collection, analysis and interpretation **Score:** /20

- Systematic data collection and analysis
- Reproducibility of results
- Appropriate application of mathematical and statistical methods
- Sufficient data collected to support interpretation and conclusions

Creativity **Score:** /20

- Demonstrates significant creativity in one or more of the above criteria

Presentation: Poster **Score:** /10

- Logical organization of material
- Clarity of graphics and legends
- Supporting documentation displayed

Presentation: Interview **Score:** /25

- Clear, concise, thoughtful responses to questions
- Understanding of basic science relevant to project
- Understands interpretation and limitations of results and conclusions
- Degree of independence in conducting project
- Recognition of potential impact in science, society and/or economics
- Quality of ideas for further research
- (Teams) Contributions to and understanding of project by all members

Overall Score ____ /100

Comments for students below this line:

Strengths:

Opportunity for Improvement:

Affix project label here

Judging Criteria for Engineering Projects

Research Problem **Score: /10**

- Description of a practical need or problem to be solved
- Definition of criteria for proposed solution
- Explanation of constraints

Design and Methodology **Score: /15**

- Exploration of alternatives to answer need or problem
- Identification of a solution
- development of a prototype/model

Execution: Construction and testing **Score: /20**

- Prototype demonstrates intended design
- Prototype has been tested in multiple conditions/trials
- Prototype demonstrates engineering skill and completeness

Creativity **Score: /20**

- Demonstrates significant creativity in one or more of the above criteria

Presentation: Poster **Score: /10**

- Logical organization of material
- Clarity of graphics and legends
- Supporting documentation displayed

Presentation: Interview **Score: /25**

- Clear, concise, thoughtful responses to questions
- Understanding of basic science relevant to project
- Understands interpretation and limitations of results and conclusions
- Degree of independence in conducting project
- Recognition of potential impact in science, society and/or economics
- Quality of ideas for further research
- (Teams) Contributions to and understanding of project by all members

Overall Score ____ /100

Comments for students below this line:

Strengths:

Opportunity for Improvement:

Affix project label here