

Student's Name: _____ Grade: _____ (7-12)

Creative Ability

Creative research should support an investigation and help answer a question in an original way. When evaluating projects, it is important to distinguish between gadgeteering and ingenuity.

The idea for the project should be original, and one the student developed on his/her own, with minimal input from others.

4 5 6 7 8 _____

The approach should be innovative and original, and not borrowed from previous sources. Also, consider whether any new processes or types of equipment were developed.

5 6 7 8 9 10 _____

The data should be analyzed and interpreted effectively. The student should have a complete understanding of the data.

4 5 6 7 8 _____

Project design and construction should be neat, well organized and show attention to detail.

3 4 _____

Creative Ability Subtotal (maximum 30 points)

Scientific Thought and Engineering Goals

The problem should be stated clearly and unambiguously.

3 4 _____

The problem should challenge the student.

3 4 _____

Was the Scientific Method followed precisely?

3 4 5 6 _____

Did the student successfully demonstrate the relevance and practicality of the project?

3 4 _____

The variables presented in the project should be clearly defined. If controls were necessary, did the student recognize their need and were they correctly used?

3 4 5 _____

Were enough data and results provided to arrive at a warranted conclusion? Does the student recognize the data's limitations?

3 4 _____

Student's ideas about what further research may be indicated from his/her project. What else might be done?

2 3 _____

Scientific Thought and Engineering Goals Subtotal (maximum 30 points)

Skill

Was the project well executed (following the Scientific Method)?

5 6 7 8 9 _____

Does the student demonstrate the laboratory, computational, observational, and design skills that would have been necessary for the project? (Students may receive advice, but they should do all of the actual work on the project.)

3 4 5 6 _____

Skill (maximum 15 points)

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Thoroughness

- How thorough was the testing (a single experiment or replication)? 2 3 _____
- Are popular media (e.g., newspapers) cited along with scientific literature? 1 2 _____
- Did the student effectively solve the problem that was stated? 3 4 _____
- Is there a comprehensive project notebook for the project? 2 3 _____
- Does the data support the conclusion? 2 3 _____

Thoroughness (maximum 15 points)

Clarity

- Is the exhibit neat and clear? How well does the display explain the project? 3 4 _____
- Are the oral responses well organized and thorough? 3 4 5 6 _____

Clarity (maximum 10 points)

OVERALL SCORE

Strong points to repeat and build on:

Areas to consider for next year's project:

Other Comments:

Judge's Name: _____