

Science Fair ~~Inventions~~: ~~Engineering~~ Innovations (6th-8th Grade)

Rubric for School Site Science Fair



	Attempted 1	Proficient 3	Advanced Proficient 5
Problem (x2) <i>(Double Points)</i>	Addresses a practical need to which there is already a common solution, or addresses an issue of little practical value.	Addresses a somewhat practical need some people have, which may have an expensive or uncommon solution.	Creatively addresses a practical need some people have, which may have an expensive or uncommon solution.
Research	Cites one or no information resource (e.g., text, encyclopedia, businesses, magazines, catalogs, internet, or interviews). Fails to mention a known similar idea in common use, or material is copied rather than written in the student's own words.	Cites few information resources. Mentions known similar ideas with some elaboration. Makes a general connection to a similar idea in the student's own words.	Cites at least four types of resources Makes a clear and well-elaborated connection with a known similar idea in the student's own words.
Possible Solutions	Proposes three or fewer solutions, some of which may be fanciful. Solution description is limited.	Proposes at least three practical solutions with limited description.	Proposes three or more practical solutions. One or more are very creative. Provides sufficient description for reader to understand.
How Invention Works	Provides few details, leaving the reader unclear about how the invention works.	Provides adequate details, giving the reader a general understanding of how the invention works.	Explains the invention, addressing all details, giving the reader a clear understanding of how the invention works.
Chart for Evaluating Invention	Student-developed criteria may be generic and do not apply specifically to the problem. Or, criteria may not be student-developed.	Criteria are student-developed. Some criteria apply to how the invention addresses the problem.	Criteria are student-developed specifically for the project and apply directly to how the invention addresses the problem.
Obstacles	Fails to analyze obstacles related to the practical design and function of the invention (i.e., may list obstacles that refer only to shopping for materials or cosmetic issues).	Provides adequate analysis of the obstacles related to the practical design and function of the invention (i.e., may discuss durability, strength, ease of use, cost/benefit for potential customers, etc.).	Demonstrates in-depth analysis of the obstacles related to the practical design and function of the invention.
Revised Solutions	Revised solutions do not address the obstacles mentioned, or are not practical.	Revised solutions practically address the obstacles mentioned.	Revised solutions practically address the obstacles mentioned and consider durability or other future issues.
Science Concepts	Provides limited or no explanation of science concepts. Explanation may not apply to the project.	Provides an adequate explanation of at least one science concept, which has some application to the project.	Provides in-depth explanation of at least one science concept directly applying to the project.
Display Presentation	Project has limited eye appeal or is not easily readable at approximately two feet distance. The project has limited organization, or contains confusing visuals, or contains major language or spelling errors.	Project is appealing and readable at approximately 2 feet distance. It is organized and clear, uses understandable visuals and/or models, and contains few language and spelling errors.	Project is appealing and neat, and is readable at approximately 2 feet distance. It is well organized and clear, makes striking use of inventive or amusing visuals and/or models, and uses language and spelling flawlessly.

(Projects will receive between 10 and 50 points when all rubric criteria have been addressed.)

**Science Fair
Inventions**

(6th – 8th Grade)
Judge's Score Sheet for
School Site Science Fairs

Teacher:	Period:
Student(s):	
Project:	
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Problem (x2) <i>(Double Points)</i>																						
Research																						
Possible Solutions																						
How Solution Works																						
Evaluation Chart																						
Obstacles																						
Revised Solutions																						
Science Concepts																						
Display Presentation																						
Total Score																						

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NOTES TO TEACHER: For grading purposes, 5-10 pts = Not Proficient (1), 11-24 pts = Partially Proficient (2), 25-39 pts = Proficient (3), 40-50 pts = Advanced Proficient (4).
Complete grading should also include other details not included here as Judging Criteria: for instance, written report details, completion of deadline tasks, display guidelines, model quality, etc.