

# Science Fair ~~Inventions~~: ~~Engineering~~ ~~New~~ ~~Ideas~~ (3<sup>rd</sup>-5<sup>th</sup> Grade)



## Rubric for School Site Science Fair

	<b>Attempted 1</b>	<b>Proficient 3</b>	<b>Advanced Proficient 5</b>
<b>Problem</b> <i>(Double Points)</i> <b>(x2)</b>	Addresses a practical need to which there is already a common solution.	Addresses a somewhat practical need some people have.	Creatively addresses a practical need some people have.
<b>Research</b>	Cites only 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.	Student 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.
<b>Possible Solutions</b> <i>(Double Points)</i> <b>(x2)</b>	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.
<b>How Invention Works</b> <i>(Double Points)</i> <b>(x2)</b>	Student provides few details, leaving the reader unclear about how the invention works.	Student provides adequate details, giving the reader a general understanding of how the invention works.	Student explains the invention, addressing all details and giving the reader a clear understanding of how the invention works.
<b>Chart to Show How Well It Worked</b>	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.
<b>Obstacles</b>	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 some analysis of the obstacles related to the practical design and function of the invention (i.e., may discuss durability, strength, ease of use, etc.).	Demonstrates in-depth analysis of the obstacles related to the practical design and function of the invention.
<b>Display Presentation</b>	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

(3<sup>rd</sup> through 5<sup>th</sup> Grade)  
Judge's Score Sheet for  
School Site Science Fairs

Teacher: \_\_\_\_\_ Room: \_\_\_\_\_

<b>Problem</b> <i>(Double Points)</i> <b>(x2)</b>																			
<b>Research</b>																			
<b>Possible Solutions</b> <i>(Double Points)</i> <b>(x2)</b>																			
<b>How Invention Works</b> <i>(Double Points)</i> <b>(x2)</b>																			
<b>Evaluation Chart</b>																			
<b>Obstacles</b>																			
<b>Display Presentation</b>																			
<b>Total Score</b>																			
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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.