Science Fair Inventions: Engineering New Ideas (3rd-5th Grade)

long beach unified school district	
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Targets for an Excellent Science Fair Project

unified school district	Advanced Proficient 5	"TRANSLATED"
Purpose & Problem (Double Points) (X2)	Creatively addresses a practical need some people have.	Explain the problem you want to solve.
Research	Makes a clear and well-elaborated connection with a known similar idea and with the needs of potential invention users in the student's own words.	Research thoroughly. Connect the research to your question.
Possible Solutions	Proposes three or more practical solutions. One or more are very creative. Provides sufficient description for reader to easily understand.	Describe three ideas to solve the problem.
Plan & Create (Double Points) (X2)	Diagrams and explains the invention, providing all labels and details needed to give the reader a clear understanding of how the invention works. Obstacles encountered in the building process are described well and solutions to the obstacles are explained.	For your best idea, make a diagram with labels to show how it works. Describe what was hard and how you got past it.
Test & Improve (Double Points) (X2)	Criteria are student-developed specifically to test how well the invention addresses the problem. The student uses data from the test to improve the design. The improved design is tested using the same criteria as before.	Describe how you test your invention to make sure it works. Explain how this helps you to improve your invention. Describe the results of re-testing after making improvements.
Conclusion & Applications	Demonstrates in-depth analysis of the obstacles related to the practical design and function of the invention (i.e., durability, strength, ease of use, etc.). Invention is clearly connected to real world applications.	Is your invention strong, easy to use? Will it last? Could people really use it?
Display Presentation	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.	Make your project fun to look at with pictures and colors. Use large, clear lettering. Check grammar and spelling.