

# Specialty Judging Tally Sheet



SPECIAL AWARD NAME: \_\_\_\_\_

SPECIAL AWARD CRITERIA: \_\_\_\_\_

ENTRY NO: \_\_\_\_\_

AGE CATEGORY:

ELEMENTARY

INTERMEDIATE

JUNIOR

SENIOR

PROJECT TITLE: \_\_\_\_\_

PROJECT STRENGTH (see table below): \_\_\_\_\_

PROJECT SCORE (optional, see next page): \_\_\_\_\_

How well does this project meet the Special Award Criteria?

Other notes or special merits of the project:

## Project Strength

	Experiment	Innovation	Study
	<i>An investigation undertaken to test a specific hypothesis using experiments. Experimental variables, if identified, are controlled to some extent.</i>	<i>Involves the development and evaluation of new devices, models, techniques, or approaches in fields such as technology, engineering, or computers (software and hardware).</i>	<i>The collection and analysis of data to reveal evidence of a fact, situation, or pattern of scientific interest. It could include a study of cause-and-effect relationships or theoretical investigations of scientific data. Variables, if identified, are by their nature not feasible to control, but an effort to make meaningful correlation is encouraged.</i>
<b>Strong</b>	Devise and carry out original experimental research that attempts to control or investigate most significant variables. Data analysis includes graphic presentations and may include some simple statistical analysis.	Integrate several technologies, inventions or designs and construct an innovative technological system that will have commercial and/or human benefit.	Study correlating information from a variety of significant sources that may illustrate cause and effect or original solutions to current problems through synthesis. Significant variable(s) identified. Data analysis includes graphic presentations and may include some simple statistical analysis.
<b>Good</b>	Devise and carry out an original experiment with controls. Variables are identified. Some significant variables are controlled. Data analysis includes graphic presentations.	Design and build innovative technology or provide adaptations to existing technology that will have economic applications and/or human benefit.	Study based on observations and literary research illustrating various options for dealing with a relevant issue. Data analysis includes graphic presentations in relation to some significant variables.
<b>Fair</b>	Extend a known experiment through modification of procedures, data gathering and application.	Make improvements to, or demonstrate new applications for existing technological systems or equipment and justify them.	Study of material collected through compilation of existing data and through personal observations. Project attempts to address a specific issue.
<b>Weak</b>	Duplicating a known experiment to confirm the hypothesis. Hypothesis is totally predictable	Building of models (devices) of existing technology.	Study of existing printed material related to the basic issue.

**Project Scoring (Optional)**

Overall Project Score A+B+C (Max 100 Points)

**A. Scientific value** (Use Experiment, Innovation or Study judging criteria according to the type of project)

Experiment	Study	Innovation	Score (0-10)
<b>Problem or Hypothesis</b> Clearly stated? Provided direction for the project? Can student explain why they found it interesting?			
<b>Background and Sources</b> Evidence of background reading or other background research? Multiple, independent sources used and verified? Sources used were credible? Were outside sources properly credited?			
<b>Experimental Design</b> Appropriate for hypothesis? Understanding of controls? Understanding of variables that can be manipulated? Understanding of the effect of variables that cannot be manipulated? Adequate replication?	<b>Study Design</b> Appropriate for objective? Definition/understanding of dependent/independent variables? Understanding of confounding variables? Adequate replication?	<b>Innovation Design</b> Did the project's design address the original objective? Did the student establish criteria for the success of the project?	
<b>Recording and Presentation of Data</b> Did student record data adequately during experiment/study? Did student understand the technology used in collecting data? Did the student identify key points and concepts? Data presented clearly (figures, graphs, tables)? Was data presented in the appropriate format?		<b>Construction</b> Did the student create/gather appropriate technology to meet the objective? Were problems encountered and overcome?	
<b>Inferences from Data</b> Did student understand sources of error? Were errors accounted for? Did the student understand the limitations of the experiment/study? Were extrapolations of data appropriate? Was appropriate statistical analysis performed? Does student understand statistical significance? Acknowledgments of unknowns and areas that require research? Did the student show critical thinking and analytical skills?		<b>Testing</b> Did the student design adequate tests of the project? Did the student record, analyze and present testing data adequately? Did testing reveal shortcomings of the design? Did testing lead to improvements in the design?	
<b>Conclusions</b> Justified by data? Clearly presented? Could the student relate results to their Problem or Hypothesis? Was help with the project adequately acknowledged (e.g. parents, teachers)?		<b>Results and Conclusions</b> Did the project's outcome meet the objective? Did the student understand the limitations of the project? Was help with the project adequately acknowledged (e.g. parents, teachers)?	
<b>Total – Scientific Value: (Max 60 Points)</b>			

**B. Creativity**

	Score (0-10)
<b>Resourcefulness and Imagination</b> Imaginative or creative choice of topic? Was the project original and novel? Resourceful or imaginative use of technology to gather data? Imaginative interpretation of data?	
<b>Future Work</b> Suggestions for improvement? Suggestions for future research/testing? Suggestions for applications?	
<b>Total – Creativity (Max 20 Points)</b>	

**C. Communication**

	Score (0-10)
<b>Written Report</b> Clear? Concise? Logical? Followed guidelines? Imaginative interpretation of data?	
<b>Oral Presentation and Project Display</b> Clear? Concise? Logical? Enthusiastic? Answered questions well?	
<b>Total – Communication (Max 20 Points)</b>	