

ISEF DIVISION JUDGING GUIDELINES- NYSSEF 2009

PROJECT # _____ STUDENT NAME _____

THIS RUBRIC IS NOT FOR TEAM PROJECTS

Criteria	Questions to assist in evaluation of projects	Maximum points	Score
Creative Ability	Does the project show creative ability and originality in questions asked, approach to solving problem, analysis, and interpretation?	30	
Scientific Thought/Engineering Goals	<ul style="list-style-type: none"> ◦ Is there a clearly stated problem or objective ◦ Was the problem sufficiently limited to allow a plausible approach? ◦ Was there a procedural plan for obtaining a solution? ◦ Are the variables clearly recognized and defined? ◦ Is there adequate data to support conclusions ◦ Are the limitations of data recognized? ◦ Is there an understanding of project's ties to related research ◦ Did the work cite scientific literature, or only popular literature? <p><i>For engineering projects:</i></p> <ul style="list-style-type: none"> ◦ Is solution workable, acceptable to potential user, and economically feasible? ◦ Could solution be utilized successfully in design or construction of an end product? ◦ Is the solution a significant improvement over previous alternatives? ◦ Has the solution been tested for performance under the conditions of use? 	30	
Thoroughness	<ul style="list-style-type: none"> ◦ How completely was the problem covered? ◦ Are conclusions based on based on a single experiment or replications? ◦ How complete are project notes? ◦ Was sufficient time invested in this project? ◦ Is there a familiarity with scientific literature in the studied field, and awareness of other approaches or theories? 	15	
Skill	<ul style="list-style-type: none"> ◦ Does finalist/team have the required laboratory computation, observational and design skills to obtain supporting data? ◦ Where was project performed and how was it supervised? ◦ Where did equipment come from? Was it built independently, obtained on loan or part of a laboratory where student(s) worked? 	15	
Clarity	<ul style="list-style-type: none"> ◦ How clearly does the finalist discuss the project and explain purpose? ◦ Does the written material reflect the understanding of the research? ◦ How clearly are data and results presented? ◦ How well does the display explain the project? ◦ Did student or team perform all the project work, or did someone help? 	10	

Judge _____

TOTAL OUT OF 100 _____