



Judge's Scoring Guidelines & Worksheet for Scientific & Engineering Research Projects Junior & Senior Divisions

Project Number: _____ Title/Key Words: _____

Judge scoring is conducted using a 100-point scale and is based on 6 categories of evaluation listed below. Review the criteria carefully and use the one **most** appropriate (i.e. scientific project or engineering project) for each project you are judging. **Note:** team projects have a slightly different balance of points including points for **teamwork**. The following is a set of criteria that can assist you in interviewing and scoring your projects. **You will need to enter your scores and project feedback ONLINE.** This form is meant to be a tool for interviewing and a place to take notes.

GUIDELINES	NOTES <small><i>This form is NOT given back to exhibitors! Please use Online Project Feedback for comments you want to share with the student(s).</i></small>	Max Points	POINTS GIVEN
I. RESEARCH QUESTION –SCIENTIFIC PROJECTS <ul style="list-style-type: none"> • Clear and focused purpose • Identifies contribution to field of study • Testable using scientific methods or RESEARCH PROBLEM – ENGINEERING PROJECTS <ul style="list-style-type: none"> • Description of a practical need or problem to be solved • Definition of criteria for proposed solution • Explanation of problem constraints 		10 Points MAX	
II. DESIGN & METHODOLOGY – SCIENTIFIC PROJECTS <ul style="list-style-type: none"> • Well designed plan and data collection methods • Variables and controls defined, appropriate, and complete or DESIGN & METHODOLOGY – ENGINEERING PROJECTS <ul style="list-style-type: none"> • Exploration of alternatives to answer need or problem • Identification of a solution • Development of a prototype/model 		15 Points MAX	
III. DATA COLLECTION & METHODOLOGY – SCIENTIFIC PROJECTS <ul style="list-style-type: none"> • Systematic data collection & analysis • Reproducibility of results • Appropriate application of mathematical and statistical methods • Sufficient data collection to support conclusions or CONSTRUCTION & TESTING – ENGINEERING PROJECTS <ul style="list-style-type: none"> • Prototype demonstrates intended design • Prototype has been tested in multiple conditions/trials • Prototype demonstrates engineering skill & completeness 		20 Points MAX	

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IV. CREATIVITY <ul style="list-style-type: none">• Project demonstrates creativity in one or more of the above criteria		20 Points MAX	
V. PRESENTATION – DISPLAY BOARD/POSTER <ul style="list-style-type: none">• Logical organization of material• Clarity of graphics and legends• Supporting documentation displayed		10 Points MAX	
VI. PRESENTATION - INTERVIEW <ul style="list-style-type: none">• Clear, concise, thoughtful responses to questions• Understanding of basic science relevant to project• Understanding of interpretation and limitations of results and conclusions• Degree of independence in conducting project• Recognition of potential impact on science, society, and/or economics• Quality of ideas for further research		25 Points MAX	

Keep this sheet with you and use to take notes. Actual scores and comments should be entered online.

ADDITIONAL NOTES...