

The Ohio Academy of Science Science Day Judging Card – All Projects Year 2024

Local Fair Name:	or District Name: o edits or other modifications may be made in the judging criteria without the express written permission of			#			
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FOR TEAM PROJECTS: IN EACH OF THE FOUR SECTIONS OF THE JUDGING RUBRI POINTS. THERE IS NO SEPARATE JUDGING SECTION WITH POINTS FOR TEAMW project? Did all members of the team show an understanding and active participation in t clearly answering questions.	ORK. Consider how group functioned of	as a team? Was a team o	effort used to	complete th	his		
SECTION #1: ORAL, WRITTEN, AND VISUAL COMMUNICATION: Tell me about your project? May I see your report? Judges are encouraged to consider student abilities (or potential disabilities) in all three types of communication when assigning points			Superior (Exceeds)	Excellent (Meets)	Good		
Written: Final Research Report (includes relevant background information, research question and testable hypothesis, experimental design and procedures, data acquisition techniques, data analysis, conclusion and works cited). For Engineering Design projects, include an engineering design statement, design plan and discussion of prototype development and testing.							
<u>Oral:</u> Correct and concise explanation of project, design, and analysis. Responses reflect expansions of, and/or impact of project.							
<u>Visual:</u> Logical organization of material, neatly displayed, graphics and legends appropria project, easy to read and understand. Photos and graphics cited.	ite to						
Comments /Feedback –							
	Points Earned:						
GOOD (0-5)				_/10			
SECTION #2: ORIGINALITY: Where did you get the idea for your project, experimental design, and analysis? What interests you about this topic? Did you modify any designs that you found and if so, how?			Superior (Exceeds)	Excellent (Meets)	Good		
Project displays originality in concept, relative to grade level (i.e. not "cookbook", not cl a new idea, concept, principle, insight, or non-obvious approach. There is novel associationallyses that reveals previously unknown relations, etc.							
Comments / Feedback -							
SUPERIOR (5)				Points Earned:			
		EXCELLENT (4) GOOD (0-3)		/5			

SECTION #3: EXPERIMENTAL DESIGN: What question are you trying to answer and how did you decide to go about answering it? What did you learn from the data?					Excellent (Meets)	Good		
IF ENGINEERING DESIGN: What design problem are you trying to address and how did you decide to go about addressing it?								
Project addresses a clear, focused problem or question with hypothesis that is testable using scientific methods. <i>If Meta-Analysis project,</i> then hypothesis is testable using data from multiple peer-reviewed research papers. <i>If Engineering Design project,</i> addresses a clear, focused engineering design problem or need; criteria for success are identified; preliminary designs prepared; prototype created and tested with results clearly communicated.								
Project plan and data collection methodology identifies variables and controls and is not a summary of already known science. If Engineering Design project, student identifies and applies established engineering principles in their design.								
Reproducible and sufficient data are collected, or if Meta-Analysis project, sufficient amount of scientific data is synthesized from other sources to address question/problem. Data used were collected using appropriate and safe scientific protocols. If Engineering Design project, student used materials and processes effectively to correctly build prototype or model.								
Data are properly analyzed. Appropriate graphs and/or tables illustrate the data. Statistics appropriate to the age of student are correctly used. If Engineering Design project, sufficient testing of prototype or model is completed; data is properly measured, presented, and analyzed.								
Includes discussion of results and forms valid conclusions reached from the data obtained with sources of error identified. If Engineering Design, prototype successfully meets criteria that were established for the project.								
Comments /Feedback –								
SUPERIOR (14-15)				Points Earned:				
EXCELLENT (11-12-13) GOOD (0-10)					/15			
SECTION #4: DEPTH OF UNDERSTANDING: What did you learn about the science behind your project before and during the experiment? If Engineering Design - What did you learn about the engineering and previous designs for your project before and during the process?					Excellent (Meets)	Good		
Adequate age-appropriate background research (journals, textbooks, websites, etc.) relevant to the project which provides basis for hypothesis and ageappropriate use of terms and principles.								
Supplements answers with relevant information reflecting knowledge gained during the project.								
Describes how project applies to the student, the community and the natural world (i.e. the "why" would this project be important for people to know).								
Age-appropriate exploration of science in subject, depth of investigation, and/or sophistication of project.								
Comments /Feedback –								
SUPERIOR (9-10) EXCELLENT (6-7-8)				Points Earned:				
			GOOD (0-5)		_/10			
udge's Signature: Total Points Earned (completed by judges) Overall Rank (CIRCLE)								
					CIRCLE)			
Superior (36 - 40) Excellent				(24-35) Good (0-23)				