

Project # \_\_\_\_\_ Exhibitor(s) \_\_\_\_\_ Grade \_\_\_\_\_ School \_\_\_\_\_

Project/Paper Title \_\_\_\_\_

**SCIENTIFIC METHOD—Overall impression of the project/paper (50 pts max)**

Knowledge Gained	8 - 7 - 6	5 - 4 - 3	2 - 1 - 0	Points
	Has a <u>thorough</u> understanding of topic demonstrated through presentation and/or correct responses to questions. Student has acquired scientific skills.	Is somewhat familiar with topic area but cannot answer all questions effectively. Demonstrates minimal acquired scientific skills	Demonstrates little knowledge or scientific skills	
Scientific Approach	8 - 7 - 6	5 - 4 - 3	2 - 1 - 0	Points
	Has a well defined problem and uses scientific principles in a logical, orderly method	Has an adequately defined problem or attempted to solve by scientific method, but not both	Little to no evidence of scientific method used	
Experimental Approach and Variables	7 - 6 - 5	4 - 3 - 2	1 - 0	Points
	Single variable was tested for each experimental group; all other variables were controlled or accounted for.	Attempt was made at controlling variables but not all variables were accounted for	Variables were not controlled	
Experimental Approach: Control Group	7 - 6 - 5	4 - 3 - 2	1 - 0	Points
	Method was appropriate and effective. A control or comparison group was in evidence.	Method was inappropriate, but an attempt for control or comparison was made	Experimentation was not performed: no control/comparison	
Reliability of Data	8 - 7 - 6	5 - 4 - 3	2 - 1 - 0	Points
	Data collected is reliable, numerical, and metric. Repeated trials provide <u>more than</u> adequate data	Data collected is numerical, and metric , or data collected is adequate, but not both	Little or no data collected.	
Validity of Conclusion	7 - 6 - 5	4 - 3 - 2	1 - 0	Points
	Conclusion is consistent with data and/or observations and based on data collected	Conclusion is present but is not consistent with the data.	No conclusion or no valid conclusion present	
Originality	5 - 4	3 - 2	1 - 0	Points
	Demonstrates a novel approach and/or observations. Conclusion is based on data collected.	Some creativity and/or originality demonstrated	No originality demonstrated	

**DISPLAY OR VISUAL PRESENTATION (10 pts max)**

Information	5 - 4	3 - 2	1 - 0	Points
	Gives complete explanation of project	Adequate information, but not thorough	Mission pertinent information	
Artistic Qualities	5 - 4	3 - 2	1 - 0	Points
	Neat, organized, and appealing	Neat, but not organized well. Spelling errors.	Carelessly prepared; sloppy	

**ORAL REPORT (10 pts max)**

Presentation Quality	5 - 4	3 - 2		Points
	Clear presentation; concisely summarizes the project. Information is relevant and pertinent	Information given is adequate, but presentation is difficult to follow.	Information jumbled or irrelevant; presentation unclear	
Dynamics	5 - 4	3 - 2		Points
	Speaks fluently with reasonable good eye contact; polite and interested in the project.	Student was polite and interested in project. Moderate eye contact, relied heavily on notes.	No eye contact; read from notes. Did not seem interested.	

<b>Points (Subtotal)</b>	
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**WRITTEN REPORT (30 pts max)**

Abstract	3	2 - 1	0	Points
	Abstract is present and contains a summary of the purpose, procedure, and conclusion	One or two parts of the abstract is missing	Abstract is missing	
Safety Sheet	2	1	0	Points
	Safety sheet is present and all hazards have been identified	Safety sheet is present, but not all hazards have been identified	Safety sheet is missing	
Title Page/ Contents	2	1	0	Points
	Both are present	One is missing	Both are missing	
Purpose	2	1	0	Points
	The problem has been defined and a prediction has been made or implied	The problem has been defined, but a prediction has not been made	Neither the problem or a prediction are present	
Review of Literature	4 - 3	2 - 1	0	Points
	Review is thorough, parenthetically cited, and pertinent to topic	Review is adequate and pertinent, some citations are present	Little or no use of citations, and material is irrelevant to topic	
Materials	2	1	0	Points
	All materials are listed and measurements are metric	Not all materials are listed or not metric	No materials are listed	
Procedure	2	1	0	Points
	Procedure is easily followed; all steps included	Procedure is present, but not complete	Procedure is missing	
Results	3	2 - 1	0	Points
	Results are organized in tables or graphs; easily read by someone not familiar with the work. Data is quantitative with explanations when needed.	Results are less organized, not quantitative; difficult to understand	Results are not present	
Conclusion	3	2 - 1	0	Points
	A concise evaluation and interpretation of the data and/or results; referred to purpose and hypothesis	Conclusion is present, but is not consistent with data collected	No conclusion present	
Literature Cited	3	2 - 1	0	Points
	Quality and quantity of sources is adequate for topic	Quality or quantity is less than adequate	No literature citation present	
Spelling and Grammar	2	1	0	Points
	Good grammar and spelling are evident	Some spelling and grammar mistakes are present	Numerous spelling and grammar errors are present	
Order	2	1	0	Points
	Is neat and follows guidebook order as illustrated on this judging sheet (through conclusion)	Is neat or properly ordered, but not both	Is neither neat nor properly ordered	

Signatures Of Judges

Ratings:

100 – 90 Outstanding  
 89 – 80 First  
 79 – 60 Second  
 59 or less Third

**SUBTOTAL PAPER**

**SUBTOTAL METHOD**

**TOTAL POINTS**