

PAPER SESSION

SCIENTIFIC METHOD: Overall impression of the project.

<b>Knowledge gained</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	Exhibits a thorough understanding of topic as 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 to no knowledge gained nor scientific skills.	
<b>Scientific Approach</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	Has a well-defined problem and uses a logical, orderly method for solving the problem. Problem was solved using scientific principles.	Has an adequately defined problem <u>OR</u> attempted to follow scientific method, but not both.	Little to no evidence of scientific method used.	
<b>Experimental Approach: Variables</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	The independent (experimental) variable(s) have been thoroughly defined. Those significant variables not manipulated have been controlled.	The independent (experimental) variable(s) have not been thoroughly defined. Not all significant variables have been controlled.	The independent (experimental) variable(s) have not been defined. Few or no significant variables have been controlled.	
<b>Experimental Approach: Control/Comparison Group</b>	5 or 4	3 or 2	1 or 0	Points awarded
	Method was appropriate and effective. A control (known standard) was present <u>OR</u> when a control group is not possible a comparison was made among trial groups.	Method was inappropriate, but an attempt for control or comparison was made.	Experimentation was not performed, i.e., was a demonstration or exhibit. No control or comparison group present.	
<b>Reliability of Data</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	Enough data has been collected to reach a reliable conclusion. Data collected is numerical and metric, if applicable.	Data collected is not numerical and metric when applicable, <u>AND/OR</u> data collected is marginal.	Little to no data collected.	
<b>Data Analysis and Discussion</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	The data has been analyzed and its importance has been discussed.	The data has been analyzed but not discussed <u>OR</u> the discussion did not demonstrate adequate analysis.	Some of the data included is incomplete or illogical.	
<b>Experimental Error</b>	2	1	0	Points awarded
	Measurement error affecting the conclusion has been considered.	Some measurement error affecting the conclusion has been considered.	Experimental error has not been considered.	
<b>Validity of Conclusion</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	Conclusion is consistent with data and/or observations. Conclusion is based on data collected.	Conclusion is present but inconsistent with data.	No conclusion or no valid conclusion present.	
<b>Originality</b>	5 or 4	3 or 2	1 or 0	Points awarded
	Demonstrates a novel approach and/or idea. Highly creative.	Some creativity and/or originality demonstrated.	No originality or creativity demonstrated.	

ORAL PRESENTATION

<b>Presentation Quality</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	Clear presentation; concisely summarizes the project. Information is relevant and pertinent.	Information given is adequate, but presentation is difficult to follow.	Information jumbled, irrelevant; presentation is unclear.	
<b>Dynamics</b>	7 or 6	5 or 4 or 3	2 or 1 or 0	Points awarded
	Speaks fluently with good eye contact; polite, dynamic, and interested in their project.	Student was polite and interested in their project. Moderate eye contact, relied heavily on note cards.	No eye contact; read from note cards. Did not seem interested.	

RESPONSE TO QUESTIONS

<b>Presentation Quality</b>	3	2	1 or 0	Points awarded
	Response to questions showed insight and thorough understanding of background material.	Student answered most questions, but knowledge of background information was less thorough.	Student had difficulty responding to questions.	
<b>Dynamics</b>	3	2	1 or 0	Points awarded
	Student answered questions with good eye contact, clarity, and poise.	Student showed some eye contact, but seemed less interested in project.	No eye contact. Did not seem interested.	

**WRITTEN REPORT**

	4 or 3	2 or 1	0	Points awarded
<b>A. Abstract</b>	Abstract present; contains a concise summary of the purpose, procedure, and conclusion in 200 words or less. The proper IJAS form was used.	One or two parts of the abstract is/are missing or inadequate.	Abstract is missing or is entirely inadequate.	
<b>B. Safety Sheet</b>	The safety sheet identifies all of the major safety hazards, precautions taken, and any endorsement sheets (if necessary), which describe the use of human or non-human vertebrates or microorganisms, and ensures the safe use of such organisms. The proper IJAS form was used.	Safety sheet is present, but not all major hazards have been identified, precautions taken are missing, and any endorsement sheets (if necessary) do not completely describe the use of human or non-human vertebrates or microorganisms or ensures the safe use of such organisms.	Safety sheet is not present or any endorsement sheets (if necessary) are missing.	
<b>C. Title Page/ Table of Contents</b>	Title page is clear and concise. The table of contents is complete and includes pagination.	One or two elements is (are) missing.	The title page and table of contents are missing.	
<b>D. Acknowledgements</b>	Credit has been given to those who have helped with the project.		Acknowledgements are missing.	
<b>E. Purpose and Hypothesis</b>	The problem has been defined and a prediction has been made.	The problem has been defined OR a prediction has been made, but not both.	Neither the problem nor a prediction are present.	
<b>F. Review of Literature (R of L)</b>	Review of Literature is thorough, adequately cited within the R of L, and pertinent to topic using APA format, 5 <sup>th</sup> edition or later.	Review of Literature is inadequate OR citations are inadequate (not sufficient in number or did not follow APA format, 5 <sup>th</sup> edition or later).	Little or no use of citations and/or R. of L. is irrelevant to topic.	
<b>G. Materials</b>	All materials are listed and measurements are in metric, if applicable.	Not all materials are listed or measurements are not in metric, when applicable.	No materials are listed.	
<b>H. Procedure</b>	Procedure is complete and easily followed; all steps included. Measurements are in metric, if applicable.	Procedure is present, but not complete, is confusing, or measurements were not in metric, if applicable.	Procedure is missing.	
<b>I. Results</b>	Results are organized in tables or graphs and can be easily read by someone not familiar with the work. Data is quantitative and has been analyzed and discussed.	Results are less organized, not quantitative, difficult to understand or have not been analyzed or discussed	Results are inadequate or not present.	
<b>J. Conclusion</b>	A concise evaluation and interpretation of the data and/or results; referred to purpose and hypothesis.	Conclusion is present, but is inconsistent with data collected and/or does not refer to purpose and hypothesis.	No conclusion present.	
<b>K. Reference List</b>	Quality, quantity and variety of sources is adequate for topic. Sources listed are cited within Review of Lit. using APA format, 5 <sup>th</sup> edition or later. Most sources are current.	Quality, quantity, and/or variety of sources is less than adequate, or sources not all cited within R. of L., or APA format was not followed.	No reference list present.	
<b>Technical Aspects</b>	Good grammar and spelling are evident. The student's last name is in the upper right-hand corner of all pages after the table of contents. Font size and type are appropriate.	Two or three of the required elements are missing	Four or all of the required elements are missing.	
<b>Neat and Orderly</b>	Is neat and follows P & P Manual order as illustrated on left side of judging sheet. (A through K)	Is neat or properly ordered, but not both.	Is neither neat nor properly ordered.	

JUDGES' NAMES – PLEASE PRINT

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**For Your Information**

Gold: 115-96  
 Silver: 95-76  
 Bronze: 75-56  
 Participation: 55 or less

**Total Points**

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