

Project number _____

JUDGE'S FEEDBACK: GRADE 4-5

Name of project _____

PROJECT REQUIREMENTS	Grade			Criteria		
Research Topic/Question	0	1	2	3	Comments	Your Score
<i>Science-related question</i>	Question not clearly science related nor investigable.	Question somewhat science related nor investigable.	Question clearly science related & investigable.			
<i>Uniqueness</i>	Answer to question is obvious & readily found in scientific literature.	Asks a vague, not readily measurable, cause and effect question.	Asks a vague, measurable, cause and effect question requiring experimentation.	Asks a specific, measurable, cause and effect question requiring experimentation.		
<i>Appropriate question for age group</i>	Question well above comprehension level expected for age group.	Student could reasonably understand underlying science & interpret results.				
Log book usage	0	1	2			
<i>Log book</i>	Log book missing.	Log book present but incomplete or not used.	Thorough log book kept.			
<i>Maintenance</i>	Missing two or more: dates, times, places of experimentation, materials, procedures, and thoughts.	Missing one or more: dates, times, places of experimentation, materials, procedures, and thoughts.	Contains dates, times, places of experimentation, materials, procedures, and thoughts.			
					TOTAL FOR PAGE 1	

JUDGE'S FEEDBACK: GRADE 4-5

Data collection & interpretation	0	1	2	Comments	Your Score
<i>Experimentation & design</i>	Experiment run but insufficient to determine answer to question. Lacking assessment of one or more variables.	Experiment run sufficient to determine answer to question, but lacking assessment of one or more variables.	Experiment run sufficient to determine answer to question, including assessment of variables to be considered.		
<i>Good laboratory practices</i>	Little or no evidence of accuracy, repetition, use of control(s)*, and thoroughness. Insufficient number of data points.	Some evidence of accuracy, repetition, use of control(s)*, and thoroughness. Insufficient number of data points.	Accuracy, sufficient data points, repetition, use of control(s)*, and thoroughness are all clearly evident.		
<i>Data analysis</i>	Little or no evidence of proper data analysis nor recognition of unexpected results.	Some evidence of proper data analysis and possible recognition of unexpected results.	Data analyzed properly, utilizing basic statistical tools, including recognition of unexpected results.		
<i>Conclusions</i>	The derived conclusions do not reflect the data analysis as well as an understanding of the underlying scientific principles.	The derived conclusions partially reflect the data analysis as well as a partial understanding of the underlying scientific principles.	The derived conclusions reflect the data analysis as well as an understanding of the underlying scientific principles.		
* The experimental control is the experiment done without the "variable". The variable is the thing that you are changing to see what happens.				TOTAL FOR PAGE 2	

JUDGE'S FEEDBACK: GRADE 4-5

Clarity, organization & presentation	0	1	2	Comments	Your Score
<i>Display & report (if present)</i>	Unclear presentation. Procedures not outlined in a clear step-by-step fashion. Question & underlying scientific principles not accurately presented. Does not flow logically from question to experiment to conclusion.	Vague presentation. Procedures outlined in a clear step-by-step fashion. Question & underlying scientific principles not accurately presented. Does not flow logically from question to experiment to conclusion.	Clear presentation. Accurately presents the question, underlying scientific principles & experimental procedure in a step-by-step fashion. Flows logically from question to experiment to conclusion.		
<i>Data presentation</i>	Data not presented clearly. Missing two or more of more of the following: tables, graphs, statistics, etc.	Data not presented clearly. Missing one of more of the following: tables, graphs, statistics, etc.	Data presented effectively, including use of tables, graphs, statistics, etc.		
<i>Appropriateness of presentation & discussion</i>	Presentation and discussion is not age/education appropriate. References, sources of ideas & other assistance are missing.	Presentation and discussion is age/education appropriate. References, sources of ideas & other assistance are missing.	Presentation and discussion is age/education appropriate. References, sources of ideas & other assistance clearly identified.		
ADDITIONAL COMMENTS				TOTAL FOR PAGE 3	
				TOTAL POINTS FOR PROJECT	

16-24 Award of Excellence (Blue)

8-15 Honorable Mention (Red) 0-7

Award of Participation (White)