

Project number \_\_\_\_\_ JUDGE'S FEEDBACK: Kindergarten – Grade 8 / Scientific Display or Demonstration

Name of project \_\_\_\_\_

PROJECT REQUIREMENTS	Grade	Criteria	Comments	Your Score
Title		Clear title given.		
Science-related topic		Topic is not clearly related to science. Purpose absent.	Topic is clearly related to science. Purpose is vague or does not express what the student desires to learn.	
Purpose		Purpose is clear and expresses a desire to learn something new.	Purpose is clear, expresses a desire to learn something new, and explains how the student decided what to demonstrate or display.	
Organization & Interpretation	1	Display/demonstration is presented one way, without apparent organization other than appearance.	Display/demonstration is organized in one way to show relationships between the items shown in a way that allows the student to show the scientific principle.	
	2	Display/demonstration is organized in one way to show relationships between the items shown in a way that allows the student to show the scientific principle.	Conclusion does not refer back to the scientific principle, or contradicts the evidence collected or displayed.	
	3	Display/demonstration is organized in more than one way to show relationships between the items shown in a way that allows the student to completely show the scientific principle.	Conclusion drawn or the elements of the display/demonstration are pulled together sufficiently to show the scientific principle.	
Conclusion		Conclusion not drawn or the elements of the display/demonstration not pulled together sufficiently to show the scientific principle.		
<b>TOTAL FOR PAGE 1</b>				

12-16 Blue 8-11 Red 0-7 White

Project number \_\_\_\_\_

**JUDGE'S FEEDBACK: Kindergarten – Grade 8 / Scientific Display or Demonstration**

Name of project \_\_\_\_\_

Clarity of Presentation	1	2	3	Comments	Your score
Overall appearance	Project has limited eye appeal or is not easily readable at ~ 2 feet distance. The project has limited organization, or contains confusing visuals, or contains language or spelling errors.	Project is appealing and is readable at ~ 2 feet distance. It is organized and clear, uses understandable visuals and/or models, and has correct language and spelling.	Project is appealing and neat, and is readable at ~2 feet distance. It is well organized and clear, makes striking use of inventive or amusing visuals and/or models, and uses language and spelling flawlessly.		
Appropriateness of presentation & discussion	Presentation and discussion is not age/ education appropriate. Scientific terms not used to explain, identify, & describe.	Presentation or discussion is not age/ education appropriate. Scientific terms not clearly used to explain, identify, & describe.	Presentation and discussion is age/ education appropriate. Scientific terms clearly used to explain, identify, & describe.		
ADDITIONAL COMMENTS	<p><b>TOTAL FOR PAGE 2</b></p> <p><b>TOTAL POINTS FOR PROJECT</b></p>				

Project number \_\_\_\_\_

**JUDGE'S FEEDBACK: GRADE 2-3**

Name of project \_\_\_\_\_

PROJECT REQUIREMENTS	Grade	Criteria	Comments	Your Score
Appropriate topic	0	1	2	3
Science-related topic	Topic is not clearly related to science.	Topic is clearly related to science.	Question clearly testable & written clearly & concisely.	
Question asked that can be investigated or demonstrated	Question absent or addresses an issue to which the student could already know the answer.	Question not clear & concise.	Question clearly testable & written clearly & concisely.	
Appropriate question for age group	Question well above comprehension level expected for age group.	Question somewhat above comprehension level expected for age group.	Question slightly above comprehension level expected for age group.	Student could reasonably understand underlying science & interpret results.
Data Collection & Interpretation	0	1	2	3
Experimentation	Poor or unexplained experimental design & methodology.	Very clear, well designed but process not well understood.	Exceptional and original design, demonstrates clear understanding of process.	
Data & repetitions	Insufficient quantity of data collected, no repetitions, and absence of a control*.	Insufficient quantity of data collected, at least two trials, may or may not have used a control*.	Sufficient quantity of data collected, at least two trials, and use of a control* evident.	Sufficient quantity of data collected, at least three trials, and use of a control* evident.
Conclusion	None or inappropriate conclusion.	Conclusion presented but unclear or inaccurate.	Logical conclusion well supported by data.	Conclusion well supported with strong conceptual links and novel application.
<b>TOTAL FOR PAGE 1</b>				

\* The experimental control is the experiment done without the "variable". The variable is the thing that you are changing to see what happens.

Project number \_\_\_\_\_

**JUDGE'S FEEDBACK: GRADE 2-3**

Name of project \_\_\_\_\_

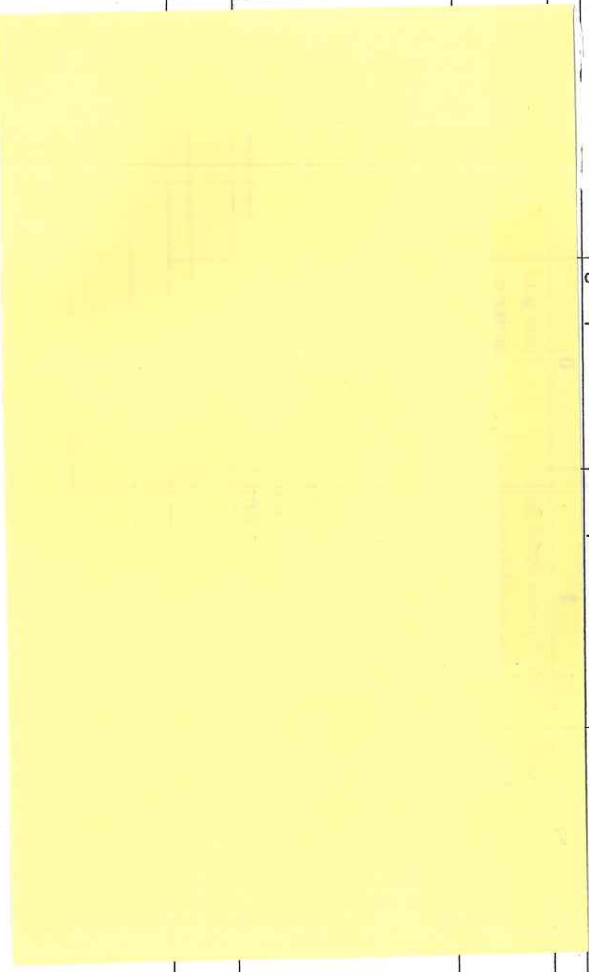
Clarity of Presentation	0	1	2	Comments	Your Score
Overall appearance	Display lacks organization & clarity. Difficult to follow.	Display has some organization & clarity. Some parts hard to follow.	Display has excellent design, attractive, good flow, & well organized.		
Question & results	Question and results are not presented or difficult to follow.	Question or results are difficult to follow.	Question & results are presented clearly & logically.		
Appropriateness of presentation & discussion	Presentation and discussion is not age/ education appropriate.	Presentation or discussion is not age/ education appropriate.	Presentation and discussion is age/ education appropriate.		
<b>TOTAL POINTS FOR PAGE 2</b>					
<b>TOTAL POINTS FOR PROJECT</b>					
<b>ADDITIONAL COMMENTS</b>					

14-20 Award of Excellence (Blue) 7-13 Honorable Mention (Red) 0-6 (White)

Project number \_\_\_\_\_

**JUDGE'S FEEDBACK: GRADE 4-5**

Name of project \_\_\_\_\_

PROJECT REQUIREMENTS	Grade	Criteria	Comments	Your Score	
Research Topic/Question	0	1	2	3	
Science-related question	Question not clearly science related, nor investigable.	Question somewhat science related nor investigable.	Question clearly science related & investigable.		
Uniqueness	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.	
Appropriate question for age group	Question well above comprehension level expected for age group.	Student could reasonably understand underlying science & interpret results.			
					
<b>TOTAL FOR PAGE 1</b>					

**JUDGE'S FEEDBACK: GRADE 4-5**

Clarity, organization & presentation	0	1	2	Comments	Your Score
<i>Display &amp; 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 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 &amp; 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.		
<b>ADDITIONAL COMMENTS</b>					TOTAL FOR PAGE 3
					TOTAL POINTS FOR PROJECT

Award of Excellence (Blue)

13-20

(Red)

8-13

(White)

0-7

## JUDGE'S FEEDBACK: GRADE 4-5

Data collection & interpretation	0	1	2	Comments	Your Score
<i>Experimentation &amp; 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.		
<p>* The experimental control is the experiment done without the "variable". The variable is the thing that you are changing to see what happens.</p> <p style="text-align: right;"><b>TOTAL FOR PAGE 2</b></p>					

Project number \_\_\_\_\_

**JUDGE'S FEEDBACK: GRADE 6-8**

Name of project \_\_\_\_\_

PROJECT REQUIREMENTS			Grade	Criteria	Comments	Your Score
Research Topic/Question	0	1	2	3		
Uniqueness	Question missing or not clearly stated. Answer may be obvious & readily found in scientific literature.	Question has some originality.	Very imaginative question.	Strikingly original and highly imaginative question.		
Suitability for scientific experimentation	Not suitable to controlled experimentation.	Somewhat suitable to controlled experimentation.	Suitable to controlled experimentation.	Suitable to controlled & rigorous experimentation.		
Experimental Design	0	1	2			
Depth/understanding	Explained, but flawed logic or poor and unexplained design. The science behind the question & the scientific process is not understood.	Very clear & well designed but the science behind the question & the scientific process is not fully understood.	Exceptional & original design. Demonstrates clear understanding of the science behind the question & the scientific process.			
Variables	Lacks identification & control of variables. Somewhat testable. Some background research present or absent. "If/then" statement may or may not be present.	Limited identification & control of variables. Completely testable. Background research & "if/then" statement present.	Independent & dependent variables correctly identified & operationally defined. Controlled variables correctly identified.			
Hypothesis						
<b>TOTAL FOR PAGE 1</b>						



## JUDGE'S FEEDBACK: GRADE 6-8

Data collection & interpretation	0	1	2	Comments	Your Score
<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 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>	Derived conclusions do not reflect data analysis & understanding of the underlying scientific principles.	Derived conclusions partially reflect data analysis & understanding of the underlying scientific principles.	Derived conclusions fully reflect data analysis & understanding of the underlying scientific principles.		
<i>Log Book</i>	Missing one or more: dates, times, places of experimentation, lists of materials, observations.	Includes dates, times, places of experimentation, lists of materials, observations.			
<i>Scientific literature</i>	Limited or no research of scientific literature.	Thorough research of the scientific literature evident.			
<p>* The experimental control is the experiment done without the "Variable".            The variable is the thing that you are changing to see what happens.</p> <p style="text-align: right;"><b>TOTAL FOR PAGE 2</b></p>					

### JUDGE'S FEEDBACK: GRADE 6-8

Clarity, organization & presentation	0	1	2	Comments	Your Score
<p><i>Display &amp; formal report*</i></p> <p><i>*if present (optional)</i></p>	<p>Unclear presentation. Procedures not outlined in step-by-step fashion. Question &amp; underlying scientific principles not accurately presented. Data not presented clearly. Missing or ineffective use of one of more: tables, graphs, statistics, etc.</p>	<p>Vague presentation. Procedures outlined in step-by-step fashion. Question &amp; underlying scientific principles not accurately presented. Data not presented clearly. Missing or ineffective use of one of more: tables, graphs, statistics, etc.</p>	<p>Clear presentation. Accurately shows the question, underlying scientific principles &amp; experimental procedure in a step-by-step fashion. Data presented effectively, including use of tables, graphs, statistics, etc.</p>		
<p><i>Analysis &amp; Conclusions</i></p>	<p>None or inappropriate analysis &amp; conclusions.</p>	<p>Analysis and resulting conclusion(s) presented but unclear or inaccurate. Illogical flow from question and experiment.</p>	<p>Analysis and resulting conclusion(s) clearly presented. Logical flow from the question and the experiment. Conclusion well supported with strong conceptual links and novel application.</p>		
<p><i>References &amp; Assistance</i></p>	<p>References, sources of ideas &amp; other assistance are incomplete or missing.</p>	<p>References, sources of ideas &amp; other assistance are clearly identified.</p>		<b>TOTAL FOR PAGE 3</b>	
<p><b>ADDITIONAL COMMENTS</b></p>	<b>TOTAL POINTS FOR PROJECT</b>				

16-24 Award of Excellence (Blue)

8-15 Honorable Mention (Red)

(White) 0-7