

MSTS ELEMENTARY PROJECTS: EXPERIMENT SCORING GUIDELINES

**SECTION 1: SCIENTIFIC CONTENT (Experimental Projects)**

<b>HYPOTHESIS /10</b>			
<b>Excellent (8-10)</b>	<b>Good (4-7)</b>	<b>Fair (0-3)</b>	<b>Score</b>
<ul style="list-style-type: none"> <li>● Problem is exceptionally relevant and well considered.</li> <li>● Significant amount of background research was done.</li> </ul>	<ul style="list-style-type: none"> <li>● Problem was relevant and well considered.</li> <li>● Some background research was conducted.</li> </ul>	<ul style="list-style-type: none"> <li>● Appropriate problem was formulated based on existing knowledge.</li> <li>● Little background research was done.</li> </ul>	<p style="text-align: center;"><b>10</b></p>
<b>METHOD /20</b>			
<b>Excellent (14-20)</b>	<b>Good (7-13)</b>	<b>Fair (0-6)</b>	<b>Score</b>
<ul style="list-style-type: none"> <li>● Procedure and materials used are clearly laid out.</li> <li>● Experiment was repeated to ensure accurate results, or a large sample size was used.</li> <li>● Variables are recognized and understood.</li> <li>● Effort was made to control outside factors that could affect the experiment.</li> <li>● Log book contains a full dated record of the experiment, including all original data.</li> </ul>	<ul style="list-style-type: none"> <li>● Procedure and materials are described.</li> <li>● Attempt was made to repeat the experiment or have an appropriate sample size.</li> <li>● Variables are stated.</li> <li>● Some effort was made to control external factors.</li> <li>● Log book contains some record of the project.</li> </ul>	<ul style="list-style-type: none"> <li>● Some description of the procedures and materials used.</li> <li>● A few observations were made to reach a conclusion.</li> <li>● No variables mentioned.</li> <li>● No conditions are controlled.</li> <li>● Log book contains little information and is not dated.</li> </ul>	<p style="text-align: center;"><b>20</b></p>
<b>ANALYSIS AND CONCLUSIONS /20</b>			
<b>Excellent (14-20)</b>	<b>Good (7-13)</b>	<b>Fair (0-6)</b>	<b>Score</b>
<ul style="list-style-type: none"> <li>● Significant analysis of the data has been conducted and clearly presented (charts, graphs, calculations, etc.)</li> <li>● Analysis is sufficient to support and conclusions made.</li> <li>● Most possible sources of error have been acknowledged.</li> </ul>	<ul style="list-style-type: none"> <li>● Some analysis has been done and presented and is relevant to the problem.</li> <li>● Appropriate conclusions have been drawn with little analysis.</li> <li>● Some sources of error have been considered.</li> </ul>	<ul style="list-style-type: none"> <li>● Some data has been clearly displayed.</li> <li>● Conclusions are not relevant.</li> <li>● Conclusions simply refer back to the problem.</li> </ul>	<p style="text-align: center;"><b>20</b></p>
<b>TOTAL SCORE</b>			<p style="text-align: center;"><b>50</b></p>

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**SECTION 2: CREATIVITY AND INSIGHTS /25**

Excellent (18-25)	Good (11-17)	Fair (0-10)	Score
<ul style="list-style-type: none"> <li>Independent thinking, creativity and resourcefulness were used in the design implementation and analysis of the project.</li> <li>All aspects of the project (problem, improvements, application) have been considered.</li> </ul>	<ul style="list-style-type: none"> <li>Emerging evidence of independent thinking and analysis of the project is shown.</li> <li>Some aspects of project (problem, improvements, application) have been considered.</li> </ul>	<ul style="list-style-type: none"> <li>There is an understanding of some aspects of the project.</li> <li>There is some consideration given to problems, extensions, improvements and application.</li> </ul>	<p style="text-align: center;"><b>25</b></p>

**SECTION 3: COMMUNICATION /20**

Excellent (14-20)	Good (7-13)	Fair (0-6)	Score
<ul style="list-style-type: none"> <li>The student introduced themselves.</li> <li>Presentation was clear, concise and logical.</li> <li>Questions were answered well.</li> <li>All important written and visual materials were well displayed.</li> <li>All material from other sources was properly credited and a bibliography was provided.</li> </ul>	<ul style="list-style-type: none"> <li>Major components of the project were presented</li> <li>Some questions answered.</li> <li>Most of the written and visual materials were present.</li> <li>Most of the material from other sources was properly credited.</li> </ul>	<ul style="list-style-type: none"> <li>With some prompting a good effort was made in doing an oral presentation.</li> <li>Answering some questions was attempted.</li> <li>Some of the important written material was present.</li> <li>Some attempt was made to credit outside sources.</li> </ul>	<p style="text-align: center;"><b>20</b></p>

**DEGREE OF DIFFICULTY /5**

Excellent (5)	Good (3-4)	Fair (1-2)	Score
<ul style="list-style-type: none"> <li>Problem approached was challenging beyond grade level, and a new understanding was gained.</li> </ul>	<ul style="list-style-type: none"> <li>Problem was somewhat challenging, and a good attempt was made to gain an understanding of it.</li> </ul>	<ul style="list-style-type: none"> <li>Problem researched was appropriate to their grade level, and a reasonable attempt to understand the problem was made.</li> </ul>	<p style="text-align: center;"><b>5</b></p>
<b>Total Score</b>			<p style="text-align: center;"><b>50</b></p>
<b>TOTAL OVERALL SCORE</b>			<p style="text-align: center;"><b>100</b></p>