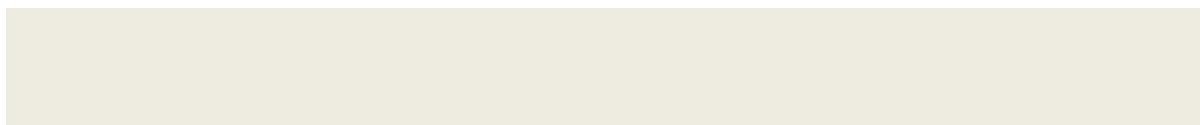




## Appendix A: STEM Fair: Oral Presentation Rubric

Student Name: \_\_\_\_\_

Category	Possible Points	Points Earned	Comments
<b>Eye Contact</b> – Student is not reading from display board and maintains eye contact with class the majority of the time.	2		
<b>Loudness of Voice</b> – Student is loud enough for all members of the classroom to hear.	2		
<b>Preparation</b> – Student should appear to have practiced their presentation.	2		
<b>Organization</b> – Student is presenting information in a logical order.	2		
<b>Enthusiasm</b> – Student seems interested and excited about their topic.	2		
<b>Title</b> – Student states their title.	1		
<b>Question</b> – Student states their question and explains why they chose this topic.	3		
<b>Hypothesis</b> – Student states their hypothesis.	1		
<b>Materials</b> – Student explains the materials they chose for their experiment.	1		
<b>Procedures</b> – Student summarizes how they did their experiment, being sure to mention how many times the experiment was repeated.	3		
<b>Results</b> – Student summarizes the results giving a few examples of numeric data collected.	1		
<b>Conclusion</b> – Student tells whether or not their prediction was correct and summarizes conclusions that could be made based on the data collected. Student should also explain anything they might do differently if they were to do this investigation again.	3		
<b>Research Paper</b> – Student should explain something they found interesting in their research.	2		
<b>Totals –</b>	<b>25</b>		<b>Final Grade: _____</b>





## Appendix B: STEM Fair: Display Board Rubric

Student Name: \_\_\_\_\_

Category	Possible Points	Points Earned	Comments
Overall Appearance and Organization: <ul style="list-style-type: none"> <li>All parts of the project are included, clearly labeled and in sequential order (title, question, hypothesis, materials, procedures, results, conclusion).</li> <li>Display board is neat and attractive.</li> </ul>	5		
Question: <ul style="list-style-type: none"> <li>Question led to an investigation, not a report, demonstration or model.</li> <li>A creative approach to problem solving was used to formulate the question.</li> </ul>	5		
Hypothesis/Prediction: <ul style="list-style-type: none"> <li>Prediction must state a possible outcome of the experiment with an accompanying explanation.</li> <li>Should show students background knowledge.</li> </ul>	5		
Materials/Procedures: <ul style="list-style-type: none"> <li>Materials and equipment are listed with specific amounts using METRIC units.</li> <li>All steps to conduct the experiment are described and in order.</li> </ul>	5		
Variables/ Experimental Design: <ul style="list-style-type: none"> <li>Independent, dependent, and controlled variables are correctly identified and listed.</li> <li>Adequate data were collected through repeated trials to justify the conclusion.</li> <li>Sufficient sample size was used to support the conclusion (as necessitated by project).</li> </ul>	5		
Results/Graphic Representation: <ul style="list-style-type: none"> <li>Data is presented in the form of a table with appropriate labels and title.</li> <li>An appropriate type of graph is accurately constructed (scale, labels and title) from the data on the table.</li> </ul>	5		
Results/Written Explanation: <ul style="list-style-type: none"> <li>Explanation analyzes and summarizes the data to note patterns and trends.</li> <li>Explanation interprets the graph.</li> </ul>	5		
Conclusion: <ul style="list-style-type: none"> <li>Answers the original question being investigated.</li> <li>Tells whether or not the hypothesis was correct, using specific data as a reference.</li> <li>Additional questions to investigate are presented.</li> </ul>	5		
<b>Totals –</b>	<b>40</b>		<b>Final Grade: _____</b>



## Appendix C: STEM Fair: Research Paper Rubric

Student Name: \_\_\_\_\_

Category	Possible Points	Points Earned	Comments
<b>Organization</b> – Information is very organized with well-constructed paragraphs and subheadings.	5		
<b>All Parts Present</b> – All <b>five</b> parts of the research paper are present and complete (Title Page, Acknowledgements, Question, Background Research and Bibliography).	5		
<b>Amount of Information</b> – All topics are addressed and all questions answered with at least 2 sentences about each.	5		
<b>Quality of Information</b> – Information clearly relates to the main topic. It includes several supporting details and/or examples.	5		
<b>Mechanics</b> – No grammatical, spelling or punctuation errors.	5		
<b>Sources</b> – All sources (information and graphics) are accurately documented in the desired format.	5		
<b>Totals –</b>	<b>30</b>		<b>Final Grade:</b> _____

