

Criteria	What to look for while judging	Individual	Team		
<b>Scientific Thought or Engineering Goals</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <b>Scientific Thought:</b> <ol style="list-style-type: none"> <li>1. Question or problem was stated clearly and unambiguously.</li> <li>2. The procedure/methods were well thought out and organized.</li> <li>3. Data and results were presented using quantifiable numbers and statistical analysis.</li> <li>4. Lab notebook/logbook is complete with original data, dates &amp; notes.</li> <li>5. Variables &amp; Controls are clearly recognized and used appropriately.</li> <li>6. The student/team understands their project's tie to related research.</li> <li>7. Measurements were made with as much accuracy as possible.</li> </ol> </td> <td style="width: 50%; padding: 5px;"> <b>Engineering Goals:</b> <ol style="list-style-type: none"> <li>1. The project had a clear objective.</li> <li>2. The solution is workable and economically feasible.</li> <li>3. The solution has been successfully tested under the conditions of use.</li> <li>4. The solution is a significant improvement over previous alternatives.</li> <li>5. Lab notebook is complete with original data, prototypes, dates, notes, etc.</li> </ol> </td> </tr> </table>	<b>Scientific Thought:</b> <ol style="list-style-type: none"> <li>1. Question or problem was stated clearly and unambiguously.</li> <li>2. The procedure/methods were well thought out and organized.</li> <li>3. Data and results were presented using quantifiable numbers and statistical analysis.</li> <li>4. Lab notebook/logbook is complete with original data, dates &amp; notes.</li> <li>5. Variables &amp; Controls are clearly recognized and used appropriately.</li> <li>6. The student/team understands their project's tie to related research.</li> <li>7. Measurements were made with as much accuracy as possible.</li> </ol>	<b>Engineering Goals:</b> <ol style="list-style-type: none"> <li>1. The project had a clear objective.</li> <li>2. The solution is workable and economically feasible.</li> <li>3. The solution has been successfully tested under the conditions of use.</li> <li>4. The solution is a significant improvement over previous alternatives.</li> <li>5. Lab notebook is complete with original data, prototypes, dates, notes, etc.</li> </ol>	<b>30</b>	<b>25</b>
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<b>Creative Ability</b>	<ol style="list-style-type: none"> <li>1. The project showed creative ability and originality in: <ul style="list-style-type: none"> <li>▪ The question asked.</li> <li>▪ The approach to solving the problem.</li> <li>▪ The interpretation of the data.</li> <li>▪ The use or design of equipment.</li> </ul> </li> <li>2. The display was creative and pleasing to look at.</li> </ol>	<b>25</b>	<b>20</b>		
<b>Thoroughness</b>	<ol style="list-style-type: none"> <li>1. Adequate data were collected to support the conclusions.</li> <li>2. Conclusions are based upon multiple trials, replications and/or test subjects.</li> <li>3. The student/team is aware of other theories or approaches.</li> <li>4. Conclusions and/or data analysis describe possible errors or flaws.</li> <li>5. Background research is related to the project and summarized by the student.</li> <li>6. References are identified.</li> <li>7. The student/students allowed themselves enough time to perform a thorough investigation.</li> </ol>	<b>20</b>	<b>20</b>		
<b>Skill</b>	<ol style="list-style-type: none"> <li>1. The student/team demonstrated that they have the required laboratory, computation, observational and design skills necessary to have completed their project.</li> <li>2. The student/team may have received help and assistance but the completed project reflects their work and understanding.</li> <li>3. The written material reflects the student/team's understanding and research.</li> </ol>	<b>15</b>	<b>10</b>		
<b>Clarity</b>	<ol style="list-style-type: none"> <li>1. The important phases of the project are presented in an orderly manner.</li> <li>2. There are few spelling and grammatical errors.</li> <li>3. Data and results are presented clearly.</li> <li>4. Graphs and charts are understandable and labeled correctly with measurable units.</li> </ol>	<b>10</b>	<b>10</b>		
<b>Teamwork</b>	<ol style="list-style-type: none"> <li>1. The tasks and contributions of each team member are clearly outlined.</li> <li>2. Each team member was fully involved with the project and each member was familiar with all aspects of the project.</li> <li>3. The final work reflected the coordinated efforts of all team members.</li> </ol>	----	<b>15</b>		
<b>Total Points Possible</b>		<b>100</b>	<b>100</b>		

