

# WESEF RUBRIC

Please use your best judgment; the following set of criteria can assist you in interviewing the presenters and aid in your evaluation of the students' projects.

**Your actual scores will be directly submitted online the day of the fair.**

Guidelines	Notes
<b>I. Introduction &amp; Background</b> <ul style="list-style-type: none"> <li>Provides an intro that begins with general info leading up to the area of research</li> <li>Student understands how their research builds upon previous work</li> </ul>	<div>Lowest</div> <div>1 2 3 4 5 6 7 8 9 Highest 10</div>
<b>II. Problem Statement / Goals / Hypothesis</b> <ul style="list-style-type: none"> <li>Student clearly explained the goals or purpose of the research</li> <li>Explains how the goal addresses a problem (gap in previous research)</li> </ul> <p><i>If this is an engineering project, hypothesis is <b>NOT</b> required</i></p>	<div>1 2 3 4 5 6 7 8 9 10</div>
<b>III. Methods/ Materials</b> <ul style="list-style-type: none"> <li>Student clearly identifies their role &amp; the mentor's role in the project</li> <li>Uses an efficient and reliable method for scientific work</li> <li>A clear plan was shown and variables were identified</li> <li><i>If controls were necessary</i>, appropriate controls were correctly used</li> <li>Sample size was appropriate for the type of study conducted</li> <li>If a survey was used, the questions adequately addressed the problem</li> </ul> <p><i>If this is an engineering project: solution can be utilized successfully in design or construction of an end product.</i></p>	<div>1 2 3 4 5 6 7 8 9 10</div>
<b>IV. Results / Analysis / Discussion</b> <ul style="list-style-type: none"> <li>Student clearly and adequately explained the results of his/ her work &amp; understands the relationship of the results with respect to the goals</li> <li>Sufficient data was presented to support the conclusion. <i>If applicable</i>, statistical analysis was used properly (projects involving questionnaires require statistical analysis)</li> <li>Student was able to explain method of analysis used including statistical analysis</li> <li>Student interpreted the data in a way that is consistent with the original hypothesis/ problem</li> <li>Statement</li> </ul> <p><i>If this is an engineering project: solution provides improvement or alternative to existing products or designs and solution has been tested for performance.</i></p>	<div>Lowest</div> <div>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Highest</div>

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<b>V. Conclusion / Application/ Future Research</b> <ul style="list-style-type: none"> <li>▪ Sound conclusions were made based on the data/schematics presented</li> <li>▪ Project was carried out to completion within the scope of the original intent</li> <li>▪ The student provided possible applications of his/her work</li> <li>▪ Demonstrated a clear direction for further study in the area of research</li> </ul>	<div> <div>12345678910</div> <div>LowestHighest</div> </div>
<b>VI. Novelty / Creativity</b> <ul style="list-style-type: none"> <li>▪ A creative project demonstrates imagination and inventiveness. Such projects often offer different perspectives that open up new possibilities or new alternatives.</li> <li>▪ The project demonstrates considerable creativity in one or more of the following criteria: research question, design &amp; methods, or execution (data collection, analysis or interpretation)</li> </ul>	<div> <div>12345678910</div> </div>
<b>VII. Quality of Presentation</b> <ul style="list-style-type: none"> <li>▪ Student presented the material in a clear and organized manner</li> <li>▪ Student demonstrated enthusiasm in the presentation of his/her research.</li> </ul> <p><i>If this is a team: the project demonstrates a cooperative effort and all members of the team contributed data that supports the study.</i></p>	<div> <div>12345678910</div> </div>
<b>VIII. Student Understanding</b> <ul style="list-style-type: none"> <li>▪ Student demonstrated understanding of the project by answering specific questions</li> <li>▪ Student clearly explains all aspects of the project</li> </ul> <p><i>If this is a team: all members of the team demonstrated understanding of the project by answering specific questions.</i></p>	<div> <div>123456789101112131415</div> </div>
<b>IX. Physical Poster Organization</b> <ul style="list-style-type: none"> <li>▪ The poster demonstrated an organized scientific approach</li> <li>▪ Poster clearly showed the data that was presented in identifiable tables and or figures</li> <li>▪ Poster clearly presented the specific goals or specific purpose of research study</li> <li>▪ Text was clearly visible with readable formatting</li> <li>▪ Information was creatively organized in a way that enhanced the presentation of student's research</li> </ul>	<div> <div> <div>LowestHighest</div> <div>12345678910</div> </div> </div>