

JUDGE #

WESEF Engineering Rubric

Poster ID#

Please use your best judgment; the following is a set of criteria that can assist you in interviewing the presenters and aid in your evaluation of the students' projects. Please circle a number; you must choose a whole number.

Guidelines	Notes
<p>I. Introduction & Background</p> <ul style="list-style-type: none"> ▪ Provides an intro that begins with general info leading up to the area of research ▪ Student understands how their research builds upon previous work 	<p>Lowest Highest</p> <p>1 2 3 4 5 6 7 8 9 10</p>
<p>II. Problem Statement/Goals</p> <ul style="list-style-type: none"> ▪ Student clearly explained the goals or purpose of the research ▪ Goal(s) is/are relevant to the potential users' needs ▪ Explains how the goal addresses a problem (gap in previous research) 	<p>1 2 3 4 5 6 7 8 9 10</p>
<p>III. Methods/ Materials</p> <ul style="list-style-type: none"> ▪ Student clearly identifies their role & the mentor's role in the project ▪ Uses an efficient and reliable method for scientific work ▪ A clear plan was shown and variables were identified ▪ <i>If controls were necessary</i>, appropriate controls were correctly used ▪ Solution can be utilized successfully in design or construction of an end product 	<p>1 2 3 4 5 6 7 8 9 10</p>
<p>IV. Results / Analysis / Discussion</p> <ul style="list-style-type: none"> ▪ Student clearly and adequately explained the results of his/her work & understands the relationship of the results with respect to the goals ▪ Solution provides improvement or alternative to existing products or designs ▪ Solution has been tested for performance ▪ Student was able to explain method of analysis used including statistical analysis, if used ▪ Student interpreted the data in a way that is consistent with the original hypothesis/problem statement 	<p>Lowest Highest</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15</p>

-- Please return ALL rubrics, NO RUBRICS SHOULD BE DISCARDED --

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----- Rubric continues onto the back -----

<p>V. Conclusion / Application/ Future Research</p> <ul style="list-style-type: none"> ▪ Sound conclusions were made based on the data/schematics presented ▪ Project was carried out to completion within the scope of the original intent ▪ The student provided possible applications of his/her work ▪ Demonstrated a clear direction for further study in the area of research 	<p>Lowest 1 2 3 4 5 6 7 8 9 Highest 10</p>
<p>VI. Novelty / Creativity</p> <ul style="list-style-type: none"> ▪ A creative project demonstrates imagination and inventiveness. Such projects often offer different perspectives that open up new possibilities or new alternatives. ▪ The project demonstrates considerable creativity in one or more of the following criteria: research question, design & methods, or execution (data collection, analysis and interpretation) 	<p>1 2 3 4 5 6 7 8 9 10</p>
<p>VII. Quality of Presentation</p> <ul style="list-style-type: none"> ▪ Student presented the material in a clear and organized manner ▪ The student demonstrated enthusiasm in the presentation of his/her research 	<p>1 2 3 4 5 6 7 8 9 10</p>
<p>VIII. Student Understanding</p> <ul style="list-style-type: none"> ▪ Student demonstrated understanding of the project by answering specific questions ▪ Student clearly explains all aspects of the project 	<p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15</p>
<p>IX. Physical Poster Organization</p> <ul style="list-style-type: none"> ▪ The poster demonstrated an organized scientific approach ▪ Poster clearly showed the data that was presented in identifiable tables and or figures ▪ Poster clearly presented the specific goals or specific purpose of research study ▪ Text was clearly visible with readable formatting ▪ Information was creatively organized in a way that enhanced the presentation of student’s research 	<p>Lowest 1 2 3 4 5 6 7 8 9 Highest 10</p>

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