

JUDGE #

WESEF Engineering Rubric

Student
Fair 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 style="text-align: center;">Lowest Highest</p> <p style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">Lowest Highest</p> <p style="text-align: center;">1 2 3 4 5 6 7 8 9 10 11 12 13 14 15</p>

-- Student technological difficulties should not influence your scores --

WESEF Engineering Rubric

----- 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 slides demonstrated an organized scientific approach ▪ Slides clearly showed the data that was presented in identifiable tables and or figures ▪ Slides 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>

-- Student technological difficulties should not influence your scores --