

## JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM POSTER JUDGING RUBRIC – 2023-2024

For use at regional events with judged poster presentations and at the National JSHS poster competition.

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

Student Poster Number: \_\_\_\_\_ Category: \_\_\_\_\_

Name of Judge: \_\_\_\_\_

### POSTER JUDGING RUBRIC (2023-2024)

*Rubric ranges are shown for 5 points possible.*

*Multiply by 2, 3, or 4 if points possible are 10, 15, or 20. Total points possible equal 100.*

Criteria	Excellent 4-5	Satisfactory 2-3	Needs Improvement 0-1	Points Possible	Points Earned
<p><b>All posters must include:</b></p> <ul style="list-style-type: none"> <li>• Title</li> <li>• Abstract</li> <li>• Hypothesis or Engineering Design</li> <li>• Methods and Procedures</li> <li>• Data Analysis</li> <li>• Results/Conclusion</li> <li>• Bibliography/References</li> </ul> <p><b>Acknowledgements (may be included, not required)</b></p>	<ul style="list-style-type: none"> <li>• Poster includes all required elements.</li> </ul>	<ul style="list-style-type: none"> <li>• Poster includes around half of the required elements.</li> </ul>	<ul style="list-style-type: none"> <li>• Poster includes few or none of the required elements.</li> </ul>	15	



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Criteria	Excellent 4-5	Satisfactory 2-3	Needs Improvement 0-1	Points Possible	Points Earned
<b>Visual Presentation</b>	<ul style="list-style-type: none"> <li>Overall visually appealing; not cluttered; colors and patterns enhance readability</li> <li>Uses font sizes/variations which facilitate the organization, presentation, and readability of the research.</li> <li>Graphics (e.g., tables, figures, etc.) are engaging and enhance the text.</li> <li>Content is clearly arranged so that the viewer can understand order without narration.</li> </ul>	<ul style="list-style-type: none"> <li>Visual appeal is adequate; somewhat cluttered; colors and patterns detract from readability.</li> <li>Use of font sizes/variations to facilitate the organization, presentation, and readability of the research is somewhat inconsistent/distracting.</li> <li>Graphics (e.g., tables, figures, etc.) adequately enhance the text.</li> <li>Content arrangement is somewhat confusing and does not adequately assist the viewer in understanding order without narration.</li> </ul>	<ul style="list-style-type: none"> <li>Not very visually appealing; cluttered; colors and patterns hinder readability.</li> <li>Use of font sizes/variations to facilitate the organization, presentation, and readability of the research is inconsistent/distracting.</li> <li>Graphics (e.g., tables, figures, etc.) do not enhance the text.</li> <li>Content arrangement is somewhat confusing and does not adequately assist the viewer in understanding order without narration.</li> </ul>	15	
<b>Statement of Research Problem</b>	<ul style="list-style-type: none"> <li>The presenter clearly demonstrates a thorough understanding of existing knowledge about the research problem.</li> <li>The research problem is clearly stated and explained in detail.</li> </ul>	<ul style="list-style-type: none"> <li>The presenter demonstrates some existing knowledge about the research problem.</li> <li>The problem is stated but lacks detailed explanation.</li> </ul>	<ul style="list-style-type: none"> <li>The presenter demonstrates little existing knowledge about the research problem.</li> <li>Statement of the problem is unclear and explanation is sparse.</li> </ul>	5	



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<b>Scientific Thought, Creativity, Originality</b>	<ul style="list-style-type: none"> <li>The presenter fully demonstrates their individual contributions to the project.</li> <li>There is balanced presentation of relevant and legitimate information and data to support the research problem.</li> <li>The presenter shows thoughtful, in-depth analysis of the topic.</li> </ul>	<ul style="list-style-type: none"> <li>The presenter only partially demonstrates their individual contributions to the project.</li> <li>The information presented supports a central purpose or argument at times.</li> <li>Analysis of the topic is basic or general.</li> </ul>	<ul style="list-style-type: none"> <li>The presenter does not acknowledge their individual contributions to the project.</li> <li>The central purpose is not clearly defined.</li> <li>Analysis is vague or not evident.</li> </ul>	5	
<b>Methods</b>	<ul style="list-style-type: none"> <li>Encompasses all materials required, states the hypothesis/research questions and explains the study design.</li> <li>If used, statistical procedures are included.</li> <li>A narration of the steps taken to complete the experiment is included.</li> </ul>	<ul style="list-style-type: none"> <li>Encompasses all materials required, states the hypothesis /research questions and explains the study design.</li> <li>The statistical procedures are included but are unclear.</li> <li>A narration of the steps taken to complete the experiment is included.</li> </ul>	<ul style="list-style-type: none"> <li>Does not encompass all materials required for the research and hypothesis/research questions are not stated.</li> <li>The statistical procedures are not included.</li> <li>Steps taken to complete the experiment are listed.</li> </ul>	10	



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Criteria	Excellent 4-5	Satisfactory 2-3	Needs Improvement 0-1	Points Possible	Points Earned
<b>Research Design</b>	<ul style="list-style-type: none"> <li>Science:               <ul style="list-style-type: none"> <li>Description of research design and procedures is detailed and shows reproducibility.</li> <li>Control and variables are clearly identified and explained.</li> </ul> </li> <li>Engineering, computer science, technology:               <ul style="list-style-type: none"> <li>Clear, detailed description and recognition of relationship between design and end product.</li> <li>Addresses economic feasibility of solution.</li> <li>Solution is tested for performance under conditions of use.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Science:               <ul style="list-style-type: none"> <li>Description of research design and procedures lacks some detail but shows reproducibility.</li> <li>Control and variables are identified but may not be thoroughly explained.</li> </ul> </li> <li>Engineering, computer science, technology:               <ul style="list-style-type: none"> <li>Description and recognition of relationship between design and end product.</li> <li>Partially addresses economic feasibility of solution.</li> <li>Solution is tested for performance under conditions of use.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Science:               <ul style="list-style-type: none"> <li>Description of research design and procedures lacks detail and does not show reproducibility.</li> <li>Control and variables are poorly identified.</li> </ul> </li> <li>Engineering, computer science, technology:               <ul style="list-style-type: none"> <li>Very little description and recognition of relationship between design and end product.</li> <li>Does not address economic feasibility of solution.</li> <li>Solution is not tested for performance under conditions of use.</li> </ul> </li> </ul>	10	



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Criteria	Excellent 4-5	Satisfactory 2-3	Needs Improvement 0-1	Points Possible	Points Earned
<b>Results</b>	<ul style="list-style-type: none"> <li>Results of the research are summarized.</li> <li>Data trends are clearly addressed and analyzed.</li> <li>Data that can stand alone in tables/figures are included in the paper or appendix.</li> </ul>	<ul style="list-style-type: none"> <li>Results of the research are partially summarized.</li> <li>Identification and analysis of data trends is vague.</li> <li>Data that can stand alone in the form of tables/figures are sometimes included.</li> </ul>	<ul style="list-style-type: none"> <li>Results of the research are poorly summarized.</li> <li>Data trends are not addressed.</li> <li>Data is not appropriately represented in tables/figures.</li> </ul>	10	
<b>Discussion &amp; Conclusions</b>	<ul style="list-style-type: none"> <li>Conclusion is logical and relevant to the research problem and results of experimentation or testing.</li> <li>Discussion addresses the significance of the results in detail, as well as recognizes the limits of the research.</li> <li>Practical and/or theoretical implications of the research are recognized.</li> </ul>	<ul style="list-style-type: none"> <li>Conclusion may rely on unsound reasoning and does not fully address its relevance.</li> <li>Discussion addresses the significance of results but lacks detail and/or only partially addresses the limits of the research.</li> <li>Practical and/or theoretical implications of the research are recognized.</li> </ul>	<ul style="list-style-type: none"> <li>Conclusions are not based on results and/or do not tie into the research problem or the relevance of results.</li> <li>The significance of the results is barely discussed, and the limits of the research are not addressed.</li> <li>Discussion does not recognize the practical and/or theoretical implications of the project.</li> </ul>	15	



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Criteria	Excellent 4-5	Satisfactory 2-3	Needs Improvement 0-1	Points Possible	Points Earned
<b>Communication</b>	<ul style="list-style-type: none"> <li>Student is able to clearly communicate research results to non-specialized audience members and judges.</li> <li>Student defines terms as needed and avoids overuse of technical jargon.</li> <li>Responses to questions from judges and audience are thoughtful and appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>Student is able to communicate research results to judges but may not be able to reach non-specialized audience members.</li> <li>Student defines terms sometimes but uses technical jargon.</li> <li>Responses to questions from judges and audience are thoughtful and appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>Student is not able to communicate research results clearly.</li> <li>Student is not able to avoid jargon or define terms used.</li> <li>Student struggles to answer questions from judges and audience members.</li> </ul>	15	
<b>POSTER TOTAL</b>	-	-	-	100	

**Judge Comments:**

