

JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM POSTER JUDGING RUBRIC – 2023-2024 (Revised)

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
All posters must include: <ul style="list-style-type: none"> • Title • Hypothesis or Engineering Design • Methods and Procedures • Data Analysis • Results/Conclusion • Bibliography/References Acknowledgements (may be included, not required)	<ul style="list-style-type: none"> • Poster includes all required elements. 	<ul style="list-style-type: none"> • Poster includes around half of the required elements. 	<ul style="list-style-type: none"> • Poster includes few or none of the required elements. 	15	



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.

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



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.

Criteria	Excellent 4-5	Satisfactory 2-3	Needs Improvement 0-1	Points Possible	Points Earned
Scientific Thought, Creativity, Originality	<ul style="list-style-type: none"> The presenter fully demonstrates their individual contributions to the project. There is balanced presentation of relevant and legitimate information and data to support the research problem. The presenter shows thoughtful, in-depth analysis of the topic. 	<ul style="list-style-type: none"> The presenter only partially demonstrates their individual contributions to the project. The information presented supports a central purpose or argument at times. Analysis of the topic is basic or general. 	<ul style="list-style-type: none"> The presenter does not acknowledge their individual contributions to the project. The central purpose is not clearly defined. Analysis is vague or not evident. 	5	
Methods	<ul style="list-style-type: none"> Encompasses all materials required, states the hypothesis/research questions and explains the study design. If used, statistical procedures are included. A narration of the steps taken to complete the experiment is included. 	<ul style="list-style-type: none"> Encompasses all materials required, states the hypothesis /research questions and explains the study design. The statistical procedures are included but are unclear. A narration of the steps taken to complete the experiment is included. 	<ul style="list-style-type: none"> Does not encompass all materials required for the research and hypothesis/research questions are not stated. The statistical procedures are not included. Steps taken to complete the experiment are listed. 	10	



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.

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



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.

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



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.

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

Judge Comments:

