

Year: 20__ __

The OHIO ACADEMY of SCIENCE
Science Day Judging Card – META-ANALYSES

INDIVIDUAL

Event: _____

Copyright © The Ohio Academy of Science 2019. All rights reserved. No edits or other modifications may be made in the judging criteria without the express written permission of The Ohio Academy of Science. Distribution and reproduction for educational purposes is permitted provided this notice is not removed. [The following space may be used for student's name, space assignment, project title or other administrative information.]

<p>JUDGES: Please indicate your evaluation of each subsection by placing a checkmark or a point score in the appropriate box and then add subsection scores to find total section points. (max. 10 points each section)</p>			
<p>SECTION #1: ORAL, WRITTEN, AND VISUAL COMMUNICATION: Tell me about your project? May I see your report? <i>In keeping with the open access mission of the Academy. Judges are encouraged to distribute the weighting of the 10 pts for this category based on student abilities.</i></p>	Superior (Exceeds)	Excellent (Meets)	Good
<p><u>Written:</u> Well documented lab journal (background and research notes, source data and graphs) AND Research Report (includes relevant background, research question and hypothesis showing how it is related to background, discussion of experimental design and procedures used by source researchers, data analysis and interpretation, conclusion and bibliography citing journals, textbooks, etc.). Both journal and report are present.</p>			
<p><u>Oral:</u> Correct and concise explanation of project, design, and analysis. Responses reflect correct understanding of the analytic results as well as limitations of, expansions of, and/or impact of project.</p>			
<p><u>Visual:</u> Logical organization of material, neatly displayed, graphics and legends appropriate to project, easy to read and understand. Photos and graphics cited. Follows display rules.</p>			
Comments /Feedback(Required):	Points Earned: ____ /10		
SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3			
<p>SECTION #2: ORIGINALITY: <i>Where did you get the idea for your project, experiment design, and analysis? What interests you about this topic? Did you modify any designs that you found and if so, how?</i></p>	Superior (Exceeds)	Excellent (Meets)	Good
<p>Project displays originality in concept (i.e. not "cookbook", not classroom lab, not a simple extension of "found" idea) New idea, concept, principle, insight or non-obvious approach; Novel association or relationship of previous knowledge, particularly rigorous and exhaustive analyses that reveals previously unknown relations, etc. Suggested max points =5</p>			
<p>Evidence of student's unique understanding and development of the project Suggested max points =5</p>			
Comments /Feedback(Required):	Points Earned: ____ /10		
SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3			

SECTION #3: ANALYTIC DESIGN: What question are you trying to answer and how did you decide to go about answering it? What did you learn from the data?	Superior (Exceeds)	Excellent (Meets)	Good
Project addresses a clear, focused problem or question with hypothesis that is testable using data from multiple peer-reviewed research papers. Suggested max points =2			
Well-designed plan and data collection methodology which identifies variables and controls used by source researchers. (Not a summary of already known science) Suggested max points =2			
Sufficient amount of scientific data is synthesized to address question/problem. Data used were collected using appropriate scientific protocols. Suggested max points =2			
Data properly combined and analyzed. Statistical analysis was in-depth and used correctly (age appropriate) Graphs and/or tables illustrate the data correctly. Suggested max points =2			
Valid conclusions are reached from the data obtained. Age appropriate discussion of results. Sources of error identified. Suggested max points =2			
Comments/Feedback (Required):	Points Earned: _____ /10		
	SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3		
SECTION #4: DEPTH OF UNDERSTANDING: What did you learn about the science behind your project before and during the analysis?	Superior (Exceeds)	Excellent (Meets)	Good
Adequate age appropriate background research (journals, textbooks, websites, etc.) relevant to the project which provides basis for hypothesis. Suggested max points =3			
Supplements answers with relevant information reflecting knowledge gained during the project. Suggested max points =3			
Age appropriate use of terms and principles. Suggested max points =2			
Age appropriate exploration of science in subject, depth of investigation, and/or sophistication of project. Suggested max points =2			
Comments/Feedback (Required):	Points Earned: _____ /10		
	SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3		
Total Points Earned (completed by judges)	Overall Rank (CIRCLE)		
Section 1: _____ / 10 Section 2: _____ / 10 Section 3: _____ / 10 Section 4: _____ / 10 Total: _____ / 40	Superior (36 - 40) Excellent (24-35) Good (12-23) *Satisfactory (0-11) <i>*Satisfactory rank is not used at State Science Day. Use is optional at Local and District Science Days at the discretion of event administrators.</i>		

JUDGE'S Printed Name _____ Signature _____