

2017-18 Elementary School STEM Fair Project Judging Sheet

Scientific Method

Name(s) _____ School _____

Project Title _____

I. Journal/Log (Scientific Thought)

Comments **3** **2** **1**

Title Page/Table of Contents: Title, name, school, date, and the table of contents (all must be included)			
Purpose: Problem or question stated clearly and is testable			
Research: Well-written notes, own words, comprehensive, contributes to the field of study			
Hypothesis: Well thought out, educated guess with explanation of why			
Designed Plan for the Experiment:			
○ List of materials and step-by-step instructions clearly written			
○ Controlled and experimental variables are identified and complete; appropriate for the project			
○ Data gathering plan is well designed, organized, and systematic			
○ Sufficient data is gathered to support interpretation and conclusions			
Analysis: Graph shows systematic data collection with appropriate mathematical and statistical methods			
○ Graph accurately made showing sound data, comparisons, and reproducibility of the results			
○ Well written explanation of the graph with accurate data analyses and interpretations			
Conclusion: Shows strong conclusions and connections to real world ideas; strong evidence of student learning (4 points)	(worth 4 points)		
Bibliography: Three sources cited in the bibliography			

II. Display

Comments **5** **3-4** **1-2**

○ Neat, edited, easy to follow, and physically sound			
○ Scientific method process is displayed well, clarity of graphics and legends, and self-explanatory			
○ Supporting documentation sited or displayed (bibliography)			
○ Board design demonstrates significant creativity			

III. Interview

Comments **5** **3-4** **1-2**

○ Student shows a basic knowledge of field studied relevant to the project			
○ Student is able to clearly explain the process and the results of the project and its potential impact in science			
○ Student understands the interpretation and limitations of the results and conclusions			
○ Student shows interest, enthusiasm, and a passion toward the project, and has quality ideas for further research			

IV. Project Design Follow Through

Comments

5

3-4

1-2

○ Significant creative and procedural approach with ingenious use of materials and equipment to solve the problem				
○ Project shows in-depth thought and work to solve the problem with excellent follow through				
○ Student shows a large degree of independence in developing and conducting the project.				
○ Results show a well, thought out, reasonable conclusion showing a useful connection to the world				

Total Score	/100
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