## 2019-20 ELEMENTARY SCHOOL STEM FAIR SCIENTIFIC DISCOVERYJUDGING SHEET

Name(s)		Judge Number
·		oude rumber
School		
Project Title		
Journal/Log	Please Write Comments	Score
Title Page		/4
Title, name, school, date.		
Table of Content All steps of Scientific Discovery Process listed: Purpose,		/6
Research, Hypothesis, Design Plan and Methodology, Execution, and Interpretation and Conclusion.		
Scientific Discovery Process		/3
Purpose		, ,
Clearly stated, reasonable, and testable.		
Research		/10
Well-written research notes, in their own words,		
comprehensive, and contributes to field of study.		
At least three cited references.		/3
Hypothesis		/4
Well thought out, educated guess with an explanation of why.		
Design Plan and Methodology Step-by-step instructions are detailed, clear, and complete.		/5
Material list is detailed, clear, and complete.		/5
Controlled and experimental variables are identified, appropriate for the project, and complete.		/5
Data gathering plan is well designed, systematic, and organized.		/5
Execution		/5
Sufficient data gathered to support interpretation and		
conclusions and organized on a table or chart.		15
Experiment done at least twice.		/5
Graph made appropriately using mathematical and statistical methods.		/5
Graph accurately made showing sound data and comparisons.		/5
Well written explanation of the graph with accurate data analysis.		/5
Interpretation and Conclusion		/5
Shows sound, thought out, accurate interpretation.		
Shows strong, reasonable conclusions.	_	/5
Shows strong application to real-world ideas.		/5
Student learning is evident in the writing.		/5
Overall Journal Presentation		/5
Neat, organized, easy to follow, and complete.		
Make sure you look at each point value before you give a score.	Side One Tota	al /100

## 2019-20 ELEMENTARY SCHOOL STEM FAIR SCIENTIFIC DISCOVERY PROCESS JUDGING SHEET

(Continued)

#	(Continued)  Display Interview and Project Design	Please Write Comments
	Display, Interview, and Project Design	riease write Comments
Score		
15	Display  Scientific Discourse Process is next adited and	
/5	Scientific Discovery Process is neat, edited and physically sound.	
	Scientific Discovery Process is displayed: Purpose,	
/10	Hypothesis, Design Plan (all parts), Execution (data	
, 10	table, graph, and analysis), and Interpretation and	
	Conclusion. Research need not be on the board.	
	Scientific Discovery Process shows clarity of words,	
/10	graphics, legends, is self-explanatory, and flows in a	
	logical order. Supportive documentation cited on	
	board.	
/5	Board design demonstrates exceptional and significant	
	thought out creativity.	
	Interview	
/10	Student shows a basic knowledge of field studied closely	
	relevant to the project.	
	Student is able to clearly explain the Scientific Discovery	
/10	Process with the results of the project and its potential	
	impact on science.	
	Student gives thoughtful responses to questions and	
/10	understands the interpretation and limitations of the	
	results.	
	Student shows interest, enthusiasm, and a passion toward	
/5	the project and has quality ideas for further research.	
	Project Design Follow Through	
/10	Significant innovative, creative, and procedural approach	
	with ingenious use of materials and equipment to answer	
	the question or solve the problem equal to at least a	
	5 <sup>th</sup> /6 <sup>th</sup> grade level thinking.	
	Project shows exceptional strong, in-depth thought and	
/10	work to design and conduct an experiment with	
	excellent follow through to answer the question or	
15	solve the problem.	
/5	Student shows a large degree of independence in developing and conducting the project.	
/10	Student shows recognition of potential implications	
/10	in science and society, demonstrating strong,	
	interpretative conclusions with useful connections to the	
	real world.	
	Each line may have different point values. Please make	
/100	sure you look at each point value before you give a score.	
Side 2	P. C. C. C. G. C.	
Total		
/100		
Side 1		
Total		
/200		
Total		
Score		