

Kirkwood School District Science Fair Experiment Judging Sheet Grades 6-12

Log Book		Points Possible	Points Earned
Background Information	History: Highlights important people or discoveries	1	
	Significance: Why this project is worth investigating	1	
	Facts: Tells what is known about the topic and explains major terms and definitions	1	
	Method: tells how this topic has been studied before (steps, equipment, measurement)	1	
	Uniqueness of Problem: explains why this project/problem/method is original	2	
Problem	Bibliography: of at least three scientifically valid sources	3	
	Problem clearly asks a measureable, specific cause (IV)- effect (DV) question	3	
	Missing one of 5 criteria: circle missing criterion	2	
	Missing two criteria: Circle missing criteria	1	
	Missing more than two criteria: Circle missing criteria	0	
Hypothesis	Expresses a reasonable prediction about the expected outcome (in the DV) as a result of specific changes (IV)	3	
	Expresses a reasonable prediction about the expected outcome, but does not express it as a result of specific changes (IV)	1	
	No clear connection between the specific change and the expected outcome.	0	
Procedure	Step by step. Easy to understand and allows for exact duplication.	1	
	IV correctly listed.	1	
	DV correctly listed.	1	
	All necessary constant conditions including the control are listed to insure reliable and valid results.	1	
	Only metric units of measurement are used to design the experiment and record the results.	1	
Data	Control or initial setting of IV is tested at least three times or is not applicable.	3	
	Trial run conducted and logged	1	
	At least three changes for the IV and two trials conducted for each change.	5	
	At least 2 changes for the IV and 1- 3 trials conducted for each change.	3	
	One change for the IV with 1- 3 trials.	1	
	Completed data table contains raw data completed during experiment	1	
	Data table title shows the IV-DV relationship.	1	
	Data table rows and columns are clearly labeled.	1	
Graph	DV data is recorded and averaged.	1	
	Title of graph shows IV-DV relationship	1	
	Both axes are appropriately labeled and scaled	1	
	Averages for each tested IV are clear.	1	
Conclusion	Trends/relationships in the data are indicated appropriately.	2	
	Provides an accurate reaction to the hypothesis as compared to the resulting data	1	
	Explains whether the experiment results were/weren't supported by the research conducted prior to the experimentation	1	
	Inferences are suggested to describe why the results may have happened	1	
	Provides information about what was learned as a result of this project	1	
Reflection Questions	Student gives explanations to tell what the resulting data "means."	2	
	What potential impact might this topic have on society or the environment?	2	
	What have you learned from your experience on this project?	2	
Overall Logbook	If you could start over, what changes would you have made to this experiment?	2	
	Contains detailed thoughts, observations, revisions and actions made during the entire process of project completion.	7	
	Entries are dated consistently	1	
	Contains detailed research notes	1	