



# WVA Science Fair

## Judging Rubric



CATEGORY	EXCELLENT (4)	GOOD (3)	FAIR (2)	POOR (1)
<b>Display and Creativity</b>	includes creativity and going beyond traditional or existing idea. Board is neat, attractive, and creative. Graphs and charts are properly labeled. Spelling and grammar are correct.	Includes Different perspective on a traditional idea. Board is neat and attractive. Graphs and charts are mostly labeled. Spelling and grammar are mostly correct.	Includes expanding on an existing idea. Board is neat hand written. Graphs and charts have been attempted. Grammar and spelling need work.	Includes a board that is poorly done with no evidence of effort. No creativity. Results written directly on board. Graphs and charts are missing.
<b>Oral Presentation (overall impression)</b>	Scholar conveys confidence in talking about the project, makes an eye contact with the audience frequently, does not stare at poster more than 3 seconds at a time, and voice is clear and easy to understand.	Limited eye contact, needs to refer to poster occasionally; voice is quiet but easy to understand.	No eye contact, reads from board; voice is clear and able to understand.	No eye contact, reads directly off board; voice cannot be heard or understand.
<b>Hypothesis/ Define the Problem</b>	Thoroughly developed with reasoning. Ex: "I think...because..." or a clearly defined problem to be solved or question to be answered.	Sufficiently developed.	Partially developed	Major flaws.
<b>Procedures/ Engineering Design Solutions</b>	Easy to follow sequence of the Scientific Method or Engineering Design Process. Steps are listed chronological order or numbered order. This part shows the stages of the project so that another person can carry out the experiment.	Somewhat easy to follow sequence of the Scientific Method or Engineering Design Process. Steps are listed, but not necessarily in chronological or numbered order. An audience might question what comes first, next, them, etc.	Somewhat difficult to follow because of lapses in the sequence of the Scientific Method or Engineering Design Process. Some steps are missing and should be included in order to carry put the experiment.	Difficult to follow, with nor sequence of the Scientific Method or Engineering Design Process. Steps are missing.
<b>Investigation Trials (5th grade and above)</b>	Experiment was performed 3 or more times and/or sample size was exceptional, or engineering design was tested 3 or more times.	Experiment was performed 2 times and/or sample size was adequate, or engineering design was tested 2 times.	Experiment was performed 1 time and/or sample size was minimal, or engineering design was tested 1 time.	Experiment was incompletely, or engineering design was not tested.



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<b>Data Collection</b>	Project captures a detailed sequence of the process and steps, including all observations, data collection.	Project captures sequence of the process with moderate detail. Includes most of the observations and data collected.	Project contains minimal documentation of the experimental procedure.	No documentation is provided..
<b>Results/ Data Analysis</b>	Data directly relates to the hypothesis/question/ problem and is clearly presented in (at least 3) the form of a table, chart, graph etc.	Data is reasonably presented and shows a good relationship to hypothesis/question/ problem.	Data is minimally presented and shows some relationship to hypothesis/question/ problem.	Data is not presented and no relationship to hypothesis/question/ problem is evident.
<b>Conclusion</b>	A logical conclusion has been drawn based on the data collected or the design(s) being tested. Conclusion includes rejection or acceptance of the hypothesis (hypothesis must be restated or modified)	A reasonable conclusion has been drawn based on the data collected or the design(s) tested. Conclusion includes rejection or acceptance of the hypothesis.	A fairly reasonable conclusion has been drawn based on the data collected or the design(s) tested.	The conclusion drawn or solution designed is not shown to relate to the data collected or design(s) tested.
<b>Evaluation/ Applications</b>	The experiment or design raises a new hypothesis/question/ problem AND has real- world applications.	The experiment or design raises a new hypothesis/question/ problem OR has real-world applications.	The experiment or design minimally describes real-world applications.	The experiment or design does not raise a new hypothesis/ question/problem and does not have real- world applications.
<b>Bibliography</b>	References are listed in alphabetical order. At least 5 references listed.	References are listed in alphabetical order. At least 3 references listed.	References are listed in/out of alphabetical order. At least 2 references listed.	No references were listed.