Science Fair Project Rubric **Score _____/76**

Scoring: 0=Not presented, 1=Missing most items and/or not presented to standard, 2=Items presented but not to standard, 3=Most items presented to standard, 4=All items presented to standard

Item	Description	Point Scale
Science Fair Journal	• Evidence of a data/log notebook completed throughout the scientific process and investigation (in ink)	0 1 2 3 4
Template	• All appropriate slides and writing prompts have been removed.	0 1 2 3 4
Title Page	• Appropriate Title and identification of student, class, and teacher	0 1 2 3 4
Abstract	• Template used and appropriate information completed. Three future research questions are formulated	0 1 2 3 4
Research Paper	• Prior knowledge and multiple sources of credible research evident in student development of research question.	0 1 2 3 4
Research Question	• Relevant question formed from research that is numerically measurable and testable. • Research question is written, "How does the IV affect the DV?	0 1 2 3 4
Hypothesis	• Hypothesis presented is based on credible research and testable. Written appropriately, "If the IV affects the DV, then (prediction). This will happen because (based on scientific research)."	0 1 2 3 4
Variables	All variables identified: (Metric units given, when applicable.) • Independent Variable ○ Levels of IV • Dependent Variable • Constants (variables that were to remain the same and to insure a controlled investigation)	0 1 2 3 4
Methods	Safety Guidelines identified	0 1 2 3 4
	Materials list with quantity and sizes that used appropriate metric units	0 1 2 3 4
	Procedures: Clearly numbered outline of a controlled experiment that can be easily replicated and will prove/disprove hypothesis. Three trials are reflected for each level of IV. No personal pronouns used. Appropriate tools and metric units used.	0 1 2 3 4
Data Table	Data recorded in an appropriate chart. Quantitative data collected in appropriate measurements (metric units)	0 1 2 3 4
Graph	Appropriate graph created with average data to accurately represent the data and analyze. Graph labeled appropriately.	0 1 2 3 4
Data Analysis	Template used and all items represented: No Personal Pronouns • Research question ("How does the IV affect the DV") • Hypothesis with expected Results (If _____, then _____.) • Average data for each level of IV given, DV identified, and with appropriate units (Metric units, if applicable) • Results explained based on prior research • Validity and reliability of the results are determined and communicated by identifying 3 sources of error and how to avoid in the future.	0 1 2 3 4
Conclusion	Template used and all items included: Data is rejected or accepted. Reasonableness of the results evaluated. Did the results make sense? Research is evaluated and compared to results. Hypothesis is refined based on the data.	0 1 2 3 4
Future Research	Template used and all items included. New research questions are formulated based on the investigation.	0 1 2 3 4
References	Work Cited Page – Included a minimum of 5 credible sources	0 1 2 3 4
Pictures	Three pictures of project. (Example: materials, beginning of trials, and end result)	0 1 2 3 4
Slides are in order, legible with labels and descriptions completed with correct spelling and grammar.		0 1 2 3 4