

Science Fair Project: Points Possible

Criteria		Comments		
Backboard/ Alternate Method – 20pts.		Includes all elements from handout. Neat. Logically arranged top—bottom, left—right. If using alternate method then the slides would be in the same order (Title, Name, Problem/Purpose, Independent and Dependent Variables, Hypothesis, Materials, Safety, Procedure, Abstract, Data tables, Pictures, Graphs, Results/Data Analysis, Discussion, and Conclusion)		
1	2	3	4	5
Missing more than half of the elements and/or is not in the proper order and is poorly designed.	Missing ¼ of the elements and/or is messy and cannot be easily viewed. There are several issues regarding: graphs, pictures, abstract or data tables.	Missing some of the elements one of which could be: pictures, graphs, data, title, name, and hypothesis. There is an error with any of the elements.	Missing 1 or 2 of the elements listed above and/or is not neat or out of the order as instructed and indicated above. There could be minor errors with any of the elements.	All of the elements are included as listed above and in handout. Neat, creative, and eye catching. There are no errors with any of the elements.

Points earned: _____ x 4= _____

Binder – 20pts.		Organized according to handout. All science fair paperwork and human subject forms. <u>Graded</u> Background Research and <u>graded</u> Research plan		
1	2	3	4	5
Is missing at least half of the elements as described in the handout given and above. Is not neat and written in pencil.	Is missing ¼ of the elements described in the handout given and above Is not neat.	Is missing some of the elements described in the handout given and above. Neatness Issues. Paperwork missing or graded work missing.	Missing 1 or 2 elements listed above and in the handout given and/or Is not in order as instructed and indicated. Some issues with neatness	All of the elements are included as listed and instructed in handout. Is neat and is either written in pen or typed.

Points earned _____ X 4= _____

Journal – 20pts.		Frequent data entries. All data. All calculations. Rough drafts of graphs and tables. Rough drafts of Discussion and conclusion. Individual notes and reflections.		
1	2	3	4	5
The journal contains minimal entries and is not neat.	The journal some entries but is missing half of the elements listed above.	The journal has good entries but is missing key information necessary to complete the project.	The journal has all of the elements but is not neat and not well organized.	All of the elements are present and clearly reflects the project and is well organized and designed.

Points earned _____ x4= _____

Project Design – 40 points		Criteria:		Comments:	
Hypothesis and Variables (10 Points)		Clear, concise, correctly identified, measurable			
1	2	3	4	5	
Variables are not properly identified. The hypothesis is not clear and does not properly explain or represent the experiment.	At least one of the variables is properly identified, but the hypothesis is still unclear.	Both of the variables are properly identified but when applied in the hypothesis mistakes are made.	Variables are identified and hypothesis is clear but the because statement needs work	All of the elements listed above are identified and satisfied.	
Points Earned		X2=	Total:		
Procedures/Method 5 points		Experimental procedures are logical and appropriate. Experimental conditions are controlled. Number of experimental subjects and/or trials is exhaustive.			
1	2	3	4	5	
Procedure is not logical and/or appropriate. Materials and safety are not properly addressed. Issues with the trials.	Procedure is logical but hard to follow. Materials and safety are minimally addressed and it is not clear if enough subjects/trials have been addressed.	Procedure can be somewhat followed and conditions have been controlled. There are questions about materials, safety, and subjects/trials.	All elements are addressed but there are questions about materials and safety	All elements listed are fully addressed and satisfied.	
Points Earned			Total:		
Data Analysis 5 points		Analyze and explain data gathered. Outline relationships between variables tested			
1	2	3	4	5	
Data is not explained and there is very little information on the variables tested with no comparison of the trials, subjects, or variables themselves.	Data is not fully explained and is only listing what was tested with no comparison or explanation of the relationships tested.	Data is explained but is missing major key points in explaining the relationships between the variables, comparing subjects or trials.	Data is explained but is missing some key minor points regarding the variables, subjects or trials.	Data is fully explained by comparing and contrasting the variables tested including all of the subjects tested or trials.	
Points Earned			Total:		
Discussion 10 points		Apply background research to experimental findings. Did you get the result you expected? Explain. Did experimental results display accuracy and precision? Outline possible sources of error. Explain how methods could be improved.			
1	2	3	4	5	
Less than half of the criteria listed above have been met and sentences are poor.	Only half of the criteria have been met and sentences are not in a fluid paragraph with poor structure.	Some of the criteria have been met but sentences are poor and there needs to be more detail.	Most of the criteria above have been met but there are a few key points missed.	All of the criteria listed above have been met.	
Points Earned:		X2=	Total:		

Conclusion 10 points	Restate hypothesis. Cite your experimental data in accepting or refuting your hypothesis. Discuss real world applications for your experimental results and discuss why you chose your project.			
1	2	3	4	5
Less than half of the criteria above have been met. Sentences are poor.	Only half of the criteria that are stated above have been met. Poor sentence structure has been used and there are errors using the non-negotiables.	Some of the criteria that are stated above have been met, but key points have been missed and more information needs to be included to create a good conclusion.	Most of the criteria that are stated above have been met, but some elements have been missed.	All of the criteria that are stated above have been met. Complete sentences have also been used.
Points Earned:		X2	Total:	

Rubric Included (5 point deduction if not included): **yes or no**

Total Points Earned: _____ x2=

Total Project Grade: _____

Student(s) Name(s): _____

Class Period: _____

If the project is not turned in on the due date: November 18th (A) November 19th (B) then points may be deducted (up to 10%) of the total project grade.