

Science Fair

1. **Paper**: The lab report should be a detailed description of the project and needs to be separate from the display board. It should contain these sections:
 - **Purpose** – Why did you wish to do the study? What did you hope to find out?
 - **Problem/Question**- A question or problem that is testable and can be answered.
 - **Hypothesis** – Predict the results of your experiment before beginning. It does not matter if your hypothesis ends up being supported by your experiment. It only matters that your hypothesis is clearly stated and the experiment is designed to test the hypothesis.
 - **Procedure** – How will you do your experiment? Test only one variable. Use a control group for comparison. Write a step-by-step list of procedures. Make sure your procedure is well-planned and approved before beginning.
 - **Results** – What measurements did you take? Organize the data into tables, and/or charts.
 - **Analysis**- Make a graph of YOUR data. What does the data from your chart and graph mean? Interpret the data that was collected in YOUR experiment.
 - **Conclusion** – Do your results support your hypothesis? What did you learn from your experiment? Any changes if doing again in the future?
 - **Bibliography** – This lists all the sources you consulted during this study.

2. **Display**: the display presents what was done in the study. It will include a display board, materials used in the experiment, and possible lab set-up. It will contain a clear and concise summary of each of the elements mentioned above.

3. **Interview**: Each student will be interviewed by judges. The student should be prepared to explain in words each of the elements described above.

<i>Completeness</i>	<i>Points Possible</i>	<i>Points Received</i>
Project has a purpose, problem, hypothesis, procedure, results, conclusion, and bibliography that are typed.	20	
Has a project board that is neat and organized in a logical sequence.	10	
<i>Scientific Value</i>		
Hypothesis answers the question	30	
Results are in chart/table and graph form and are easy to understand.	50	
Conclusion relates to hypothesis (wraps up the experiment)	50	
Display board is creative	30	
Interview	10	
Total	200	

Student Name(s): _____ / _____

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Preparing the Display Board

Prepare all parts before beginning assembly:

- Cut letters neatly, press out letter, or purchase letters for captions. Computer-manuscript or block printing may be used.
- Sketch drawing and graphs in pencil first and then retrace with a marker.
- Use overhead or opaque projector to enlarge drawings, if needed.
- Label photos, drawings, and graphs properly.
- Place text and drawings on separate, plain white sheets first.
- Attach each white sheet to a colored paper mat or poster board and then mount each mat on the display board.
- Sequence parts in a logical order.

3 – Sided Display – Limits of the Exhibit Display Area

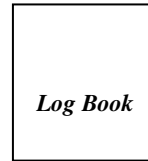
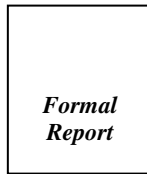
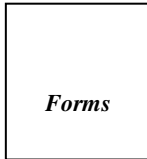
- All projects must have a free-standing backboard.
- I may use my own creativity to make my display.
- This diagram however, gives me the limits of the dimensions.
- The maximum size limits are 76cm (30in), front to back 91cm (36in) side to side, and 274cm (108in) above the floor.
- The tables are 76cm high.

A LOGICAL DISPLAY ARRANGEMENT

<u>PURPOSE</u>	<u>PROJECT TITLE</u>	<u>RESULTS</u>
<u>HYPOTHESIS</u>	<u>RESULTS</u>	<u>GRAPHS</u>
<u>PROCEDURE</u>	<ul style="list-style-type: none"> • PHOTOGRAPHS • DRAWINGS 	<u>CHARTS</u>
<ul style="list-style-type: none"> • Materials • Variables • Step-by-Step Directions 		<u>CONCLUSIONS</u>

Science Fair Continued

(No liquids on Display/Plants to be covered)



Although an attractive presentation is important, remember, the display is not the project. It is a display of the work that was conducted for the project. **Judging is not based on the presence or absence of the experimental apparatus or samples.** The first consideration of the display should be the safety of the observers, particularly small children. When in doubt, drawing and photographs should be substituted for the actual articles. See RULES!