

Science Fair Project

Name: _____ Date: _____

Due Date	Section	Description	Total Possible	Your Grade
	Title Page	Title should be short, catchy, and fun In the center of the title page, include your title, name, and school name.		
	Table of Contents	An organized list of each section and what page it can be found on. Sections should be placed on the left of the paper with the corresponding number to the right. ...not down the center.		
	Overall Packet	Packet must be in APA format, 12 font size, and Times New Roman. EVERY page must have a running head, a page heading, a page number, and every page must be double spaced. Use APA format - http://owl.english.purdue.edu/owl/resource/560/01/ OR www.apastyle.org		
	Statement of Problem/Question	A proper problem should be in the form of a question. Ask questions that begin with "what", "which", "why," and "how."		
	Abstract	This is a brief summary of your <u>complete project</u> . Should be a few paragraphs in length. Every abstract should include the following... Introduction (describe the purpose for doing this project) Problem Statement (Identify your problem), Procedures (our approach for investigating your problem), Results (What answer did you obtain?), Conclusion (State what your science fair project or invention contributes to the area you worked in).		
	Research Paper	500 words (minimum) to 750 words (maximum), about 2-3 pages submitted on _____ Written in third person Must be written in 12 point font and Times New Roman record your information in your journal as you are researching Include your reference page - all sites used to collect information for the research paper. No blogs or wikis are allowed as references Use APA format - http://owl.english.purdue.edu/owl/resource/560/01/ OR www.apastyle.org Use 5 (minimum) to 10 sources. Examples would be journal articles, websites, textbooks, periodicals, etc . Use APA style of citation. Citationmachine.com is fantastic. Sources must be listed in alphabetical order All quotes and any information taken from any source must be cited in your paper.		

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Hypothesis	Shows cause and effect...used linking words - If... Then... Because... If (what will you do); then (what will happen); because (why will this happened).		
Materials	Detailed list of items and quantities for all materials used. MUST use scientific measurments ie. cm, mm, L, g		
Procedure/ Experimentation	All steps must be in the order in which you performed them. Your procedure must show your control The procedure should be VERY DETAILED. Someone should be able to complete your project whithout having to ask any questions. Procedure must be numbered step by step <u>with one step per number. Each step must also include all measurement amounts using the scientific measurement</u> Procedure MUST include all <u>precautions</u> and <u>disposal methods</u> . Each step must begin with an action word. For example pour, move, measure, place, collect, etc.		
Data	Charts (organized list of all gathered data) AND graphs (diagram showing the relationship between variable quantities) <u>Every project should have both a chart and a graph! This should be found in both the packet and the board.</u> <u>Charts and graphs must be done on a computer...no hand drawn charts and graphs.</u> Pictures may be taken and used in the packet, board, and journal. All pictures must be taken by the student conducting the experiment. Data must be quantitative...you must measure something using a tool. You MUST use scientific measurements. <u>Qualitative</u> observations should only be included in your journals (observations during experiment). Some examples would be: The nail began to rust, the plant began to wilt, the container was very dirty, the trash smelled a lot, etc.		
Data Analysis	In paragraph form, explain the information shown in your graph. In other words, interpret your graph.		
Conclusion	When (what did you do); then (what actually happen); because (why did this happened). Express in another sentence if your hypothesis was proven or disproved. And lastly, give a comprehensive statement linking your results to your research...Show me how brilliant you are now that you're done with your experiment.		

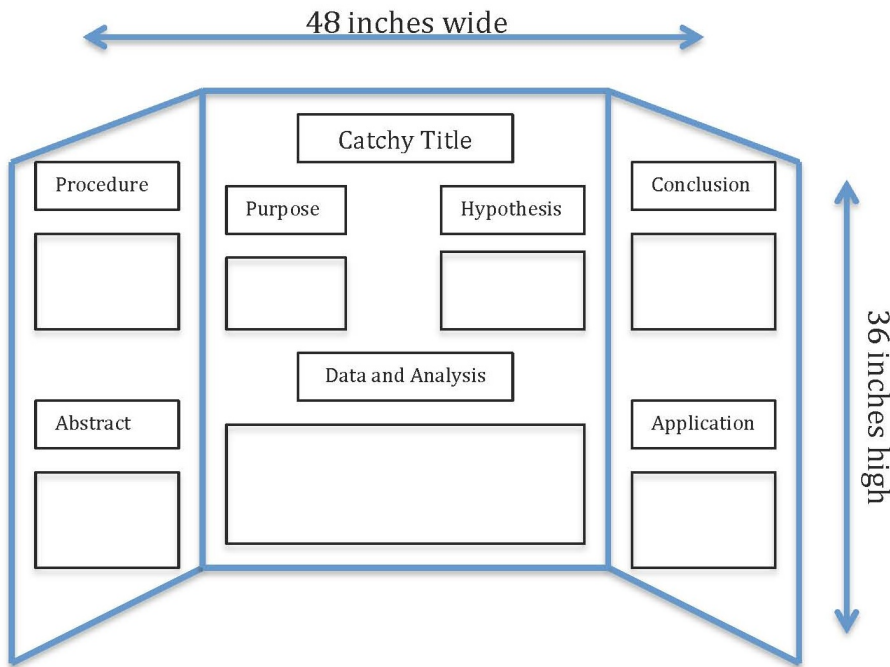
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Acknowledgements	Document and thank all of the people that helped you with your project. Your acknowledgements may include your parents, teacher, siblings, lab instructor etc. Please also include how each of these people helped during your project.		
Recommendations	A narrative expressing what suggestions or improvements you would make to this experiment?		
Application	How can your findings be applied to another experiment and everyday life.		
Display Board	<p>All information must be typed, Times New Roman font, and cut and presented neatly on the board.</p> <p>Please check your spelling and grammar</p> <p>For each section on the board, please refer to the sections above for specific directions. Each section should have a separate title above each area. Shown in diagram.</p> <p>Board size - MUST be 36in X 48in Board must be layed out as shown in the example diagram.</p> <p>Board MUST include -Title, Procedure, Abstract, Purpose, Hypothesis, Data and Analysis, Conclusion, and Application</p>		
Journal	<p>Your journals MUST include EVERYTHING on the list below.</p> <ul style="list-style-type: none"> * Bound sprinal or composition book * Cover must inlcude your Name, phone #, and teacher name * Everything must be written in ink * EVERY entry should be dated, note the place, time, and exactly what you did. Every entry must be on a new page. * Include all your research (not your research paper but all your information gathered for your research paper) * Include a brief summary of the research you reviewed as well as ideas you thought during your research * Problem statement (stated as a question) * description of equipment (materials list with detailed quantities). * Procedure list...detailed description of anything constrcted and the step by step process of your experiment. MUST include precautions and disposal of all chemicals, materials, and organisms used ie plants. Include all statistical analyses (equations used and show calculations) * Raw data - all data found each day * observations during experimentation that are not part of your raw data (quantitative) observations will be qualitative. * List of contacts - anyone you spoke. Include name, phone numbers, and email. 		

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What's Due?

- * Science Fair packet
- * Research Log
- * Science Fair Board

Science Fair Packet

Packet must include the following sections

- * Title
- * Table of Contents
- * Statement of problem
- * Abstract
- * Research paper
- * References
- * Hypothesis
- * Materials
- * Procedure
- * Data
- * Data Analysis
- * Conclusion
- * Acknowledgement
- * Recommendations
- * Application

Research Log

A detailed daily recording of your work on your science fair project. Refer to the research log rubric for directions.

Science Fair Board

- Title
- Procedure
- Abstract
- Purpose
- Hypothesis
- Data and Analysis
- Conclusion
- Application