Science Fair Journal
2018-2019

This Journal Belongs To:

_________________________________

Teacher/Grade/Period:

_________________________________
## Timeline:

<table>
<thead>
<tr>
<th>Task</th>
<th>Date</th>
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<tbody>
<tr>
<td>Statement of Problem</td>
<td>September 28th</td>
</tr>
<tr>
<td>Review of Literature (RD)</td>
<td>October 12th</td>
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<tr>
<td>Review of Literature (FD) with Bibliography</td>
<td>October 19th</td>
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<tr>
<td>Introduction and Hypothesis</td>
<td>November 2nd</td>
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<tr>
<td>Variables and controls</td>
<td>November 9th</td>
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<tr>
<td>Materials and Procedures</td>
<td>November 16th</td>
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<tr>
<td>Data and Results</td>
<td>December 7th</td>
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<tr>
<td>Conclusion and Recommendations</td>
<td>January 11th</td>
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<tr>
<td>Abstract and Acknowledgements</td>
<td>January 18th</td>
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<tr>
<td>Display Board Due</td>
<td>February 1st</td>
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<tr>
<td>GPA Science Fair</td>
<td>February 11th</td>
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<tr>
<td>Greater San Diego Science Fair <em>must qualify</em></td>
<td>March</td>
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<tr>
<td>ISEF (Intel International Science and Engineering Fair) <em>must qualify</em></td>
<td>May 12&lt;sup&gt;th&lt;/sup&gt;-17&lt;sup&gt;th&lt;/sup&gt; Phoenix Arizona</td>
</tr>
</tbody>
</table>

Dates are subject to change
Table of contents:

Abstract
Acknowledgements
Introduction
Review of Literature
Statement of Problem or Purpose
Hypothesis
Materials
Procedure
Findings
Conclusion
Recommendations
Bibliography
Appendix
Raw Data
Abstract

The abstract is a summary of your project and is written AFTER YOUR WORK IS COMPLETED.
It is 200-250 words.
Acknowledgements

This is where you thank all the people who helped you. No more than a single page.

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Introduction

Here, you tell why and how your project came to be. In no more than a single page, give a brief overview of the background and goals of your project, and why you chose the project?

Examples:

“Ever since I was a little kid, I’ve dreamed of being a world class skateboarding champion...

“I’ve also worried about the dangers of...

“My topic has great scientific implications because...
Review of Literature

This section of your notebook is a report on the topic you have researched for your project. Write it so that a reader can see how much work you have done. This report should be 5 paragraphs typed and will summarize the information you found about your topic before you start your experiment. This report should be in MLA format:

- Introductory Paragraph (generates interest and indicates what is coming)
- Main body (3 paragraphs that describes information you found while researching your topic- the materials you will be using, methods, any other interesting facts)
- **COPYING, REPHRASING OR REPORTING ON SOMEONE ELSE’S WORK OR IDEA IS ONLY OKAY IF YOU GIVE THEM CREDIT AND CITE YOUR SOURCE!!!**
- Concluding Paragraph (pulls all the information together)
State the problem for which you want to find an answer. This is where you state what “intrigued” you about your topic, why you are so “passionate” about it.
Hypothesis

Based on your review of the literature about your topic, the research paper you have written and the problem you have identified, you are ready to ask a question about your topic and make an “educated guess” or “prediction” as to what the answer/outcome will be.

It must be an If ___ Then ___ Statement:

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Variables and Constants

Research and determine what your variables and constants will be:

Independent Variable ________________________________

Dependent Variable_______________________________

Control________________________________________

Constants_______________________________________

*This section is exempt for students doing an engineering project*
Materials

Everything you used in your experiment should be listed on this page:

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Procedures

On this page give a step-by-step description of how you tested your hypothesis. More details are better than too few!

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Data

Data Tables, graphs, etc. Use this as a rough draft and then use a graphing software on a computer for your final draft. Google forms is the easiest to use. Add more lines to the table if you need it.

<table>
<thead>
<tr>
<th>Independent Variables (What you are Changing)</th>
<th>Trial 1 (Dependent Variable-What you are Measuring)</th>
<th>Trial 2</th>
<th>Trial 3</th>
<th>Average</th>
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</table>
Discussion (results and conclusion)

Results

Put your data into words. Describe your tables and graphs here:

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Conclusion

How did all your tests and experiments work out? This is where you give the answer to your hypothesis. What did you do, what did you learn, and did you have any problems with your experiment?
Recommendations
If you were to do this project again, how would you improve it? How would you change your testing procedure? Would you do more research? How could you improve the project?
Could you extend it into a project for next year? Why would you not do it again?

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