

# Science Fair Project Report (Sample)

## Requirements for Written Report

**Note:** Project Report is to be at display on day of set-up and left for judging day.

1. Written when study ends.
2. Use **Front Side** of each page (unlimited number of pages).
3. Use 10 or 12 pt. Font minimum; Double Space or use 1.5 spacing, except for Abstract.
4. Single space between sections or parts if writing a step-wise method.

<b>A</b>  <p style="text-align: center;">Title of Project</p>  <p style="text-align: center;">Mary Smith Einstein High School Alamo Regional Science &amp; Engineering Fair St. Mary's University February 1, 2, &amp; 3, 2017</p>	<b>B</b>  <p style="text-align: center;"><b>Abstract</b></p> <ul style="list-style-type: none"> <li>▪ 250 words or less</li> <li>▪ Single Space</li> </ul>  <p style="text-align: center;">*Note: This is <b>NOT</b> the Abstract/Certification <b>Form</b> for the science fair.</p>	<b>C</b>  <p style="text-align: center;"><b>Table of Contents</b></p> <p style="text-align: center;">(May or may not be included)</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Materials/Method/Procedure</li> <li>3. Data/Observations</li> <li>4. Discussion of Results</li> <li>5. Conclusion</li> <li>6. Practical Application</li> <li>7. Future Expansion</li> <li>8. Acknowledgments</li> <li>9. Bibliography</li> </ol> <p style="text-align: center;">(Additional information if student desires)</p>	<b>D</b>  <p style="text-align: center;"><b>Introduction</b></p> <ul style="list-style-type: none"> <li>▪ Rationale (Brief background and Importance of study)</li> <li>▪ Question</li> <li>▪ Purpose/Problem/Objective</li> <li>▪ Hypothesis/Null Hypothesis</li> <li>▪ Indicate Variables</li> <li>▪ Can be more than 1 page</li> </ul>
<b>E</b>  <p style="text-align: center;"><b>Materials</b></p> <ul style="list-style-type: none"> <li>▪ List materials used or include in method</li> </ul> <p style="text-align: center;"><b>Method/Procedure</b></p> <ul style="list-style-type: none"> <li>▪ List steps used or</li> <li>▪ Describe steps in paragraph form or outline form.</li> <li>▪ May use photos, drawings, diagrams, flow charts, etc.</li> <li>▪ No. of pages depends on student's procedure</li> </ul>	<b>F</b>  <p style="text-align: center;"><b>Data and Results</b></p> <ul style="list-style-type: none"> <li>▪ Observations/Results</li> <li>▪ Visuals may be charts, graphs, diagrams, photos</li> <li>▪ Statistical Analysis may be used.</li> <li>▪ Number of pages depends on what students wish to include.</li> </ul>	<b>G</b>  <p style="text-align: center;"><b>Discussion of Results</b></p> <ul style="list-style-type: none"> <li>▪ Can be a continuation of the "Data and Results"</li> <li>▪ Results, observations, or data are explained</li> <li>▪ Number of pages depends on the depth of discussion</li> </ul>	<b>H</b>  <p style="text-align: center;"><b>Conclusion</b></p> <ul style="list-style-type: none"> <li>▪ Refers to the hypothesis</li> <li>▪ State whether or not data agrees, disagrees, supports or does not support the hypothesis.</li> </ul> <p style="text-align: center;"><b>Practical Application</b></p> <p style="text-align: center;">What is the importance of this study? Of what use is a study such as this?</p>
<b>I</b>  <p style="text-align: center;"><b>Future Expansion</b></p> <ul style="list-style-type: none"> <li>▪ State question(s) pertaining to the same study for expansion of the study.</li> <li>▪ Questions do not have to be long.</li> <li>▪ What are some new ideas as to how to expand or improve the study in re- ference to new questions?</li> </ul>	<b>J</b>  <p style="text-align: center;"><b>Acknowledgements</b></p> <p style="text-align: center;">Express gratitude to those that made study possible by being supportive <b>WITHOUT</b> mentioning names of persons, institutions, companies, etc.</p> <p style="text-align: center;">Acknowledgements should be very general!! <b>NO NAMES!</b></p>	<b>L</b>  <p style="text-align: center;"><b>Bibliography</b></p> <ul style="list-style-type: none"> <li>▪ Use proper citing format for books, journals, and websites.</li> <li>▪ Websites should include author of article if given, title of article and the date the article was posted or retrieved from website.</li> </ul> <p style="text-align: center;"><b>NOTE: Must have at least 5 reliable resources.</b></p>	

## Explanation of Components

- C
- The Table of Contents can also be titled: "Outline".
  - Page numbers, detailed subtitles can also be used.
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- D
- The Introduction is background information on the topic.
  - Good idea to cite some references.
- 
- E
- Materials can be listed such as Supplies, Chemicals, and Equipment separately or included in the Procedure.
  - Procedure (Methods, Experimental Design, or Protocol) can be outlined, by steps, phases or in paragraphs.
  - Use quantities, concentrations, and metric measurements where applicable.
  - When using **Human Subjects**, state gender, age, no. of subjects, and how confidentiality was established.
  - If **Vertebrate Animals** were used in the study, state the species, gender, where animals were obtained, and what animal care procedures were implemented.
- 
- F
- Charts, observations, tables, graphs, pictures, and diagrams can be included for the Data and Results.
  - Be sure to have Figure #, captions or titles to each item.
  - If each item is minimized, several items can be included in one page.
  - This can also be several pages long.
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- G
- The Discussion of Results section should refer to results/observations and an explanation as to what occurred.
- 
- H
- The Conclusion should be based on the data collected.
  - *"Does the data of results agree, support, accept the hypothesis, disagree, not support, or reject the hypothesis?"*
  - *"Therefore, it can be concluded that (refer to hypothesis). . . "*
- 
- I
- During a study, new questions come to mind. *"What were some new questions pertaining to the study?"*
  - Refer to different variables, concentrations, time span, more trials, etc.
  - *"How can the study be expanded? Can it be shortened?"*
- 
- J
- There should be **NO MENTION OF NAMES** of individuals, institutions, firms, etc.
  - The Acknowledgment should be general.
- 
- K
- Bibliography or References should be **properly cited** using an acceptable format.
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- Note:**
- Some students like to include an Appendix or a Glossary.
  - The Abstract is a **SUMMARY** of the whole study of at least 250 or less words. The Abstract is the first thing judges read! Special Award judges will ask us for a copy of the Abstract of winners for their publications. Be thorough and check for spelling and grammatical error!
  - The Science Fair Project Report is a report of the entire study including the data collected and analyzed which leads to a conclusion based on the hypothesis and data.

**IMPORTANT!!!**

**LEAVE the science project report at the display when dismissed from judging! The Blue Team judges will be evaluating those projects that are in the running for Grand Awards.**