

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 has ended.
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.

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| A <p style="text-align: center;">Title of Project</p> <p style="text-align: center;">Mary Smith Einstein High School Alamo Regional Science & Engineering Fair St. Mary's University February 25-26, & 28, 2016</p> | B <p style="text-align: center;">Abstract</p> <ul style="list-style-type: none"> ▪ 250 words or less ▪ Single Space <p style="text-align: center;">*Note: This is NOT the Abstract/Certification Form for the science fair.</p> | C <p style="text-align: center;">Table of Contents</p> <p style="text-align: center;">(May or may not be included)</p> <ol style="list-style-type: none"> 1. Introduction 2. Materials/Method/Procedure 3. Data/Observations 4. Discussion of Results 5. Conclusion 6. Practical Application 7. Future Expansion 8. Acknowledgments 9. Bibliography <p style="text-align: center;">(Additional information if student desires)</p> | D <p style="text-align: center;">Introduction</p> <ul style="list-style-type: none"> ▪ Rationale (Brief background and Importance of study) ▪ Question ▪ Purpose/Problem/Objective ▪ Hypothesis/Null Hypothesis ▪ Indicate Variables ▪ Can be more than 1 page |
| E <p style="text-align: center;">Materials</p> <ul style="list-style-type: none"> ▪ List materials used or include in method <p style="text-align: center;">Method/Procedure</p> <ul style="list-style-type: none"> ▪ List steps used or ▪ Describe steps in paragraph form or outline form. ▪ May use photos, drawings, diagrams, flow charts, etc. ▪ No. of pages depends on student's procedure | F <p style="text-align: center;">Data and Results</p> <ul style="list-style-type: none"> ▪ Observations/Results ▪ Visuals may be charts, graphs, diagrams, photos ▪ Statistical Analysis may be Used. ▪ No. of pages depend on what students wish to include. | G <p style="text-align: center;">Discussion of Results</p> <ul style="list-style-type: none"> ▪ Can be a continuation of the "Data and Results" ▪ Results, observations, or data are explained ▪ No. of pages depends on the depth of discussion | H <p style="text-align: center;">Conclusion</p> <ul style="list-style-type: none"> ▪ Refers to the hypothesis ▪ State whether or not data agrees, disagrees, supports or does not support the hypothesis. <p style="text-align: center;">Practical Application</p> <p style="text-align: center;">What is the importance of this study? Of what use is a study such as this?</p> |
| I <p style="text-align: center;">Future Expansion</p> <ul style="list-style-type: none"> ▪ State question(s) pertaining to the same study for expansion of the study. ▪ Questions do not have to be long. ▪ What are some new ideas as to how to expand or improve the study in re- ference to new questions? | J <p style="text-align: center;">Acknowledgements</p> <p style="text-align: center;">Express gratitude to those that made study possible by being supportive WITHOUT mentioning names of persons, institutions, companies, etc.</p> <p style="text-align: center;">Acknowledgements should be very general!! NO NAMES!</p> | L <p style="text-align: center;">Bibliography</p> <ul style="list-style-type: none"> ▪ Use proper citing format for books, journals, and websites. ▪ Websites should include author of article if given, title of article and the date the article was posted or retrieved from website. <p style="text-align: center;">NOTE: Must have at least 5 reliable resources.</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.
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- 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.
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- 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.
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- 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). . . "*
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- 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?"*
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- J
- There should be **NO MENTION OF NAMES** of individuals, institutions, firms, etc.
 - The Acknowledgment should be general.
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- 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.