



GENIUS Research Paper Template

General: All science projects **must submit** a Research Paper with their application to describe their research. It is limited to 15 pages, however title and reference pages are not included in page limit. You may use Calibri or Arial Fonts at 11 or 12 sizes. **Make sure to use following sections with suggested headings in your research paper.**

1. TITLE PAGE

- It should be title page by itself and should include the following information:
 - Project Title
 - Student (s) Name
 - School(s)
 - Country

3. ABSTRACT

- It must contain only what YOU did, and must not include the work of others. It should be less than 250 words. It is very concise summary of your work.
 - 1 broad sentence about your topic.
 - 2 or 3 sentences summarizing your introduction.
 - 1 or 2 sentences describing your purpose of the study.
 - Approximately 3 sentences describing the major methodology used.
 - Approximately 4 sentences describing the most important results.
 - 3 sentences summarizing your conclusions and discussion.

3. INTRODUCTION and GOAL- What is your research question?

- Explain what is known or has already been done in your research area. Include a brief review of relevant literature.
- If this is a continuation project, a brief summary of your prior research is appropriate here. Be sure to distinguish your previous work from this year's project.
- What is your goal? Include a description of your purpose, your research question, and/or your hypothesis.

4. METHODS - Explain your procedures for carrying out your project in detail.

- What did you do?
- What data did you collect and how did you collect that data?
- Discuss your control group and the variables you tested.
- Which equipment was used to collect data?
- DO NOT include a list of materials.

5. RESULTS - What were the result(s) of your project?

- Include tables and figures which illustrate your data.
- Include relevant statistical analysis of the data.

6. DISCUSSION - What is your interpretation of these results?

- What do these results mean?
- Compare your results with theories, published data, commonly held beliefs, and expected results.
- Discuss possible errors. Did any questions or problems arise that you were not expecting? How did the data vary between repeated observations of similar events? How were results affected by uncontrolled events?
- Discuss future research directions and plans



7. CONCLUSIONS - What conclusions did you reach?

- What do these results mean in the context of the literature review and other work being done in your research area?
- How do the results address your research question? Do your results support your hypothesis?
- What application(s) do you see for your work?

8. REFERENCES

- This section should not exceed one page. Limit your list to the most important references. This page does count towards 15-page limit.
- List the references/documentation used which were not of your own creation (i.e., books, journal articles).
- You may use a font size of 10 in this section