**Introduction**

Clearly introduce topic in such a way that the need for the project is compelling. Larger question or concern is clearly articulated. Two or more key citations from primary literature are included to effectively embed the research topic in the body of knowledge.

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**Research Question**

(1-2 Paragraphs): What is the main goal or question addressed by your research? How will it add to our existing body of knowledge?

Research question or hypothesis is clearly articulated and effectively connected to the introduction. Authors clearly explain how their work adds to the existing body of knowledge.

**Methods**

(2-5 paragraphs): What methods will you use to conduct your research? Be as specific as possible and include details like your sample size, number of replicates, etc. Your plan may change, but do your best to outline a detailed method. A flow chart of other visual organizer might be a nice way to present part of this section.

Methods are written in enough detail that another scientist could replicate the experiment. Specifics such as sample size, number of replicates, etc. are included. References are cited appropriately.

**Equipment, Reagents, Supplies and Other Needs.**

(1-3 Paragraphs and/or table): This section of your proposal should include a detailed list of reagents and supplies you will need to complete your research. If you have specific needs, include the manufacturer, item number, and cost in your list. This section should also include any specific lab space or equipment your project will require. In addition, consider whether or not you will need additional expertise and/or scientific mentors. If so, who will you use? What do you need them for? How much time do you anticipate needing?

Equipment and supply needs are effectively organized. List is complete. Additional needs (lab space, subject matter, expertise, etc.) are clearly articulate.

**Timeline**

Provide a detailed, week-by-week timeline for your project. This timeline should include specific action items for each week. Note that you typically have two to four class hours available to you for research each week. Your timeline should indicate how you will use this time as well as the additional hours you spend outside of class.

Detailed weekly timeline is provided. All critical deadlines are noted on the timeline. Responsibility for key tasks is clearly delegated to specific team members when necessary.

**Conclusion.**

(~one short paragraph): What are the most significant challenges you see for your group’s research?

Conclusion restates overall goal and highlights any challenges or unmet needs the project faces.

**Other Considerations:**

Although the sections differ from a formal report or poster, your team should agree to write it with the same level of quality. Be sure to include tables and other figures to support your proposal. These figures should be numbered and have captions as usual. We are willing to read and critique drafts before the due date if your team would like feedback.

Writing is professional and proofread with a minimum number of typographical errors. Sentences and paragraphs are complete and transition smoothly from one to another. References are cited appropriately. Any figures are appropriately labeled and referenced clearly in the text. Use of first person is minimized.

**Bibliography**: