

Project 2.2.4 Solution Proposal

Purpose

Identifying the best solution to a problem is a major step in the research and development process. The next step is to determine how you will complete the solution. Writing a solution proposal outlines the proposed research and lists resources and other needs of the project.

A written proposal is a formal request for permission or release. A proposal is similar to a written persuasive essay with more data and factual research. A well-written proposal is concise, simple, and easy to read. Consider readers who may not have knowledge of the topic or problem you are investigating. What does the reader need to know about your idea in order to give a favorable response?

Materials

Per pair of students:

- Computer with Internet access and word processing

Per student:

- Pencil
- *Agriscience Notebook*

Procedure

You and your partner will research your proposed solution and prepare a written solution proposal to submit for review and approval. The proposal should be a formal report that explains the research you will complete.

Review the *Project 2.2.4 Checksheet*. Your teacher will lead the class through identification of target completion dates for the most efficient use of time. Record these dates to help you with organization. Work through each component of the checksheet to develop your proposal. Use materials you have completed thus far to aid in completing the proposal.

Prepare your solution proposal in typed format. Print two copies of your proposal for peer review. Upon completing revisions, print three copies and save to your electronic storage. Submit one copy to your teacher and place the remaining copies in your and your partner's portfolios.

Conclusion

1. How do written proposals assist researchers in the problem-solving process?
It helps them get an idea of what they are going to do.
1. Of the proposals you read, which was the most likely to be approved? Why?

I didn't read anyone else's proposals.

Name: _____

Project 2.2.4 Checksheet

Criteria	Comments	Completion Target Date	Date Completed, Initials
Problem Statement • Use statement drafted in <i>Project 2.1.4 The Problem Statement</i> .			Kd
Background information: • The issue and any background information that may be necessary. • Region or area affected by the issue. • Demographics of the population.			Kd
Proposed Solution • Clear and concise statement of how the problem will be solved.			Kd
A list of needs for the solution: • Materials • Equipment and tools • Laboratory space • Professional answers and feedback • Expenses • Safety precautions			Kd
Procedures • How will research and development be conducted? • Set-up • How to collect data • Number of trials proposed			Kd
Data Analysis and Expected Results • Plan to collect and analyze data • Description of expected results based on solution proposed.			KD
Conclusion • The problem and proposed solutions are re-stated.			Kd
References • APA format • Use annotated references from prior research and any additional resources used.			Kd
Solution proposal has been reviewed by two other pairs of students.			Kd
Solution proposal has been adjusted according to feedback and submitted to the teacher for approval.			Kd

Name: _____

Solution proposal has been approved by the teacher.			Kd
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