

RESEARCH PLAN

Research Title:

NMJJGHJ

Author: Lastname, Firstname, MI / Grade&Section

Date:

RATIONALE

Include a brief synopsis of the background that supports your research problem and explain why this research is important and if applicable, explain any societal impact of your research.

RESEARCH PROBLEM

How is this based on the rationale described above?

The main goal of this study is to _____

This study specifically aims to complete these objectives/questions:

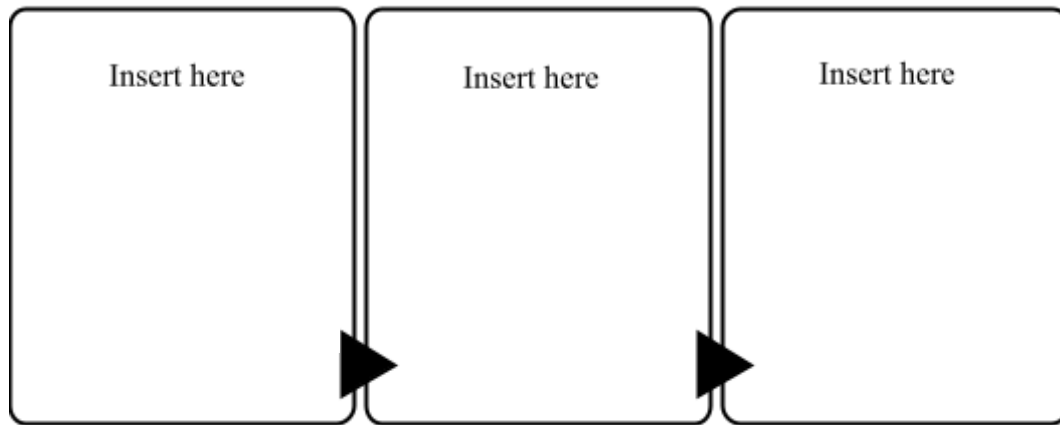
- 1.
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- 3.

HYPOTHESES

A hypothesis in a research plan is a clear, testable statement that predicts the relationship or difference between variables. It answers the question: *What do you expect to happen, and why?* Write the null hypothesis only.

ENGINEERING GOAL/S

An Input–Process–Output (IPO) framework is a simple way to show how a system, project, or research study works—from what goes in, what happens inside, and what comes out. It is commonly used in research papers



INPUT

These are the resources, variables, or materials needed for the study or system.

Examples:

- Materials (hardware, chemicals, tools)
- Data (survey responses, measurements)
- Participants
- Independent variables

PROCESS

These are the steps, methods, or procedures applied to the inputs.

Examples:

- Design and development
- Experimental procedures
- Data collection
- Data analysis
- Testing and evaluation

OUTPUT

These are the results, products, or outcomes after the process.

EXPECTED OUTCOMES

The Expected Outcome describes the probable outputs and effects of the study if the research is carried out successfully. It should be: Aligned with the research objectives, realistic and measurable, and based on existing literature or logical assumptions.

LIST OF MATERIALS

Item	Quantity	Cost

PROCEDURES

Detail all procedures and experimental design including list of materials, methods for data collection, and when applicable, the source of data used. Describe your project delineating what you will do and what will be done by your mentor.

RISK AND SAFETY

Identify any potential risks and safety precautions needed.
Potential Risks and Safety Precautions for --

1.

BIBLIOGRAPHY

List major references (e.g. science journal articles, books, internet sites) from your literature review. If you plan to use vertebrate animals, one of these references must be an animal care reference.

APA.FORMAT.com/article/215840-overview?form=fpf