

Student name: _____
Research Plan/Project Summary

Student number: _____
Class/Grade: _____

Research Plan/Project Summary (15 points)

I. Rationale: write a brief summary (5 sentences minimum) of the information that discusses your research problem, explain why your research is important and how does it contribute to society. *This information is normally in the introduction of the articles that you used for your literature review homework.

II. Research:

A. Research Question:

B. Hypothesis:

C. Independent and Dependent Variables:

_____ & _____

D. Goals of Research: (2-3 goals)

1. Goal #1: _____
2. Goal #2: _____
3. Goal #3: _____

E. Expected Outcomes (extended version of the hypothesis- what you think will happen in your experiment) (2-3 sentences)

III. Procedures: Write step-by-step procedures of your experiment or research.

A. Steps of the experiment

1. Step #1: _____
2. Step #2: _____
3. Step #3: _____
4. As many steps as your experiment will require

B. Risk and Safety: Identify any potential risks and safety precautions needed.

C. Data Analysis: Describe the procedure you will use to collect (measurements, tools, questionnaire) and analyze your data/results (i.e. graphs, mathematical calculations, etc.)

IV. Bibliography/References: List the major references from your literature review. If you plan to use vertebrate animals, one of these references must be an animal care reference.

REFER TO BibMe.org for assistance; Microsoft Word also can help you format your sources.

Last name of author, initial first name, (year of publication) Title of article. *Name of Journal, website, etc. (in italics)* page numbers, URL

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Science Fair Research Plan/Project Summary Requirements

____ () **Rationale**

____ () **Research Question**

____ () **Hypothesis**

____ () **Variables (Independent and Dependent)**

____ () **Goals and Expected Outcomes**

____ () **Procedures**

____ () **Risk and Safety**

____ () **Data Analysis**

____ () **Bibliography**

____ () **Required Forms**

1. ____ **Student Checklist (1A) Required for ALL Projects/Students**
2. ____ **Approval Form (1B) Required for ALL Projects/Students**
3. ____ **Checklist for Adult Sponsor (1)**

CIRCLE WHETHER you are working with (**HUMANS**), (**VERTEBRATE ANIMALS**),
potentially (**HAZARDOUS CHEMICALS**) or (**NONE OF THE ABOVE**)

*Is this a CONTINUATION of a PREVIOUS SCIENCE FAIR PROJECT? **YES/NO**

*Due date for **Research Plan/Project Summary** is Thursday, September 15th.

* Due date for **Student Checklist (1A) & Approval Form (1B)** is Thursday,
September 15th

Due date for **Checklist for Adult Sponsor (1)** is Thursday, September 29th

*Late submissions will incur penalties as stated in the course syllabus.