

Student name: _____
FINAL REPORT

Student number: _____
Class/Grade: _____

FINAL REPORT (50 points)

- *Will count for Quarter 3 as stated in the timeline.
 - **Should be submitted via email to VillaverdeScience@gmail.com by Thursday, December 1, 2016 as stated in the Timeline/Syllabus. The Subject area of the Email should be titled as follows: **LastName_Grade_FinalReport**
 - ***The Final Report document should ALSO be Saved As: **LastName_Grade_FinalReport**
 - ****If the students have not completed the data collection they should title it: LastName_Grade_FinalReport **DRAFT** (no points will be deducted for Drafts as long a students are collecting data and that all of the required steps have been followed.)
 - *****Students that are still collecting data should submit the Final Report with the preliminary (initial) results. They are responsible to submit the Final Report as soon as they have completed the experiment. This should be completed before January 1, 2017.
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Abstract (10 additional points that will count for Quarter 2)

- *It should be included at the beginning of the Final Report but in a separate page.
 - **Please, refer to the section (below) titled “Abstract” for specific requirements of this section.
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- *For the completion of the FINAL REPORT Refer to the Outline Handout & the Outline submitted and graded by the teacher.
- **Include any statistical data and information from the literature review.
- *****Cite** all information from sources in APA Style (Last name of first author, Year of Publication)
- ****Make any corrections based on the feedback provided for the Outline/Research Plan.

I. Introduction

- A. Background Information/History-** background research on the history of similar experiments or inventions; it is typically presented in the Introduction of the scientific articles.
- B. 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. (from Research Plan)

II. Research: (from Research Plan)

- A. Research Question
- B. Hypothesis
- C. Independent and Dependent Variables
- D. Goals of Research: (2-3 goals) (expand if necessary)

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

III. Procedures: Write step-by-step requirements for the procedures of your experimental design or research.

- A. EQUIPMENT/MATERIALS (NEW) (list materials needed)
B. Steps of the experiment (Minimum of 10 steps)
C. Risk and Safety: Identify any potential risks and safety precautions needed.

IV. Results

- A. Measurements: How did you measure the dependent variable? What tools did you use? What units did you use? How did you collect the data?
B. Data Analysis: Describe the procedure you used to analyze your data/results. Present graphs, charts, excel spreadsheets, mathematical calculations, photography (limit of 5), video, etc.

V. Discussion

State any changes and/or challenges confronted in the process of investigation.

VI. Conclusion (10 additional points that will count for Quarter 2)

- A. State whether the experimental results, through data analysis, supports or not the Hypothesis
B. Future Directions: State any future revisions or recommendations for continuation of the experiment or investigation. What should be done or how should it be tested?

VII. 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

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

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ABSTRACT:

Abstracts are limited to a maximum 250 words and must fit within the predefined area. Please be sure to consult the information from your affiliate fair for the proper formatting of the header information as fairs differ in what is required (or not allowed).

The abstract **should include the following:**

- a) purpose of the experiment*
- b) procedure*
- c) data*
- d) conclusions*

It may also include any possible research applications. Only minimal reference to previous work may be included. An abstract **must not include the following:**

- a) acknowledgments (including naming the research institution and/or mentor with which you were working), or self-promotions and external endorsements*
- b) work or procedures done by the mentor.*

TIPS ON WRITING A PROJECT ABSTRACT

A project abstract is a brief paragraph or two (limited to 250 words or 1,800 characters) highlighting and/or summarizing the major points or most important ideas about your project. An abstract allows judges to quickly determine the nature and scope of a project.

- Emphasize these aspects: purpose (hypothesis), methods (procedures used), data summary or analysis, and conclusions.
- Focus only on the current year's research.
- Omit details and discussions.
- Use the past tense when describing what was done. However, where appropriate use active verbs rather than passive verbs.
- Use short sentences, but vary sentence structure.
- Use complete sentences. Don't abbreviate by omitting articles or other small words in order to save space.
- Avoid jargon and use appropriate scientific language.
- Use concise syntax, correct spelling, grammar, and punctuation.