Your final copy of your data analysis project will be due shortly. In order to make sure that you have met all of the objectives, please use the following rubric as you make your final preparations for submission.

Required Components:

- A short introduction which includes a statement of purpose of the study, a null and a research hypothesis, a short description of how and where the observations were carried out, and two studies that are relevant to your observation
- An analysis of your data using descriptive statistics of both measures of central tendency and variance
- A graphical representation of your data
- A discussion section which discusses the findings as well as how you carried out your research.
- Your raw data chart
- Appropriate citation in the introduction as well as a works cited page.
## Assessment rubric

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<th>STANDARD(S)</th>
<th>LEVEL OF ACHIEVEMENT</th>
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| Define the aim of a study.  
Discuss considerations involved in setting up and carrying out an observation. | 8 marks: There is a clearly stated aim to the study; the procedure is clearly stated and includes a short description of the sample.  
6 marks: The aim of the study is clear, but the procedure is not well explained. Only vague reference to the sample.  
4 marks: Either the purpose or the procedure is not well written, making it difficult to understand the aim or to replicate the study. |
| State a research and null hypothesis of a study                                                  | 5 marks: The null and research hypotheses are clearly stated. Variables are well defined.  
3 marks: The null or research hypothesis is not clearly stated; variables are not well defined.  
1 mark: Either the null or research hypothesis is incorrectly stated.                                                                                                     |
| Summarize research, identifying the aim, procedure, results, and implications of the study.     | 8 marks: The studies are relevant and well summarized, including aim, procedure, results, and implications.  
6 marks: The studies are well described, but the relevance is not really apparent. Implications not addressed.  
4 marks: At least one study is not well described, is irrelevant, or is missing.                                                                            |
| Apply descriptive statistics to analyze data                                                    | 5 marks: Measures of central tendency and variance are correctly applied.  
3 marks: Either the measures of central tendency or variance are incorrectly applied.  
1 mark: Incorrect application of statistical analysis.                                                                                                          |
| **Apply appropriate graphing techniques to represent data** | 5 marks: The graph clearly displays data to reflect the hypothesis. All axes are appropriately labeled.  
3 marks: The graph does not directly represent the hypothesis. Axes should be more carefully labeled.  
1 mark: Incorrect or no labeling of axes. Incorrect representation of the data. |
| **Discuss how researchers analyze data obtained in observational research.** | 8 marks: The findings of the study are evaluated. Limitations of the study are noted, the results are compared to the studies in the introduction.  
6 marks: The findings are evaluated and limitations of the study are noted.  
4 marks: Minimal or incorrect evaluation of the study. |
| **Present data in a way that is accessible to the reader.** | 5 marks: The blog page is attractive and easy to read. The raw data table is in an appendix and is clearly labeled.  
3 marks: The blog page is for the most part easy to read. The raw data table is in an appendix, but is not clearly labeled.  
1 mark: The blog page needed a bit more work. It may appear disorganized or did not follow the assigned format. The data table is missing or misplaced. |
| **Apply appropriate citation of sources.** | 5 marks: Sources are correctly cited and a works cited page is included.  
3 marks: Some errors in citation or in the works cited page.  
1 mark: Citation is poorly done or absent. OR Works cited page is missing. |