

Science Fair Research Paper-Fall 2016
Recommended Rubric and Guidelines (100 Total Point)

Introduction and Hypothesis (5 points)

One paragraph description of what you will be studying and why you chose it as your project.

State your hypothesis in terms of the question you are hoping to answer. Describe your prediction.

What did you think was going to happen before you did your experiment?

Background Information (20 points)

Describe the science behind your experiment. Summarize the background information you found on the internet or other references. Put all the information in your own words and cite all references at the end of the paper using MLA format. This section should contain at least two double-spaced type-written pages about the results of experiments similar to yours, what is known about the topic you are presenting and your personal opinion or thoughts on previous studies and references. A minimum of 5 references are required.

Methods and Materials (25 points)

List all the supplies and materials you used in your experiment. Give the steps you took to perform the experiment. Identify the independent variable, dependent variable, control group and the things you kept constant. This section should be detailed enough that someone else could perform your experiment using the detail you provide here.

Data Collection (20 points)

Data collected from your experiment should be displayed in a properly labeled **table** AND **graphically** displayed with legends, titles, proper units of measure and variables clearly labeled.

Data Analysis/Conclusion (20 points)

Did you prove your hypothesis? Why or why not?

What conclusions can you make based on your data?

What could you have done differently to improve the outcome of your project?

References/Format (5 points)

Paper typed, double-spaced with no typos, proper MLA format for citing references, well-written.

Poster (15 Points)

Include summaries of Problem/Purpose, Hypothesis, Procedures (Methods/Materials), Data/Graphics, Results, Conclusions, Recommendations and Abstract.