IQ: _____

(IQ= Investigative Question you try to answer with your experiment)

- Remember that this is an outline which means you don't need to write in full sentences. You can use shorthand, abbreviations and bullet points.
- This assignment does NOT count as your lab report. It is here to help you plan for the final submission of your report.

I. Introduction:

a. Hook (*One* or *two* sentences to draw the reader in) :

b. Hypothesis Statement: Should contain – (1) both independent and dependent variables (2) At least 2 statements explaining your hypothesis.

Your hypothesis:

II. Background Research:

a. In bullet points, state 2 significant issues behind your experimental research.

b. Give three specific real life case study to bring out the significance of your experiment. Be sure to use key terms, as well as identify names, time, date and "what happened" if talking about a specific incident.

Case Description #1

Include a diagram here that breaks down the issue for a 2-year-old. Be sure to use labels and captions to explain your point.

Case Description #2

Include a diagram here that breaks down the issue for a 2-year-old. Be sure to use labels and captions to explain your point.

Case Description #3

Include a diagram here that breaks down the issue for a 2-year-old. Be sure to use labels and captions to explain your point.

III. Methods:

Method A (original)

Describe each step of your experimental design. Each step should be 2-3 sentences. If you have done revisions of your experiment, elaborate on a separate sheet of paper.	In 1-2 sentences, explain the reason for this step.

Create a **VISUAL RECIPE** of your experiment that depicts all measurements and crucial steps in detail.

IV. Results

On graph paper, construct 2 graphical representations of your data. Be sure that each graph has:

- A title that includes both the independent and dependent variables
- All labels and units on its axis
- A key if necessary

V. Conclusion

Restate hypothesis and significance:

State whether you prove/disprove your hypothesis

Identify at least 3 evidences from your data that supports your results

Explain three components of your 2nd experiment that enhanced your first experiment.

List and describe two things about your 2nd experiment that you would redesign for an even better results

List two juicy questions for further investigation at this point. With each question, add 1 – 2 sentences that states the reasoning behind your question.

How does your experiment connect to applications in the real world? Brainstorm in detail how scientists, politicians, businesses and other community members might benefit from your experiment. Use at least 2 points with examples each.

VI. Bibliography: list them accordingly in the blank space below. Use the format provided. Remember, you must come up with at least 2 more resources OTHER than the ones that Ms. Chien provided on her website.

Name of website
Name of author who write the article
URL of website
Website's date of publishing / or last time you viewed it.

If you used a book or a journal article in print, go to www.mschien.com to see how to print it.