TITLE

I. Question: What are you trying to find out? (One sentence)
II. Hypothesis:
    A. Background information: (In a flowing paragraph)
    What do you need to know before you begin the lab? Are their certain facts, vocabulary or observations
    that you need to discuss so you can inform the reader of vital information so they understand your lab?
    B. Hypothesis Question: What question are you going to answer? This should be answered by the data
    you will collect (qualitative and quantitative).
    C. Hypothesis Statement--Complete the sentence:
    If we _____ (describe what you are doing), then I predict
    _____(predict an answer to the question you just posed) because
    _____(why do you think it will be this way—based on your background information).

III. Procedure
    A. Materials (in a numbered list)
        1.
        2.
        3. (and so on)
    B. Methods: Your steps must be repeatable (a very specific numbered lit of repeatable steps and safety
    precautions)
        1.
        2.
        3. (and so on)

IV. Observations and Data
    A. Make a Data Table
        1. Title your data table
        2. Label columns and rows if necessary
        3. Use SI Units
        4. Qualitative and Quantitative Data
            a. Make a data table that incorporates both types of data
            b. Make a separate data table for each type of data.
    B. Sketches and Observations
        1. Use sketches when appropriate to describe steps or results of your experiment.
        2. For long term experiments (+1 week), a journal or observation book for qualitative data may be
        required.
    C. Graph
        1. Graph the quantitative data from your data table into a graph.
        2. Title, label X and Y axis (independent and dependent—respectively) and use SI units.
        3. Use a line graph, bar graph or scatter plot graph—all graph should be done on excel or graph
        paper.

V. Analysis and Conclusion (IN A FLOWING PARAGRAPH)
    ★   What did you find out? (support with data tables and graphs)
    ★   What patterns in the data did you see? (what does this mean)
    ★   Was your hypothesis supported or not supported? Why?
    ★   Sources of Error? (What did you do wrong?)
    ★   Limitations (What things went wrong and were out of your control?)
    ★   How could you redesign this lab and make it better?
    ★   How could you extend this lab to learn more?