**AP Biology e-Laboratory Investigation Notebook- Google Doc Style**

**Objective**

The objective of the lab notebook is to organize and keep track of your labs that you do in class and to record your thinking and understanding of these lab investigations. This is the place where you write down your understanding of the experimental design (i.e. your pre-lab flowcharts- PLF’s), the purpose and key background information about the investigation, the procedures that you used, what your observations were (i.e. data and graphics), questions you had, and the conclusions you were able to draw from your investigation, which includes a concise discussion. This reference will be very useful to you when you review all of the labs you did for this class for the AP exam.

**Creating your e-notebook**

Use Google Docs to set up your lab notebook. To begin, set up a table of contents which hyperlinks the headings of your table of contents to each of your lab entries. To do this include the lab title or heading in your table of contents and insert a hyperlink to your created document. Each lab should begin with a new document. Each lab entry should be complete and concise. Keep in mind that I can see on my side the dates and times of edits and the individuals who collaborated on the entry. A Google Doc file has been placed in your AP Biology Google Docs folder titled “AP Biology Laboratory Notebook-”please do not delete this file and use this document to build your table of contents and lab notebook.

**Entry headings**

Each entry must be titled. The heading will indicate the lab that was done, the date and the people who worked on it.

**Writing the Laboratory Investigation Report**

The lab notebook is a great way to keep track of the progress you are making with your lab work. It communicates your understanding of the lab and of scientific inquiry. It should be written so that other people would be able to read your work and be able to recreate it. The whole point of a laboratory notebook is that it should:

* Say exactly what the purpose of the investigation was;
* Say exactly what was done, and when;
* Enable someone else to do be able to replicate and verify your findings;
* Communicate your understanding of the investigation to your teacher.

Click on the following link and read the article titled *Scientific Writing.* This reading will provide you with guidelines to help you write your lab investigation report. This should be a review from iiSII.

<http://mshsapbiology.weebly.com/writing-a-scientific-paper-guidelines-and-rubric.html>

**e-Lab Report elements to consider:**

* You can take a photo of your PLF, create or use the following template for the pre-lab section.
* Add visuals!!
  + For your “Materials and Methods” section you might want to include a photo to help you explain and describe your design setup. Sometimes a picture is worth a thousand words.
  + For tables and graphs- you can take a photo of a hand drawn graph or insert a graph that you did through Google Spreadsheets, Excel or other similar programs.

**Rubric used to evaluate your lab investigation report.**

***AP Biology Investigative Labs: In Inquiry-Based Approach***

Analysis and guiding questions for each investigation.

Finally, include the section elements that you need to address. These will be posted for you in red on the class Weebly site for each investigation. Be sure to answer these lab investigation elements completely, in your own words and as your own original work