Lab Notebook Format

I. PRE-LAB

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| LAB QUESTION *What testable question are you trying to answer in the investigation?*  |
| INDEPENDENT VARIABLE*What are you changing in each trial?* | DEPENDENT VARIABLE*What is being measured?* |
| HYPOTHESIS *Format: IF (IV: this is changed), THEN (DV: this result will change in this way), BECAUSE (of this reason)* |
| EXPERIMENTAL DESIGN *Diagram and describe (annotate) each group in the experiment* |
| CONSTANTS *Factors held the same in all trials**Evident in your design diagrams*  | CONTROL(s) *Lacks any change to the IV**Trial for comparison to the experimental group/s* |

II. DATA

* Draft your tables/graphs on the whiteboard or in pencil before committing to your notebook
* Include examples of calculations

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| **IV**What you modify in the lab design | **DV**What you measure as your data | **RESULTS**Differences,Averages… |
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* Columns/rows/axes titled with variable and *unit “The effect of..”*
* Choose graph type based on data type: “*The relationship between..”*

*Discreet Comparison: columns, bars*

 *Continuous Change: point, line, histogram*

* Use color, patterns, labeled lines when needed

III. ANALYSIS – 2 paragraphs

**Claim & Evidence**

* Make factual claims from the patterns evident in the data, stating the relationship between the variables.
* Cite specific data as evidence to support your claim.
* Does the data support the hypothesis?

## **Commentary**

## Use reasoning to make inferential claims from the results, including in particular the underlying cause of the effect.

* Make links to unit concepts/vocabulary. How does the lab demonstrate them?

## Discuss any errors resulting from lab design, or any human error that went uncorrected.

## Are your results conclusive? Base this claim on the number of trials, class results, effect of errors, etc.