***2018 Chemistry R/H Lab Write up Guide***.

**(Always typed!)**

Cover Page (must be on separate single page)

* TOP LEFT CORNER PUT:
  + Title (Q1L2 Density of solids and liquids)
  + Your Name
  + Partner name(s)
  + Lab period
  + Date completed
  + Cut and paste picture this is socially acceptable and **relevant** to the lab.

Purpose:

Usually one to three sentences that begins with “To investigate…” or “To explore…” or “To familiarize…”

Background:

Provide historical and general information and applications of the concepts/principles being explored in the lab.

Materials List:

* Lab equipment used
* Chemicals used by IUPAC name and formula

Procedure:

Step-by-step describe what you will do and how you will do it.

Describes, in detail, the steps by which an experimenter must take in order to accomplish the stated purpose.

The procedure should be so specific and clearly stated that a *stranger* could easily repeat the experiment.

Data:

This section needs only labeled tables, charts or graphs with proper headings, proper units, significant figures etc…

Results**:**

A narrative of the data section that describes what is in your data section.

Do not tell me what it means or proves etc…

For example:

”Data table one shows the emitted color for each a metal ion”

“Shows the calculated change in energy associated with the wavelength emitted per metal ion station”

Post lab questions:

Do not copy the questions.

Number the answers in proper order.

Make sure you show all work for calculations

Discussion:

Talk about the results – correlation, explanation and application.

You must use your actual data to support what you are saying.

Example: For a lab on density you might tell me how the density stays the same despite the increases in mass and volume on your data table.

Example: if we were doing a flame test lab (excited vs. ground states) you might tell me what the ΔE means.

Essentially you are proving to me you know what we did, why we did it and how it might relate to the world

Conclusion:

Please don’t tell me you had fun or the lab was “good”!

Tell me about some things that you learned and did that caused you to think critically or improved your understanding of chemistry and the concepts explored in the lab.  Always include some reasonable speculation on sources of error.

**2018 Lab Rubric**

Cover 🡺 Neat, Proper info top left stapled 0 0.5 1

Background 0 1 2

Purpose 0 0.5 1

Materials & Procedure 0 1 2

Data 0 1 2

Results 0 1 2

Q & A 0 1 2

Discussion & Conclusion 0 1.5 3

TOTAL POINTS     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_       DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Redo Lab Rubric (only for Quarter 1)**

Cover 🡺Neat, Proper info top left stapled 0 0.5 1

Background 0 1 2

Purpose 0 0.5 1

Materials & Procedure 0 1 2

Data 0 1 2

Results 0 1 2

Q & A 0 1 2

Discussion & Conclusion 0 1.5 3

Redo TOTAL POINTS     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_      DUE DATE \_\_\_\_\_\_\_\_\_\_\_\_\_