Lab #: Lab Title

by

Principal Investigator:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Data Analyst:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Researcher:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lab Report Template

 Introduction- by PI

The purpose of this lab is to explore the idea of …. To explore this concept, our group performed a series of experiments to measure …. By the end of the lab, our experimental techniques allowed us to measure … as $X=\overbar{X}\pm δX$.

Procedure- by Researcher

In order to achieve our desired result, our group directly measured the following quantities …. We used the equation,

$$Equation Placeholder (1)$$

to compute our desired value. And we used the equation,

$$Uncertainty Equation Placeholder (2)$$

To compute the uncertainty that arises through the use of equation (1).

Data –by DA

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| --- |
| Placeholder for Sample Data Table |
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Conclusion- by PI

Based on the graph(s) above, we can see that “Method 1” resulted in $X\_{1}=\overbar{X\_{1}}+δX\_{1}$ and
“Method 2” resulted in $X\_{2}=\overbar{X\_{2}}+δX\_{2}$. Based on the overlap between these two measured values we can confidently report Method 1 and Method 2 are equivalent and that $X=\overbar{X}+δX.$ (OR Based on the lack of overlap between these two measured values we can confidently report Method 1 and Method 2 are different because…)