Organized Lab Notes Rubric

Comments

Part 2: Method

* Goal explained and justified, includes prediction, ***referencing Part 1 as appropriate***
* Choice of equipment and measuring devices is clear and justified
* Choice of statistical and analysis tools is clear and justified
* Choice of which variables to vary, measure, hold constant, and range of variable(s) explored is clear and reasonable
* Overall clarity of method

Part 2: Data

* Data is presented in appropriate tables and/or graphs with units, labels, and titles
* Collected data is of sufficient quality and is in accordance with proposed method
* Uncertainty is evaluated/estimated appropriately
* Uncertainty is sufficiently minimized, through the number of trials or choice of instrument, as needed
* Analysis performed correctly and in accordance with method, sample calculations included as appropriate

Part 2: Conclusion

* Summarize analysis and draw appropriate conclusion
* Cite quantitative results in support of conclusions
* Properly qualify results in terms of uncertainties or the limits of the experiment
* ***At least one*** new actionable possibility for a next iteration of the experiment is proposed and motivated
* Summarize assessment of the model, compare with prediction ***and Part 1***, answer other questions posed in the lab manual

Part 1: Method

* Goal explained and justified, includes prediction
* Choice of equipment and measuring devices is clear and justified
* Choice of statistical and analysis tools is clear and justified
* Choice of which variables to vary, measure, hold constant, and range of variable(s) explored is clear and reasonable
* Overall clarity of method

Part 1: Data

* Data is presented in appropriate tables and/or graphs with units, labels, and titles
* Collected data is of sufficient quality and is in accordance with proposed method
* Uncertainty is evaluated/estimated appropriately
* Uncertainty is sufficiently minimized, through the number of trials or choice of instrument, as needed
* Analysis performed correctly and in accordance with method, sample calculations included as appropriate

Part 1: Conclusion

* Summarize analysis and draw appropriate conclusion
* Cite quantitative results in support of conclusions
* Properly qualify results in terms of uncertainties or the limits of the experiment
* Multiple actionable possibilities for a next iteration of the experiment are proposed and motivated
* Summarize assessment of the model, compare with prediction, answer other questions posed in the lab manual











