

Honors Physics: 1D Kinematics Challenge Lab Lab Report Requirements

Abstract:

- Explain the purpose of the lab in 1 -2 sentences. What was done and how?

Theory/Introduction:

- What is kinematics? How does this term relate to what was done?
- Explain new variables used (displacement, velocity, acceleration, etc....)
- What was the goal of the lab?

Procedure:

- What equipment was used? Consider both testing methods.
- What was done during the 'by hand' portion?
- What was done during the technology portion?
- Include formulas used along the way.
*No mention of results yet

Data: (This portion may be hand-written)

- Present your data in some easy-to-read form – charts, tables, etc...
- Show one sample calculation done during the calculation portion of the lab.
- Include any sketches or graphical data that was taken.

Error Analysis:

- What are some things that could have gone wrong or led to inaccurate results?
- What are things that could be done to reduce or avoid these errors if the experiment were to be repeated?

Analysis:

- What trends were found or things observed in your calculated data?
- What trends were found or things observed in your graphical data?

Conclusion:

- So constant acceleration or not constant acceleration?
- What extensions would you recommend if this lab were to be taken a step farther?

Works Cited:

- Included a works cited page along with in-text citations if any outside sources were used.