

Lab - Constant Position, Velocity, and Acceleration

What does it mean when we say constant position? Constant velocity? Constant acceleration?

In today's "exercise" we will try to experience each.

Safety:

Warm up. Watch your footing. Don't over do it in the name of science

Procedure

[5] Constant Position. Record position and time every 5 seconds while standing on the 10 yard line. Record your observations.

[10] Constant Velocity. Starting from rest, record position and time every 5 yards for 25 yards while walking at a constant velocity of 5 yards/ 10 seconds. Work in pairs. Each partner must attempt this. Record your observations.

[10] Constant Acceleration. Starting from rest, record position and time every 5 yards for 25 yards while walking at a constant acceleration of 0.5 yards/sec^2 .

Do this as a team. 1 walker, timers at the 5, 15, and 25 yard markers

Record your observations.

Name	Date	Mods
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Physics – Song

[60] Report - Constant Position, Velocity, and Acceleration

[1] Write a neat, legible report on a separate piece of paper

[1] Give your report an appropriate title

[1] Restate the research questions

[27] Procedure and observations:

Include this sheet, your partners names, and your original observations

[20] Results

[10] Make a table of position and time for the three experiments

[10] Make a graph of the three experiments with time on the x-axis.

[10] Conclusion

Using full sentences, answer the research questions. What was your experience during each experiment? Was it easy? Difficult?