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Class: PHYS 2211L - G02

Lab: 7 "Momentum"

Grade: _____

1) Objective: To create separate graphs showing the correlation between velocity, momentum, and thrown blocks

2) Theory: Using formulas learned in lecture, students should be able to use given information and complete the problems.

3) Procedure:

- Using formulas listed below, find velocity and momentum after several blocks are thrown. Use the simulation provided to confirm numbers found by student.

4) Data: Formulas used in this lab

- $P = m * v$
- $V_{\text{sled}} = (V_{\text{block}} / M_{\text{sled+blocks}}) + V_{\text{previous}}$

5) Calculations: (attached in Excel columns)

6) Results: (see attached pdf pictures)

7) Comments: JPEG files show the numbers found before running simulation. Files also show the formula used to determine most numbers found. 22 separate calculations were not performed.