

Worksheet 7: Newton's 2nd Law, Part I

Name: _____

Due April 2, 2026

Partner: _____

Pencil only: use of Pen is forbidden.

As usual, turn your Excel document into the Google folder, including one properly formatted plot of m_2 vs a .

For this first week, use Trendline/Linest to force the intercept to be zero.

Use proper formatting (like worksheet #0!) for EVERY NUMBER on this worksheet.

Next week, we'll do the same experiment, starting over with new numbers and new analysis for everything.

Quantity	Result
L_{cart} (cm)	\pm
D [photogates] (cm)	\pm
m_{total} (g)	\pm
m_{clip} (g)	\pm
<i>intercept</i> (g)	0 ± 0
<i>slope</i> ($\text{g} \cdot \text{s}^2/\text{cm}$)	\pm
μ_k	0 ± 0
g_{calc} (cm/s^2)	\pm