

Note: 1 inch margins all around
Font = 12 - use a simple, easy to read font

Your Full Name Student #
Section #

Due Date of Lab
First Name, Last Initial of Lab Partners

(3 spaces)

Motion of a
Car Moving Down An Incline

(2 spaces)

Introduction:

(1 space)

In this lab we used a vibrating timer to gather displacement versus time data for a 550-gram lab cart moving down a ramp at 30-degrees. A graph of displacement versus time was plotted. A velocity versus time plot was also plotted. The slope of this plot was used to determine the motion of the cart. (Paragraph indented once)

(2 spaces)

Objective: To collect and analyze motion data from a lab cart rolling down an incline at an angle of 30 degrees. (2nd line lines up with 1st)

(2 spaces)

Materials: Vibrating timer, 6 paper ribbons, 30-degree incline, Small Lab cart, 4 small pieces of masking tape

(2 spaces)

Procedure:

(1 space)

1. Set the incline to 30 degrees
2. Taped the ribbon to the middle of the cart with masking tape
3. Threaded the other end of the ribbon through the timer
4. Released the cart at the top of incline and turned on the timer
5. Stopped the timer
6. Repeated steps 1 - 5 to produce 3 more trials

(Paragraph indented once)

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Data
(1 space)

**Note: You should use your data not the example data listed below*

Displacement (cm)	Time (tocks)	Velocity (cm/tock)	Time (tocks)
0	0	0	0
.40	1	.40	1
.80	2	.40	2
1.20	3	.80	3
1.95	4	.75	4
2.80	5	1.30	5
4.20	6	2.60	6
8.00	7	3.90	7
12.60	8	5.10	8
27.20	9	7.10	9
34.40	10	8.20	10

***** Tock = 2/56 sec**

NOTE: Use your word processor's Tables feature to make your data table

Sample Calculation

Put your sample calculations from your loose leaf here.