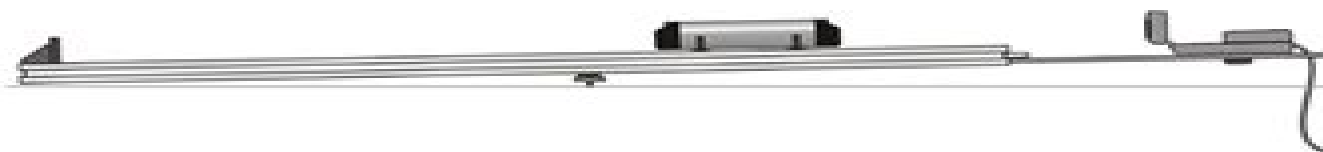


Cart on a Ramp

INTRODUCTION

This experiment uses a ramp and a low-friction cart. If you give the cart a gentle push up the ramp, the cart will roll upward, slow and stop, and then roll back down, speeding up. A graph of its velocity vs. time would show these changes. Is there a mathematical pattern to the changes in velocity? What is the accompanying pattern to the position vs. time graph? What would the acceleration vs. time graph look like? Is the acceleration constant?

In this experiment, you will use a Motion Detector to collect position, velocity, and acceleration data for a cart rolling up and down a ramp. Analysis of the graphs of this motion will answer these questions.



OBJECTIVES

- Collect position, velocity, and acceleration data as a cart rolls up and down a ramp.
- Analyze the position vs. time, velocity vs. time, and acceleration vs. time graphs.
- Determine the best fit equations for the position vs. time and velocity vs. time graphs.
- Determine the mean acceleration from the acceleration vs. time graph.

MATERIALS

computer
Vernier computer interface
Logger Pro

Vernier Motion Detector
Vernier Dynamics System

PRELIMINARY QUESTIONS

1. Consider the changes in motion a cart will undergo as it rolls up and down a ramp. Make a sketch of your prediction for the position vs. time graph. Describe in words what this graph means.
2. Make a sketch of your prediction for the velocity vs. time graph. Describe in words what this graph means.
3. Make a sketch of your prediction for the acceleration vs. time graph. Describe in words what this graph means.

PART I

1. Connect the Vernier Motion Detector to the DIG/SONIC 1 channel of the



The Ramp Lab Answers

Annelies Wilder-Smith



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