Name			
_			

Date	Per.
Date	r C1.

Lab 4A: Speed

Key Question:

Can you predict the speed of the car as it moves down the track?

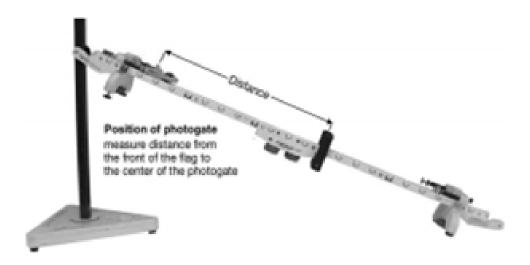
Background:

<u>Distance:</u> the difference in length between the starting point (origin) and the endpoint

<u>Time Interval:</u> a definite length of time marked between two instants (such as start and stop time)

Formula for Speed: s = d/t

Drawing:



Section 2: Making a Hypothesis

(If, then, because)

a)

Section 3: Setting up the experiment

Our Lab group's ramp is attached on hole # _____

Section 4: Setting up the experiment

a)

b)

c)

Section 5: Doing The Experiment

Table I: Position, time, and speed data

	Time through photogate A (s)	Distance traveled by the car (cm)	Speed of the car (cm/s)				
		1.00					
		1.00					
		1.00					
		1.00					
		1.00					
_		1.00					

Section 6: Analyzing The Data

a)

b) On Your Graph

c)

d)

e)

Table 2: Predicted Speed Data

Selected Position (cm)	Predicted speed at selected position (cm/s)	Actual speed at selected position (cm/s)	Percent correct of prediction

Section 8: Calculating Percent Error

- a)
- b)
- c)
- d)