

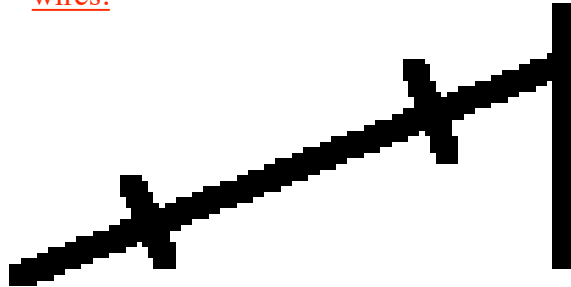
Science Notebook Layout **DON'T COPY UNDERLINED TEXT**

Mrs. Aguirre's Webpage: <http://www.quia.com/profiles/caguirre>

USING PHOTOGATES TO TIME CARS 9/17/12

Top half of page: Draw/color a labeled picture of how to set it up.

- Label: ramp, car, photogate A,B, draw red and blue wires.



Answer in a paragraph- bottom half of page.

How should the photogates be set up for timing cars:

1. Should the timer be on stopwatch or interval?
2. Should light A, B or both be on?
3. Which photogate should be nearest to the top of the ramp, A or B?

Describe what happens to the timer when a car rolls

- down ramp THROUGH 1st PHOTOGATE (PG),
- between the 2 PG's and
- THROUGH THE 2nd PG.

14

Using Timers 9/14/12

INVESTIGATION 1B MEASURING TIME AND DISTANCE (pg 3-5)

1. How fast can you start and stop the timer? _____
2. Reaction Time: Don't forget to include units!

Trial	Stopwatch Reading	Secret Number	Reaction Time
1			
2			
3			
4			

3. a. _____ b. _____ c. _____ order: _____

4. a. How do you start the clock?
- b. How do you stop the clock.
- c. What interval has been measured?

Define Interval:



- d. Does the timer add or reset? How can you prove it?
- e. What is your group's fastest time? Describe your method.

5. Using the timer with 2 photogates

A light	B light	How do you start the clock?	How do you stop the clock?	What time interval does the clock measure?
On	Off			
Off	On			
On	On			
Off	Off			



6. One sentence answer:

6. Does the timer reset or keep adding?
Give evidence to support your claim

15