



Physics

LAB #3: SPEEDING CARS

Name: _____

Date: _____

Speeding Cars

Lab #3

Purpose: To see if cars passing in front of our school are following the speed limits.

Method: Your mission, should you choose to accept it, is to figure out a way to determine the speed of cars using only a tape measure and a stopwatch. What information is required to determine the speed? Can we get this information using the sidewalk, a tape measure, and a stopwatch? How?

Show all work, including the distance and time data.

Part A – Going the Distance:

Measure between two landmark points in front of the school and record the distance.

Distance = _____

Part B – Timing is Everything:

Time a number of cars (may be determined by traffic) and record the time it takes to travel between the landmarks. Record your data below.

Car Number	Time	Car Number	Time
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

The Final Report: Calculate the speed of the cars in both meters per second and miles per hour. Report each speed in a table.