Lab 2-1: **Constant Speed**

Purpose: 1. To define the phrase *constant speed*.
2. To accurately measure the speed of a toy car and then make predictions

Materials: 1 car 1 stopwatch 1 meter stick tape

Procedure:

1. However you like, determine the speed of your car. Keep in mind that how well you determine this number will affect your grade. We strongly suggest you do multiple trials and average results. Record your data and show your calculations in the space provided below.
2. When you have calculated the speed of your car, see your teacher. At the front of the room are two tape marks on the floor a set distance apart - ask your teacher for this distance. Then calculate the time it will take your car to travel that distance. Show your work in the space provided below.
3. When you have calculated the time to travel the given distance, see your teacher for the final test and hand in your lab sheet (just one per group - make sure all names are on it.) When told to, place your car at the start line (wheels on the line) and your teacher will then time how long it takes your car to travel the set distance. Your grade is based on how close your calculated time comes to the actual time.

Part 1: Determine the speed of your car.
Data:

The speed of our car is _____ m/s.

Part 2: Determine the time to travel the distance given.
Calculations:

Distance To Travel: _____ m

Our calculated time is _____ s.

The actual time is _____ s.