



Name (s) _____

Period _____

Describing the Motion of a Car

Materials:

- Toy Car
- Stopwatch
- Meterstick

Procedure:

- 1) Select a line or place a pencil on the floor to mark your starting point.
- 2) At the starting line, give your toy car a gentle push forward. At the same time, start your stopwatch.
- 3) Stop timing when the car comes to a complete stop. Mark the spot at the front of the car with another pencil. Record the time for the entire trip.
- 4) Using a meterstick, measure the distance to the nearest tenth of a centimeter and convert it to meters.

Data and Observations:

Toy Car Trip
Trip time
Distance in cm
Distance in m

Analysis:

- 1) Calculate the speed (show work and label).

- 2) What was the car's velocity?

- 3) How would the speed differ if you repeated your experiment in exactly the same way but the car traveled in the opposite direction?

- 4) How would the velocity differ if you repeated your experiment in exactly the same way but the car traveled in the opposite direction?