

Lab: The Tumble Buggy

Absent A

Absent B

Absent C

Absent D

Absent E

This is me! Period

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This is me!

PURPOSE

To determine the formula for speed and to plot a graph that represents the motion of an object.

MATERIALS

- stopwatch (or the stopwatch function on your cellphone)
- meterstick
- long piece of paper (This is for Part B only! Do not use this for Part A!)
- two small pieces of painters tape to hold the paper down (Part B only!)



DISCUSSION

Sometimes the relationship between two quantities is easy to see and sometimes the relationship is harder to see. A graph of the two quantities often reveals the nature of the relationship. In this experiment you will do a simple speed calculation and then plot a graph that represents the motion of this object.

PROCEDURE

Part A - Finding the speed of the car

1. Using only a meterstick and a stopwatch (you will not be using the long piece of paper and tape for this part), devise a method to calculate the speed of your car. Explain your method using complete sentences. It should be detailed enough so that another student can follow your words and repeat the task exactly. *Note:* Descriptions such as "measure and then calculate" will not suffice and will yield zero credit. A diagram may be drawn to support your procedures. Indicate the speed of the Tumble Buggy at the bottom of the page.

Speed of Tumble Buggy: _____

SHARING IS CARING

Go to the class website www.jfkphysics.com > Physics Agenda and Files > Click on today's date > more details > click on the link.

Share your result with the rest of the class.

