Name: Period:

Uniform Motion Lab

Regents Physics

Partners:

Equation (s):

Materials:

Data and Calculations: Be sure to show the correct units!

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| --- | --- | --- |
| Time (s) | Distance from start (m) | Average Speed (m/s) |
| 0.0s | 0.00m | 0.00m/s |
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1. Make a graph of total displacement versus time.

2. Make a graph of average speed versus time.

3. Show the calculation of the average speed of the last data point.

4. What is the relationship between the two graphs?

5. How would the displacement versus time graph change if the cart accelerated?

6. How would the speed versus time graph change if the cart accelerated?