RUBBER BAND MOBILE

Introduction
An object is moving if it changes position. We live in an environment where things around us are constantly in motion, whether it’s a car, animal or even us. Speed describes how fast these objects move. We can use the distance that an object travels and the amount of time it took to travel that distance in order to calculate the speed. Recall what you have just learned in class about calculating speed. In this lab you will construct a car out of the materials listed below and calculate the speed at which the car moves over a distance.

Purpose
- To utilize a rubber band mobile to measure distance and time traveled
- To calculate the speed of a rubber band mobile

Materials
- 3 plastic drinking straws
- 4 popsicle sticks
- 2 skewers
- 4 Lifesavers
- Rubber Bands
- 2 paper clips
- Tape
- Stopwatch
- Meter stick
- Scissors

Procedure
1. Discuss with your classmates how you will construct your Rubber Band Mobile.
2. Make a rubber band mobile using the materials listed.
3. Test the car by using the rubber band to produce motion.
4. Make sure your car moves a considerable distance using the rubber bands. This will determine which group will win the race at the end of class. Record the data in the data table.
5. Calculate the average distance traveled.
6. Calculate the average time it took to travel the distance.
7. Calculate the speed of your rubber band mobile.
8. Calculate the average speed of your rubber band mobile.
9. Graph your data.

DATA TABLE

<table>
<thead>
<tr>
<th>Trial</th>
<th>Distance Traveled</th>
<th>Time</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>2</td>
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<td>3</td>
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<tr>
<td>4</td>
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<tr>
<td>Average</td>
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