Wind-up Toy Lab

I. Purpose/Hypothesis: Which wind-up toy will reach the highest speed?

Velocity = Distance/Time

Hypothesis:

II. Materials:

- 3 Windup Toys
- 2 Meter Sticks
- Stop Watch
- Masking Tape “Starting Line”

III. Procedure:

1. Setup your “Track” on your desk
2. Run 3 Trials for all three Windup Toys and time them for 30 seconds and measure the distance.
3. Use Velocity = Distance/Time for each trial (units = m/s).

IV. Data

A. Diagram
B. Observations - n/a
C. Data Table

<table>
<thead>
<tr>
<th>Toy 1-</th>
<th>Toy 2-</th>
<th>Toy 3-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trial 1</td>
<td>D=</td>
<td>T=</td>
</tr>
<tr>
<td>Trial 2</td>
<td>D=</td>
<td>T=</td>
</tr>
<tr>
<td>Trial 3</td>
<td>D=</td>
<td>T=</td>
</tr>
<tr>
<td>Totals</td>
<td>D=</td>
<td>T=</td>
</tr>
</tbody>
</table>

D. Graph (build this on Google Docs)
E. Analysis Questions

1. Which Toy had the fastest Average Speed? ____________________________
2. Describe in words how the toy moved

Toy 1 -
_____________________________________________________________________________________
_____________________________________________________________________________________

Toy 2 -
_____________________________________________________________________________________
_____________________________________________________________________________________

Toy 3 -
_____________________________________________________________________________________
_____________________________________________________________________________________