Wind-up Toy Physics

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Follow your teacher’s directions to complete this lab activity.

Be sure to record your lab results in the charts!

|  |  |  |
| --- | --- | --- |
| Trial | Distance Traveled | Time |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

**Materials and Equipment:**

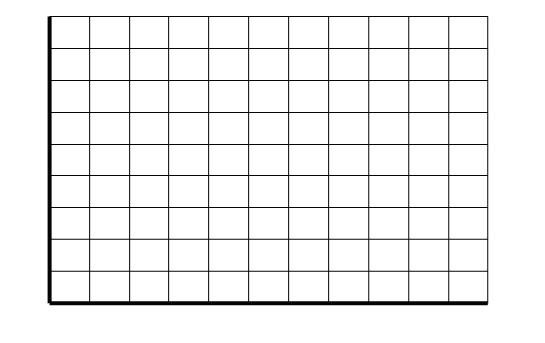
* One Wind-up Toy
* One stopwatch per team
* One meter stick per team
* String
* Expo marker

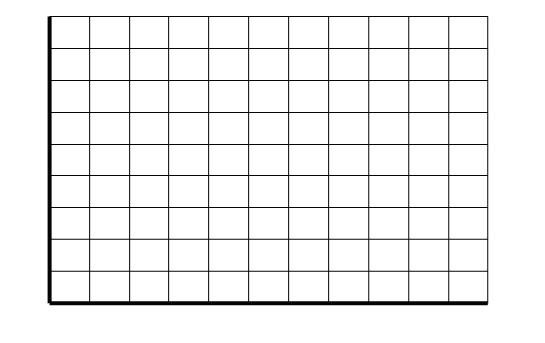
Speed = Distance / Time

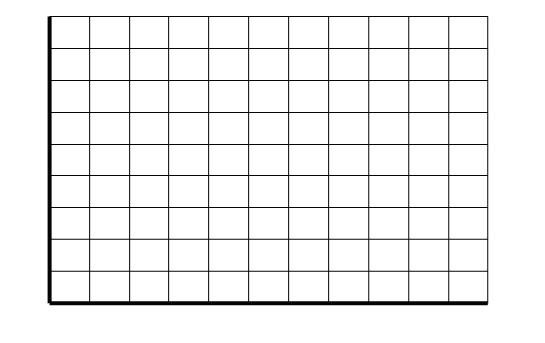
1. Calculate the speed for each trial using the total time and total distance. Show your work!

Trial 1:\_\_\_\_\_\_\_ Trial 2:\_\_\_\_\_\_\_ Trial 3:\_\_\_\_\_\_\_

1. Construct a graph to show your results. (Distance vs. Time)







Trial 3

Trial 2

Trial 1

1. Do your graphs represent a constant speed or an average speed?
2. Are your results reliable? Explain
3. What would you change about the lab?