Match that Graph!

In today’s activity, you will be matching and creating position vs. time and velocity vs. time graphs for several different scenarios.

*If you are given a graph…*

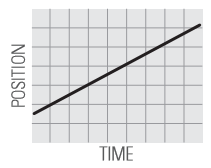
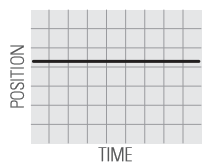
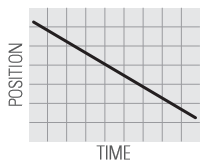
* You must describe the motion that was made to match it using the motion sensor
* You must create the corresponding velocity vs. time graph

*If you are given a description…*

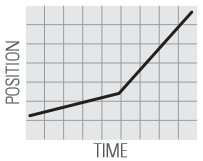
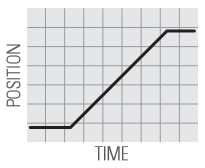
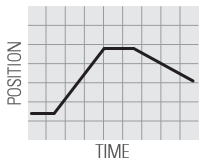
* You must predict the position vs. time and velocity vs. time graphs that the motion will create
* You must write down how the actual graphs look

*Scenarios:*

**A B C**

**D E F**

**G**- walk slowly toward the sensor, then faster away from the sensor

**H**- begin at rest for 2 seconds, walk fast toward the sensor, stop for 2 seconds, walk away from the sensor at the same speed

**I**- walk fast away from the sensor, then slower away from the sensor

**J**- walk toward the sensor, stop for 2 seconds, walk away from the sensor slower, walk toward the sensor faster than before