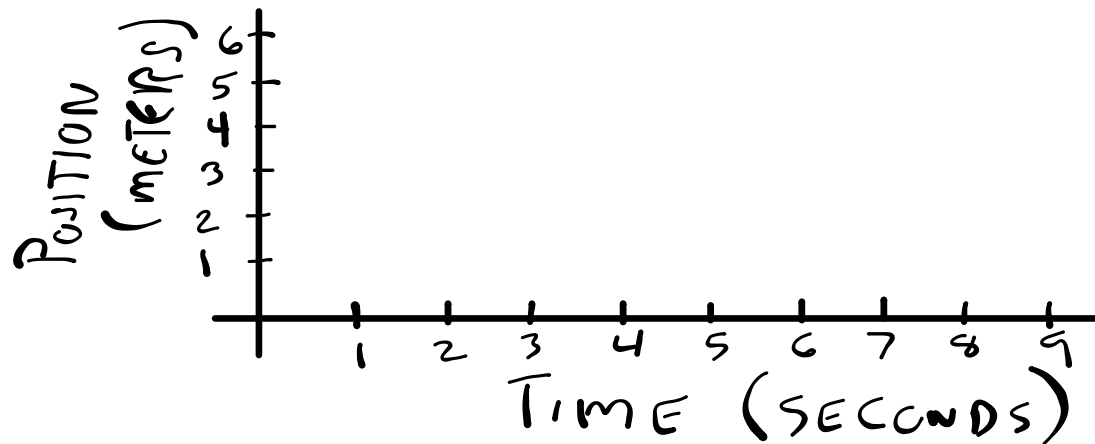


12/10/12 COMMUNICATING MOTION

- TO DESCRIBE MOTION W/O WORDS, WE USE GRAPHS.

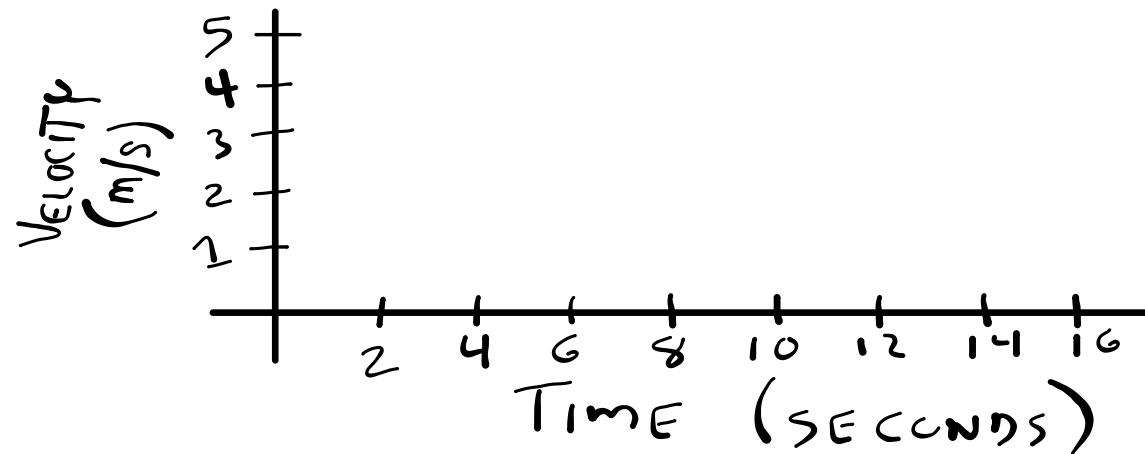
- POSITION VS. TIME GRAPH

- DISPLAYS / PLOTS THE POSITION OF AN OBJECT AT EVERY POINT IN TIME.



- VELOCITY VS. TIME GRAPH

- DISPLAYS / PLOTS AN OBJECT'S VELOCITY AT ALL POINTS IN TIME.



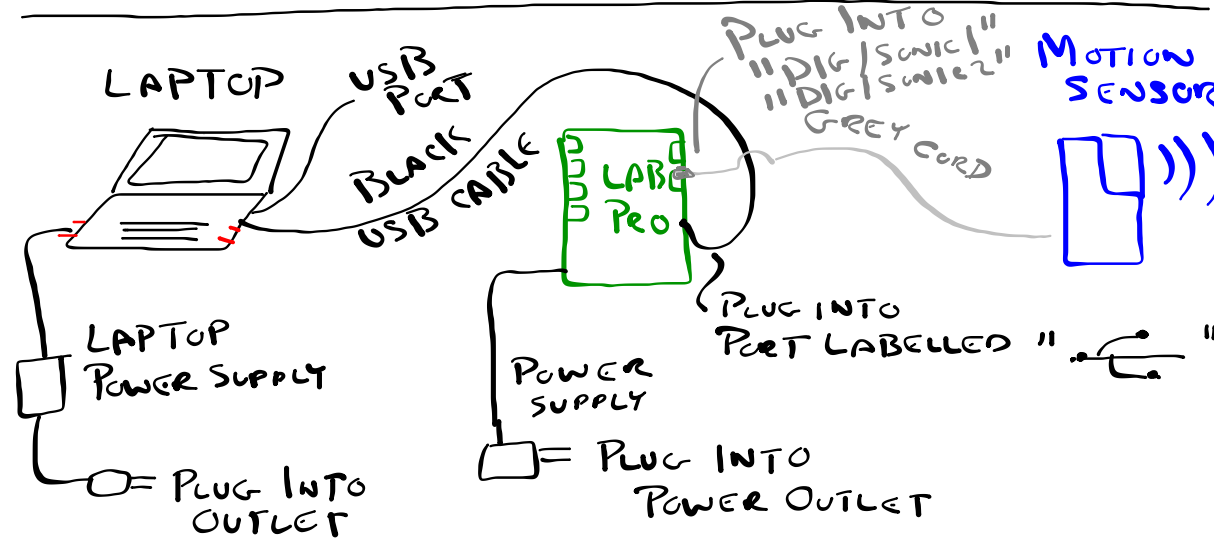
FOR POSITION VS TIME GRAPHS:

- THE STEEPER THE GRAPH, THE FASTER THE OBJECT IS MOVING.
- A FLAT GRAPH = NO MOTION, AN OBJECT STAYS PUT.
- WHEN THE SLOPE IS +, THE OBJECT GETS FURTHER AWAY;
- WHEN THE SLOPE IS - , THE OBJECT GETS CLOSER

For A VELOCITY vs. Time GRAPH:

- A FLAT LINE = CONSTANT VELOCITY
- A POSITIVE RATE = MOVING AWAY
- A NEGATIVE RATE = MOVING TOWARD
- A SLOPE = A CHANGING VELOCITY
= ACCELERATION

How To Hook Up The Motion Sensor



- LABPRO SHOULD BEEP WHEN IT IS PLUGGED INTO POWER.
- OPEN "LOGGER PRO" ON THE COMPUTER WHEN EVERYTHING IS PLUGGED IN
- TO RECORD MOTION, HIT THE GREEN "COLLECT" BUTTON.