

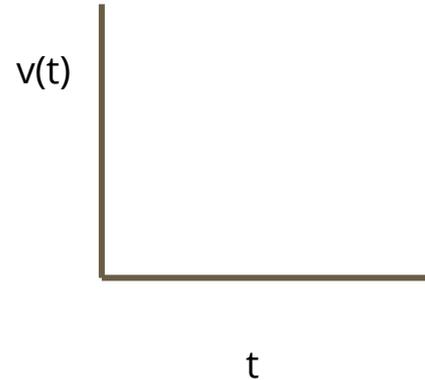
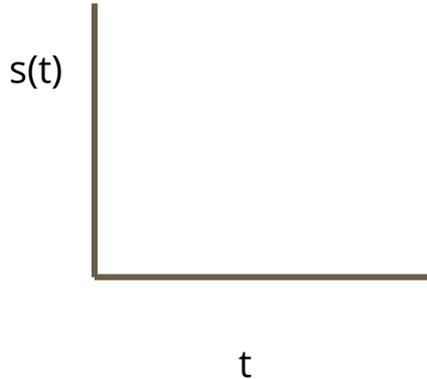
September 25, 2019

Open Seating, Sit anywhere at a table

Entry: Answer the following in your notebook

What is the slope of displacement graph? (Please write an equation for the slope)

What is the slope of velocity graph? (Please write an equation for the slope)



Housekeeping

- Problem Set #4 due Thursday for A/B Friday for C/D
- No Homework Quiz this week, developing a plan for future assessments
- Corrections for weeks 1-5 due Oct. 11
- SLC Sign ups
- Office Hours at lunch (any day) this week or before school (9:00-9:30) (any day except today). No after school hours this week (sorry!)

Today

Kinematic Displacement Graph and Equation Activity

Velocity and Acceleration Graphs

Match that motion video Activity

All the different types of motion

Please bring the following with you as we head out to create motion graphs:

1. Notebook
2. Pencil or Pen
3. Ruler or Straight edge (you might have to share)

I also need about 10 volunteers to time (these volunteers need phones as well) and a few volunteers to be my runners/walkers

For Each Motion in your Notebook

Draw the following:

1. $s(t)$ vs. t (Position vs time)
2. $v(t)$ vs. t (Velocity vs time)
3. $a(t)$ vs. t (acceleration vs time)

Write equations for the following:

4. $s(t)$ vs. t (Position vs time)
5. $v(t)$ vs. t (Velocity vs time)
6. $a(t)$ vs. t (acceleration vs time)

Match that motion

Please get a computer with your shoulder partner (1 per team) and go to my DP mscarolinesdp.weebly.com, go to experiences and experiments, and go to the videos linked under “Match that Motion Lab Videos”

See board for your video assignments

Match that Motion

1. View the each or your assigned videos with your shoulder partner
2. With your shoulder partner use the example graphs we just created to help you determine what the position vs. time, the velocity vs. time, and the acceleration vs. time graph should be for each video.
3. In your notebook draw these 3 graphs, write a description of the object's motion for each video, and write equations describing the position vs time, velocity vs time, and acceleration vs. time relationships.
4. Pick one of your video analyses to share with the class. Your and your partner will present your analysis and graphs to the class.