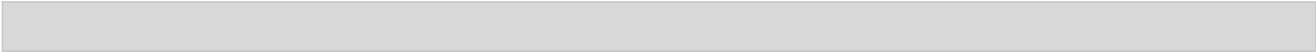



# PS Comp 3 Mass-spring system

For this assignment you will use the knowledge that you gained in class about the equations for the motion of an oscillator along with the mass and spring constant from AC 1 Swings and Springs to model the motion of an ideal spring oscillating horizontally. You will use YOUR SPRING CONSTANT found in class on Monday for  $k$  and you can choose a reasonable amplitude.

In the code I provided you in PS Comp 2 you used equations of kinematics as the model for the motion. For this problem set you will need to [use the equations we discussed in class.](#)

Your submitted product should include

1. A copy/paste of your code in the space below  

2. A screen clip of the graph of position vs. time (in blue) and velocity vs. time (in red) on the same axes in the space below  


Some resources that may be helpful:

[Reading on equations of motion for a mass-spring oscillator](#) or you prefer to listen to someone talk about it (and like old Physics movies) try [this video](#)

[Video on plotting using vPython](#)

[Original code to copy and paste](#) to modify if you didn't save the other simulation.