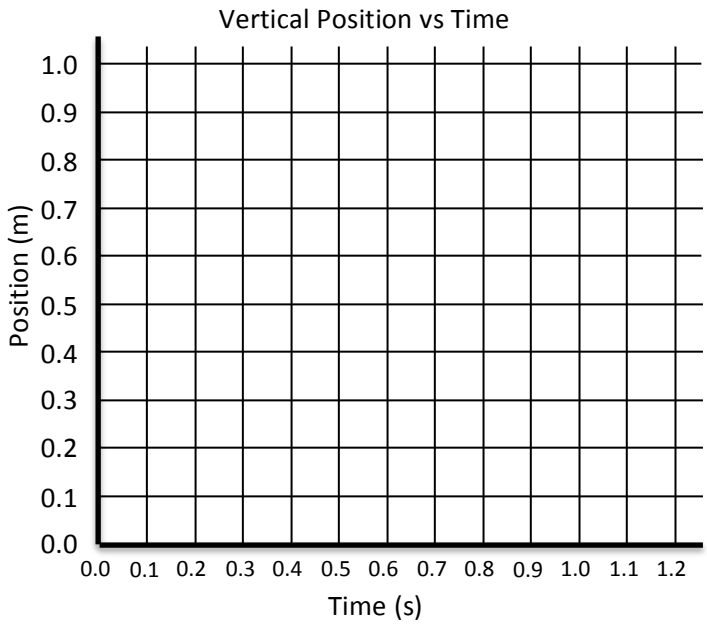
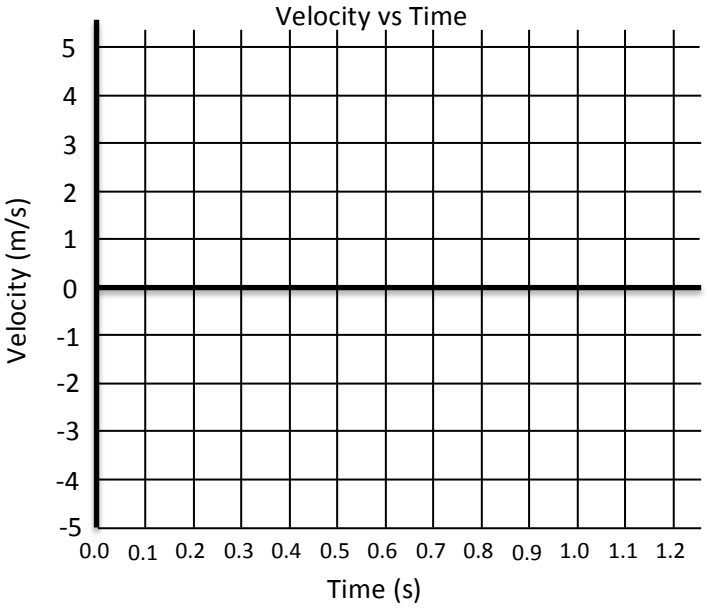
Ball Launched Up Video Lab – Simbucket Version
Physics

Name _____
1 2 3 4 5 6 7 8

Time (s)	Position (m)	Velocity (m/s)
0.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		





1. Plot position vs time

2. Calculate and plot velocity vs time for each interval

$$\bar{v} = \frac{\Delta x}{\Delta t}$$

3. Average acceleration

a. Use a best fit line on the velocity vs time graph to find the average acceleration, circle 2 points from your best fit line, and use the 2 points to compute the slope.

b. What is the average acceleration for the ball on the way up?

c. What is the average acceleration for the ball on the way down?

c. What is the acceleration of the ball at the top of its flight? Label this on both graphs.

d. What is the velocity of the ball at the top of its flight? Label this on both graphs.