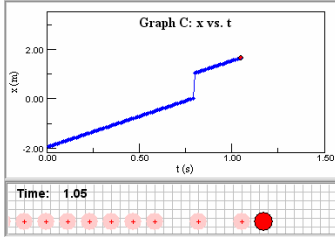


Worksheet for Exploration 2.2: Determine the Correct Graph



a. View the animation of the red ball by selecting [Ball Only](#) and describe its motion in words (**position is given in meters and time is given in seconds**). [Restart](#).

i. Record the position vs. time information in the table below for the six "shadows".

Position						
Time						

ii. For each consecutive set of points determine the displacement between shadows (you will have five). Note displacement is not the same as position.

Displacement						
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iii. How much time does it take for each displacement to occur?

- b. Now view the three possible position vs. time graphs A, B, and C by clicking the links in the table. Which one is the correct graph? Give at least one reason why each of the other two graphs is incorrect.

	Correct Plot: Yes or No	Discuss what is incorrect
A		
B		
C		

- c. Now view the three possible velocity vs. time graphs D, E, and F by clicking the links in the table. Which one is the correct graph? Give at least one reason why each of the other two graphs is incorrect.

	Correct Plot: Yes or No	Discuss what is incorrect
D		
E		
F		