Name:				
	S	peed Lab		
Hypothesis: How can we calculate the speed we sprint, jog, or walk without a radar				
gun?				
Procedure:				
•	there will be a runno will walk in a straigl			e for three seconds,
	n in a straight line for rer will use a meter		nds. distance the runner	traveled every
three secon				,
Data				
Event	Time elapsed in seconds	Distance from the start in meters. (Use this in your graph)	Distance traveled between events in meters (Use this to calculate speed for each event)	Speed for each event = distance/ time
Start	0 seconds		No data	
Walk	3 seconds			
Rest	6 seconds			
Run	9 seconds			
Calculate the averathe total distance tr Total Time = Total Distance from	aveled by the total	time it took to trave	I that distance.	ourney by dividing
Average Speed = _				

Results: Watch the following video to help you understand how to make distance-time graphs: https://www.youtube.com/watch?v=9LQdLDDEJ1g
Plot your data on graph paper to make a distance-time graph.
Analysis:
1. Why is the line for your entire journey a broken line and not one long straight line?
2. Why is the line for the rest period a straight horizontal line?
3. On a distance time graph a straight horizontal line with no slope represents
4. On a distance time graph a line with a positive slope represents
5. If you were to do another event at the end where you walk back to start how far would you

6. What would the slope look like for the event mentioned in Question 5?

travel?