

### Student Journal

8P3A Speed, Distance, Velocity, and Acceleration

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## Part II: Implement Your Investigation, continued Analyze Data

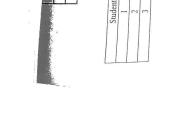
i. I	Describe the speed, velocity, and acceleration of the walker in Walk 1. (5 m)
2.	Compare the distance versus time graph and the speed versus time graph for Walk 1. (5 )
3.	Describe the speed, velocity, and acceleration of the walker in Walk 2. (10)
4.	Compare the distance versus time graph and the speed versus time graph for Walk 2. (10)
5.	Describe the speed, velocity, and acceleration of the walker in Walk 3. Usm)
6.	Compare the distance versus time graph and the speed versus time graph for Walk 3. (15~
7.	Describe the speed, velocity, and acceleration of the walker in Walk 4. (20m)
8.	Compare the distance versus time graph and the speed versus time graph for Walk 4. (10 m)



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# Part II: Implement Your Investigation, continued

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you	ch graph(s) shows movement at the highest rate of speed? How do the graphs show
	How do the graphs show
. VV	hich graph(s) shows a change in speed? Explain.
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- 1. \	Vhich graph(s) shows the walker changing direction? How do not be seen as
- 1. \	Which graph(s) shows the walker changing direction? How do you know?
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1. \	Which graph(s) shows the walker changing direction? How do you know?
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,	Which graph(s) shows the walker changing direction? How do you know?  Which graph(s) shows the walker stopping? How is this shown in the graphs?
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#### Reflections and Conclusions

- 1. Define the following in your own words.
  - (a) Speed \_
  - (b) Velocity \_
  - (c) Acceleration \_
- 2. How is speed shown on a distance v. time graph?
- 3. How can you determine if an object is accelerating by looking at a distance v. time graph?
- 4. How can you determine if an object is accelerating by looking at a speed v. time graph?

Use the graphs below to answer questions 5–8.









- 5. Which graph(s) demonstrate(s) an object traveling at a constant speed for the entire period
- 6. Which graph(s) demonstrate(s) an object changing velocity (i.e. changing speed or direction)?
- 7. Which graph(s) demonstrate(s) an object stopping for a period of time? \_\_
- 8. Which graph(s) demonstrate(s) an object accelerating for the entire period of time?

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