5.8.A.1.a Observe, describe, and compare the motions of objects using position, speed, velocity, and direction

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Dance Challenge

Name:		

Learning Goal: I will calculate and compare speed by measuring a series of dance movements in a dance phrase that I choreograph.

- **Step 1:** Use your meter stick to create a tape line 10 meters long. It should be a straight line. Use a piece of tape to mark the beginning and end of your track.
- **Step 2:** Choreograph (plan) a short dance phrase to music in class. Describe and sequence the dance movements in your dance below so you ensure you do it the same way in each trial.
- Step 3: Record the time and distance it takes you to dance in your in your data table.
- **Step 3:** Calculate the speed for each trial and the average speed.

Data: Describe the steps in your dance (this is your procedure so make sure to include detail):	

Table 1: Table of Times to Travel Entire 10 m Distance

<u>Trial</u>	Time (s)	Calculated Speed
1		
2		
3		
4		
Average		

Challenge: Change your velocity!

	why is it critical to describe your dance in detail for ensure validity in your experiment?
2.	Explain the difference between speed and velocity
3.	Were your results accurate? Why or why not?
4.	What could you have changed in this experiment to get more accurat results?
5.	How could you change your dance to maintain speed but alter velocity?
6.	Explain how your dance connected to science using 5 words from the slide on the computer screen:

5.8.A.	1.a Observe, describe, and compare the motions of objects using position, speed, velocity, and direction