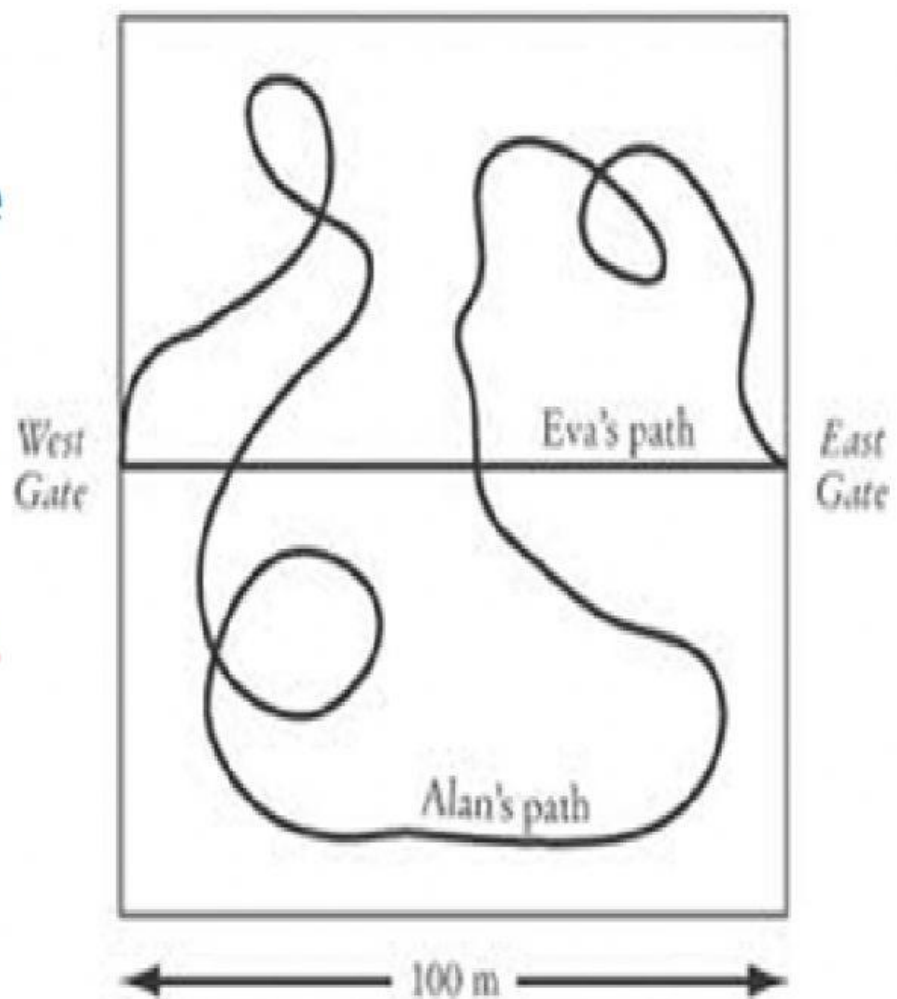Metric System Units, Speed, Velocity, and
Acceleration
Review Activities

Starter: Analyze the Picture

Directions:
Looking at the
picture, what
is the
distances and
what is the
displacement.

West
Gate

Eva's path

East
Gate

Alan's path

←———— 100 m ————→

Measurements

- Directions: Classify the following measurements as distance, time, volume (l), volume (s), mass, speed, or velocity. You will not use all the terms.

1. centimeter = distance

2. meter =

3. gram=

4. centimeter cube =

5. meters/second =

6. meters/second north =

Classify Me!

Directions: Create the following table

Distance	Time	Speed	Velocity

Directions: Classify the terms under the correct concept on your table.

1200 km/hr   3s   4m   2 cm/s east

8hr   4.0 m/s   0.10 km/hr north

3.4 cm/s   2hr   10.9 m/s south

10,000 km/s   4,000 m/s

12 cm   14 m   200 km

3,300.5 m/s   1.0 m/h   5.6 km/s west

Classify

Directions: Classify as Velocity (V) or Speed (S)

1. 2 m/s north
2. 3 km/hr
3. 8 cm/s
4. 300 m/s north
5. 8,000 km/ hr south
6. 4.5 miles/hours
7. 3,000 meters/second

Speed and Velocity
Practice Problems

Directions: Copy and Answer the following word problems about speed and velocity.

1. If a car has a constant speed traveling 80 meters/second in 20 seconds, how far is the car traveling?

2. If you walk at a constant speed traveling 2 kilometer/second in 1 kilometers, how long will it take to you walk?

3. If a lion runs 120 kilometers Northeast in 4 min, what is his velocity?

Acceleration
Practice Problems

Directions: Copy and Answer the following word problems about acceleration.

1. A man walking at 2 m/s accelerates to a velocity of 3 m/s in 1 s. What is his acceleration?

2. A train traveling at 30 m/s slows to a complete stop in 20 s. What is the acceleration of the train?