

The Power of Per

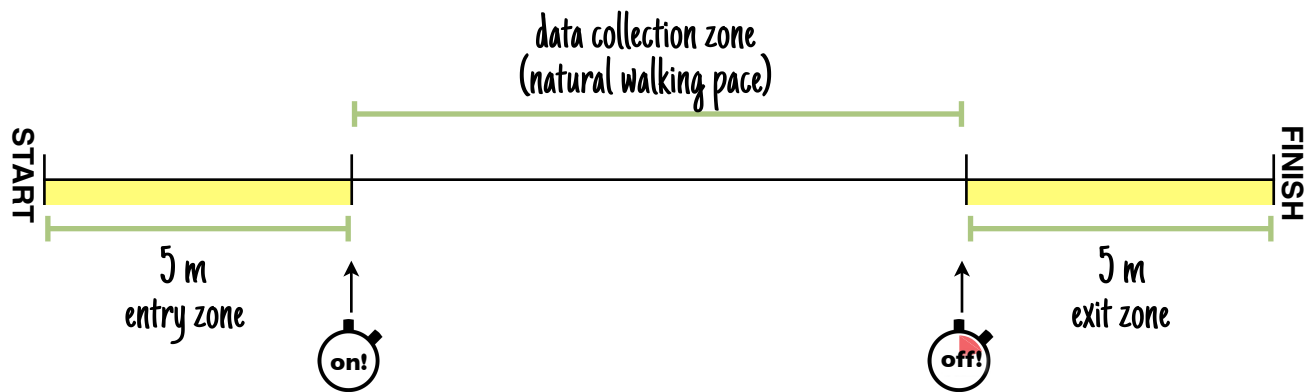
What is your natural walking pace?

When walking with friends, do you tend to struggle to keep up? Or do you have to slow down to let them catch up with you? In this activity, you and a partner will work together to measure your natural walking **pace**. When you are finished, you will be able to compare your unit **rate** (meters **per** second) with those of other students to see if you are faster or slower than others.



STEP 1: Establish the course

You and your partner will need to measure and mark off a 20-meter walking course in the way shown in the diagram below. This course might be in a hallway or an area outside.



STEP 2: Collect data

Have your partner walk the 20-meter course. At the moment he or she moves past the 5-meter entry zone and into the 10-meter data collection zone, **start** your stopwatch. At the moment he or she finishes walking through the data collection zone and crosses into the 5-meter exit zone, **stop** your stopwatch.

Write down the number of seconds (round to the nearest hundredth) it took for your partner to walk through the 10-meter data collection zone.

Repeat this procedure and average the two times. Then trade jobs so your partner can collect data about you.

Natural Walking Pace Data				
Name	Trial 1 time	Trial 2 time	Average time	Per second rate (unit rate)

STEP 3: Share your findings during a class discussion.