

# MEASURING THE SPEED OF A MOVING OBJECT

My objective is to describe the motion of a moving object by measuring its speed.

## Scientific Question:

How can we measure the speed of a moving object?

## Introduction:

Motion is a change in the position of an object. To describe the motion or position of any object, you must choose a reference point.

Speed is the distance an object moves in a given amount of time.

The average speed is the total distance traveled divided by the total time taken. It is represented by the following equation:

$$\text{average speed} = \text{total distance traveled} / \text{total time taken}$$

In this activity, you will investigate and measure the speed of an object.

## Data table:

Watch the video and record the data of any 5 race candidates in the table below.

Race candidate	Distance (m)	Time(s)

## Results:

Use the data to calculate speed.

$$\text{m/s} \quad \text{speed} = \frac{\text{distance} \begin{matrix} \nearrow \text{m} \\ \searrow \text{s} \end{matrix}}{\text{time}}$$

Speed of  
my race  
candidates



## Conclusion:

Out of all my 5 candidates \_\_\_\_\_ has the highest speed.