

Speed, Velocity, & Acceleration

Speed

The distance traveled by an object in a given amount of time.



Formula for Speed

Speed = Distance / Time

$$S = D \div T$$

Time is measured in: seconds, min, hours

It is graphed on the: x-axis

Distance is measured in: centimeters, meters, kilometers

It is graphed on the: y-axis

Speed is expressed in: m/s (meters per second)

Velocity

The distance traveled by an object in a given amount of time in a particular direction.

Speed + Direction

Acceleration



The rate at which an object's speed and/or directions changes over time.



Acceleration is expressed

m/s^2