

Basic Physics Concepts

Scalar - only a number
- only a magnitude

Vector - magnitude and direction

Scalars

Location - Where you are

Distance - the length of the
Path that you took

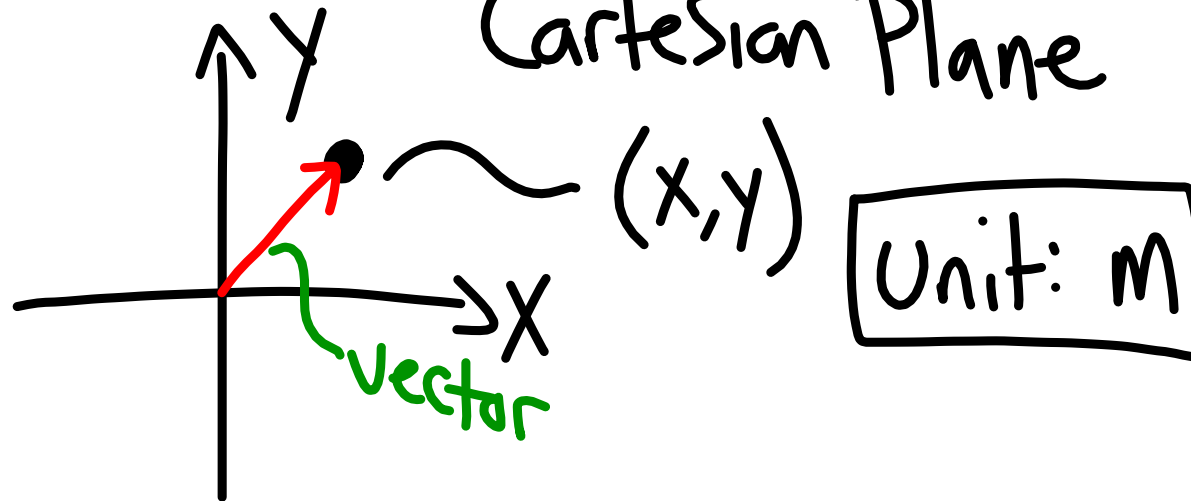


Speed - distance covered in
a given time.

time - Progression of events
relative to a point

Vectors

Position - where you are on
Cartesian Plane



displacement — distance



Unit: m

$$\text{Velocity} = \frac{\Delta \text{displacement}}{\Delta t}$$

$$\boxed{\text{Unit: } \frac{\text{m}}{\text{s}}} = \frac{x_f - x_i}{t_f - t_i}$$

acceleration - how much your
velocity changes per
second

$$= \frac{V_f - V_i}{t_f - t_i}$$

Unit: $\frac{M}{S^2}$