Motion lab

Motion

 $s = \frac{d}{t}$

Speed is described as the distance covered per amount of travel time Equation for speed: Speed =

• Velocity: How fast it is moving and direction of motion $v = \frac{d}{t}$

Acceleration is the rate at which velocity changes with time. The change in velocity may be in magnitude, in direction, or both.

Equation for acceleration:

$$a=\frac{b}{t}$$

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Displacement vs time graphs



Displacement vs time graphs



Distance (m)

Displacement vs time graphs



A ... Starts moving (from origin, zero) and goes forward slowlyB ... Not moving (position remains constant as time progresses)

C ... Turns around and goes in the other direction quickly.