

Acceleration Notes

Velocity:

How fast something is going in a given direction. Velocity is measured in km/hr or m/s.

The formula for velocity is:

$$\text{velocity} = \frac{\text{displacement}}{\text{time}} \quad \text{or} \quad v = \frac{d}{t}$$

Displacement:

Change in position. In other words, how far you moved and in which direction.

Acceleration:

$$\text{Acceleration} = \frac{\text{Change in velocity}}{\text{time}} \quad \text{or} \quad a = \frac{\Delta v}{t} \quad \text{or} \quad a = \frac{V_f - V_o}{t}$$

Acceleration occurs when something is speeding up, slowing down, or changing direction.