KINEMATICS OF LINEAR MOTION

$$a = \frac{d^2s}{dt^2}$$

$$a = \frac{ds}{dt}$$

$$a = \frac{dv}{dt}$$

Displacement	Velocity	Acceleration

$$s = \int v \, dt$$

$$v = \int a \, dt$$

Positive, Negative and Zero Displacement	Positive, Negative and Zero Velocity	Positive, Negative and Zero Acceleration

Distance Travelled in the First n Seconds

- Motion Diagram Method
- Velocity-Time Graph Method

Distance Travelled During the nth Second

$$|s_n - s_{n-1}|$$