

# Physics Equation

## Force

$$\sum \mathbf{F} = \frac{d\mathbf{p}}{dt} = \frac{d(m\mathbf{v})}{dt}$$

$$\sum \mathbf{F} = m\mathbf{a} \quad (\text{Constant Mass})$$

## Acceleration

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$$\mathbf{a}_{\text{average}} = \frac{\Delta \mathbf{v}}{\Delta t}$$

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

## Variance

$$s^2 = \frac{1}{N} \sum_{i=1}^N (x_i - \bar{x})^2$$

## Impulse

$$\mathbf{J} = \Delta \mathbf{p} = \int \mathbf{F} dt$$

$$\mathbf{J} = \mathbf{F} \Delta t \quad \text{if } \mathbf{F} \text{ is constant}$$

## Velocity

$$\mathbf{v}_{\text{average}} = \frac{\Delta \mathbf{d}}{\Delta t}$$

$$\mathbf{v} = \frac{d\mathbf{s}}{dt}$$

## Kinetic Energy

$$T = \frac{1}{2}mv^2$$

## Gravity

$$F = \frac{Gm_1m_2}{r^2}$$

## Mass Energy

$$E = mc^2$$

## Density

$$\rho = \frac{m}{v}$$

## Motion

$$v = v_0 + at$$

$$s = \frac{1}{2}(v_0 + v)t$$

$$s = v_0t + \frac{1}{2}at^2$$

$$v^2 = v_0^2 + 2as$$

## Torque

$$\sum \tau = \frac{d\mathbf{L}}{dt}$$

$$\sum \tau = \mathbf{r} \times \mathbf{F}$$

## Drude Law

$$\sigma = \frac{k}{\lambda^2 - \lambda_0^2}$$

## Charge

$$Q = It$$

# Basic Facts Of Physics

**Sebastian Brünink**



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