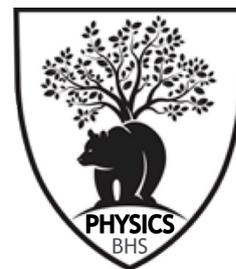


S2 Physics

Equation and Data Sheet



Electricity

$$I_s = I_1 = I_2$$

$$\text{Current}_{\text{supply}} = \text{Current}_1 = \text{Current}_2$$

$$I_s = I_1 + I_2$$

$$\text{Current}_{\text{supply}} = \text{Current}_1 + \text{Current}_2$$

$$V_s = V_1 + V_2$$

$$\text{Voltage}_{\text{supply}} = \text{Voltage}_1 + \text{Voltage}_2$$

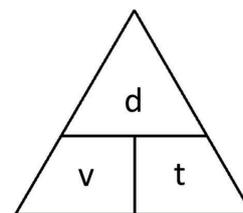
$$V_s = V_1 = V_2$$

$$\text{Voltage}_{\text{supply}} = \text{Voltage}_1 = \text{Voltage}_2$$

Forces and Transport

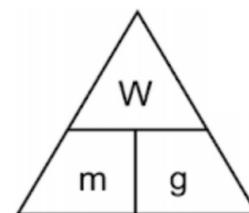
$$v = \frac{d}{t}$$

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$



$$W = mg$$

$$\text{Weight} = \text{Mass} \times \text{Gravitational Field Strength}$$



Gravitational Field Strengths on different planets:

	Gravitational field strength (N/kg)
Earth	10
Jupiter	23
Mars	3.7
Mercury	3.7
Earth's Moon	1.7

	Gravitational field strength (N/kg)
Neptune	11
Saturn	9
Uranus	8.7
Venus	8.9