

STAAR PHYSICS REFERENCE MATERIALS



FORCE AND MOTION

$$\text{Average velocity} = \frac{\text{displacement}}{\text{change in time}}$$

$$v_{\text{avg}} = \frac{\Delta d}{\Delta t}$$

$$\text{Acceleration} = \frac{\text{final v elocity} - \text{initial velocity}}{\text{change in time}}$$

$$a = \frac{v_f - v_i}{\Delta t}$$

$$\text{Acceleration} = \frac{(\text{final v elocity})^2 - (\text{initial v elocity})^2}{2(\text{displacement})}$$

$$a = \frac{v_f^2 - v_i^2}{2\Delta d}$$

$$\text{Displacement} = \left(\text{initial velocity} \right) \left(\text{change in time} \right) + \frac{1}{2} (\text{acceleration}) (\text{change in time})^2$$

$$\Delta d = v_i \Delta t + \frac{1}{2} a \Delta t^2$$

$$\text{Centripetal acceleration} = \frac{(\text{tangential v elocity})^2}{\text{radius}}$$

$$a_c = \frac{v^2}{r}$$

$$\text{Net force} = (\text{mass})(\text{acceleration})$$

$$F_{\text{net}} = m a$$

$$\text{Work} = (\text{force})(\text{distance}) W = F d$$

$$\text{Torque} = (\text{force})(\text{lever arm}) \tau = Fr$$

$$\text{Power} = \frac{\text{work}}{\text{time}}$$

$$P = \frac{W}{t}$$

$$\text{Pythagorean theorem}$$

$$a^2 + b^2 = c^2$$

GRAVITATIONAL, ELECTRICAL, AND MAGNETIC FORCES

$$\text{Force of gravitational attraction between 2 objects} = \left(\text{universal gravitation constant} \right) \left(\frac{(\text{mass of 1st object})(\text{mass of 2nd object})}{(\text{distance between centers of objects})^2} \right)$$

$$F_g = G \left(\frac{m_1 m_2}{d^2} \right)$$

$$\text{Force between 2 charged particles} = \left(\text{Coulomb's constant} \right) \left(\frac{(\text{charge of 1st particle})(\text{charge of 2nd particle})}{(\text{distance between particles})^2} \right)$$

$$F_{\text{electric}} = k_c \left(\frac{q_1 q_2}{d^2} \right)$$

$$\text{Electrical power} = (\text{voltage})(\text{current})$$

$$P = V I$$

$$\text{Current} = \frac{\text{voltage}}{\text{resistance}}$$

$$I = \frac{V}{R}$$

$$\text{Equivalent resistance for resistors in series } R = R_1 + R_2 + R_3 + \dots$$

$$\text{Equivalent resistance for resistors in parallel } \frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$$

Staar Physics Formula Chart

Tobias Bleicker

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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