

$$\text{Density} = \frac{\text{mass}}{\text{volume}}$$

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

$$\left(\begin{array}{c} \text{heat gained} \\ \text{or lost} \end{array} \right) = \left(\begin{array}{c} \text{mass in} \\ \text{grams} \end{array} \right) \left(\begin{array}{c} \text{change in} \\ \text{temperature} \end{array} \right) \left(\begin{array}{c} \text{specific} \\ \text{heat} \end{array} \right)$$

$$Q = (m \times \Delta T) \times C_p$$

$$\text{Speed} = \frac{\text{distance traveled}}{\text{time}}$$

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

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

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

$$\text{Momentum} = \text{mass} \times \text{velocity}$$

$$p = mv$$

$$\text{Force} = \text{mass} \times \text{acceleration}$$

$$F = ma$$

$$\text{Work} = \text{force} \times \text{distance}$$

$$W = Fd$$

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

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

$$\% \text{ efficiency} = \frac{\text{work output}}{\text{work input}} \times 100$$

$$\% = \frac{W_o}{W_i} \times 100$$

$$\text{Kinetic energy} = \frac{1}{2} (\text{mass} \times \text{velocity}^2)$$

$$KE = \frac{mv^2}{2}$$

$$\text{Gravitational potential energy} = \text{mass} \times \text{acceleration due to gravity} \times \text{height}$$

$$PE = mgh$$

$$\text{Energy} = \text{mass} \times (\text{speed of light})^2$$

$$E = mc^2$$

$$\text{Velocity of a wave} = \text{frequency} \times \text{wavelength}$$

$$v = f\lambda$$

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

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

$$\text{Electrical power} = \text{voltage} \times \text{current}$$

$$P = VI$$

$$\text{Electrical energy} = \text{power} \times \text{time}$$

$$E = Pt$$

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