Formulas for Physical Science

$v = \frac{\Delta x}{\Delta t}$ $\Delta x = x_f - x_i$

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

$F_{net} = m \bullet a$

$F_g = m \bullet a_g$

$p = mv$

$W = F \bullet d$

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

$MA = \frac{F_{out}}{F_{in}}$

Efficiency $= \frac{W_{out}}{W_{in}} \bullet 100\%$

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

$GPE = mgh$

$v = f\lambda$

$Q = mc\Delta T$

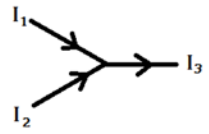
$P_1V_1 = P_2V_2$

$\frac{V_1}{T_1} = \frac{V_2}{T_2}$

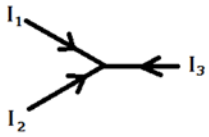
$\frac{P_1}{T_1} = \frac{P_2}{T_2}$

$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$

$PV = nRT$



$I_1 + I_2 = I_3$



$I_1 + I_2 + I_3 = 0$

$\sum_{k=1}^{n} V_k = 0$

$\varepsilon - IR_{eq} = 0$

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