

Physics Unit Dimension Cheat Sheet

$$J = \frac{kg \cdot m^2}{s^2} = N \cdot m = Pa \cdot m^3 = W \cdot s$$

$$N = \frac{kg \cdot m}{s^2}$$

$$Pa = \frac{N}{m^2} = \frac{kg}{m \cdot s^2}$$

$$V = A \cdot \Omega = \frac{W}{A} = \sqrt{W \cdot \Omega} = \frac{J}{A \cdot s} = \frac{N \cdot m}{A \cdot s} = \frac{kg \cdot m^2}{C \cdot s^2} = \frac{N \cdot m}{C} = \frac{J}{C}$$

$$T = \frac{V \cdot s}{m^2} = \frac{N}{A \cdot m} = \frac{Wb}{m^2} = \frac{kg}{C \cdot s} = \frac{kg}{A \cdot s^2} = \frac{N \cdot s}{C \cdot m}$$

$$W = \frac{J}{s} = \frac{N \cdot m}{s} = \frac{kg \cdot m^2}{s^3}$$

$$A = \frac{C}{s}$$

$$\Omega = \frac{V}{A} = \frac{m^2 \cdot kg}{s \cdot C^2} = \frac{J}{s \cdot A^2} = \frac{kg \cdot m^2}{s^3 \cdot A^2} = \frac{J \cdot s}{C^2}$$