

Variables and their Units

Variable	Symbol	Units	Miscellaneous Notes
Force	F	newtons (n)	1 newton = $1 \frac{\text{kg}\cdot\text{m}}{\text{sec}^2}$
Chair Force	CF	newtons (n)	1 newton = $1 \frac{\text{kg}\cdot\text{m}}{\text{sec}^2}$
Potential Energy	PE	newton meters (n•m)	1 newton meter = $1 \frac{\text{kg}\cdot\text{m}}{\text{sec}^2}\cdot\text{m}$
Kinetic Energy	KE	newton meters (n•m)	1 newton meter = $1 \frac{\text{kg}\cdot\text{m}}{\text{sec}^2}\cdot\text{m}$
Work going from Point 1 to Point 2	W_{1-2}	newton meters (n•m)	1 newton meter = $1 \frac{\text{kg}\cdot\text{m}}{\text{sec}^2}\cdot\text{m}$
Mass	m_{mass}	kilograms (kg)	
Velocity	v	meters per second ($\frac{\text{m}}{\text{sec}}$)	
Initial Velocity	v_0	meters per sec ($\frac{\text{m}}{\text{sec}}$)	
Velocity at Point 1	v_1	meters (m)	
Velocity at Point 2	v_2	meters (m)	
Acceleration due to Gravity	g	meters per second squared ($\frac{\text{m}}{\text{sec}^2}$)	
Acceleration	a	meters per second squared ($\frac{\text{m}}{\text{sec}^2}$)	
Height	h	meters (m)	
Height at Point 1	h_1	meters (m)	
Height at Point 2	h_2	meters (m)	
Radius	r	meters (m)	
Final Position	x_f	meters (m)	
Initial Position	x_0	meters (m)	
Force Factor	FF	dimensionless	Force Factor has no units. A Force Factor of 2 means 2 times the force of gravity.