

Physics 1401 **Kinematics, Forces, Energy**

Motion along a Line:

$$\Delta d = d_f - d_i = d - d_0, \quad \text{average speed} = \frac{\text{total distance traveled}}{\text{total time}},$$

$$v_{av} = \frac{\Delta d}{\Delta t} = \frac{d_f - d_i}{t_f - t_i}, \quad a_{av} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$$

Constant linear acceleration:

$$a = a_{av}, \quad v = v_0 + at, \quad \Delta d = \frac{1}{2}(v_0 + v)t, \quad \Delta d = v_0 t + \frac{1}{2}at^2, \quad v^2 = v_0^2 + 2a(\Delta d)$$

Forces:

$$\sum \vec{F} = m\vec{a}, \quad F_g = mg, \quad \vec{F}_N = \text{Normal Force}, \quad f_k = \mu_k F_N, \quad f_s \leq \mu_s F_N, \quad \vec{F} = -k\vec{d}$$

Circular Motion:

$$F_g = G \frac{m_1 m_2}{r^2}, \quad U_{grav} = -G \frac{m_1 m_2}{r}, \quad T^2 = \frac{4\pi^2}{GM} r_s^3 r_{cp}, \quad v_s = \sqrt{\frac{2GM}{R}}$$

$$\sum \vec{F} = m\vec{a}_{cp}, \quad a_{cp} = \frac{v^2}{r}, \quad s = r\theta, \quad v_t = r\omega, \quad a_t = r\alpha$$

Work and Energy:

$$W = \vec{F} \cdot \vec{d} = Fd \cos \theta, \quad P = \frac{W}{t} = Fv$$

$$K = \frac{1}{2}mv^2, \quad W_{net} = \Delta K, \quad U_{grav} = mgy, \quad U_{spring} = \frac{1}{2}k(\Delta d)^2$$

$$E = K + U, \quad W_c = -\Delta U, \quad W_{nc} = \Delta E$$

Linear Momentum and Impulse:

$$\vec{p} = m\vec{v}, \quad \sum \vec{F} = \lim_{\Delta t \rightarrow 0} \frac{\Delta \vec{p}}{\Delta t}, \quad \left(\sum \vec{F} \right)_{av} = \frac{\Delta \vec{p}}{\Delta t}, \quad \vec{I} = \left(\sum \vec{F} \right)_{av} \Delta t = \Delta \vec{p}$$

Center of Mass and Collision:

$$\vec{X}_{cm} = \frac{\sum_{i=1}^N m_i \vec{x}_i}{M_{total}} = \frac{m_1 \vec{x}_1 + m_2 \vec{x}_2 + \dots + m_N \vec{x}_N}{m_1 + m_2 + \dots + m_N}, \quad (N \text{ particles})$$

Collision in 1 Dimension:

$$v_{1i} + v_{1f} = v_{2i} + v_{2f}, \quad m_1 \vec{v}_{1i} + m_2 \vec{v}_{2i} = m_1 \vec{v}_{1f} + m_2 \vec{v}_{2f}$$

Conversion Factors:

1 in = 2.54 cm, 1 ft = 0.305 m, 1 mph = 0.447 m/s, 1 lb = 4.45 Newton,
1 hp = 746 Watts, 1 gallon = 3.785 liters, 1 m³ = 1000 liters,
1 cal = 4.186 J

TABLE 1-4. Common Prefixes		
Power	Prefix	Abbreviation
10 ²¹	peta	P
10 ¹⁸	tera	T
10 ¹⁵	giga	G
10 ¹²	mega	M
10 ⁹	kilo	k
10 ⁶	hecto	h
10 ³	deka	da
10 ⁻¹	deci	d
10 ⁻²	centi	c
10 ⁻³	milli	m
10 ⁻⁶	micro	μ
10 ⁻⁹	nano	n
10 ⁻¹²	pico	p
10 ⁻¹⁵	femto	f

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web summarize key points draw conclusions note that the reading comprehension section won t necessarily involve electrician related information the purpose is simply to gauge

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