



# Honors Physics Equation Sheet

Name \_\_\_\_\_

Teacher \_\_\_\_\_

Period \_\_\_\_\_

## Fall Semester

### Constant Motion

$$\Delta d = v_c t$$

### Changing Motion

$$\Delta d = v_{avg} t$$

$$v_f = v_i + at$$

$$\Delta d = v_i t + \frac{1}{2} at^2$$

$$v_f^2 = v_i^2 + 2a\Delta d$$

### Newton's Laws

$$\Sigma F = F_{net} = ma$$

$$F_g = mg \text{ (weight)}$$

$$F_{friction} \leq \mu F_N$$

$$F_{spring} = -kx$$

### 2D Motion

$$v_x = v \cos \theta$$

$$v_y = v \sin \theta$$

### UCM and Gravity

(Uniform Circular Motion)

$$F_g = \frac{Gm_1m_2}{r^2} \text{ or } \frac{Gm_1m_2}{d^2}$$

$$\tau = rF \sin \theta$$

$$T = \frac{1}{f}$$

$$v = \frac{2\pi r}{T}$$

$$a_c = \frac{v^2}{r}$$

### Work and Energy

$$W = F\Delta d \cos \theta$$

$$W_{net} = \Delta KE$$

$$W = \Delta E$$

$$PE_{gravity} = mgh$$

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

$$PE_i + KE_i = PE_f + KE_f$$

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

$$PE_{spring} = \frac{1}{2} kx^2$$

$$Q = mc\Delta T$$

$$F = \frac{9}{5} C + 32$$

$$K = 273.15 + C$$

## Spring Semester

### Impulse & Momentum

$$p = mv$$

$$m_1v_1 + m_2v_2 = m_1v_1' + m_2v_2'$$

$$J = F_{net}\Delta t = \Delta p = m\Delta v$$

### Mechanical Waves

$$v = \lambda f$$

$$\lambda_n = \frac{2L}{n} \text{ or } \lambda_n = \frac{4L}{n}$$

$$f_n = nf_1$$

### Electromagnetic Waves

$$c = \lambda f$$

$$n = \frac{c}{v}$$

$$n_i \sin \theta_i = n_r \sin \theta_r$$

$$M = \frac{h_i}{h_o} = -\frac{d_i}{d_o}$$

$$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$$

$$f = \frac{R}{2}$$

### Electrostatics

$$Q = Ne$$

$$F_e = \frac{kq_1q_2}{r^2} \text{ or } \frac{kq_1q_2}{d^2}$$

$$E = \frac{F_e}{q}$$

$$E = \frac{kQ}{r^2}$$

$$V = \frac{W}{q}$$

### Circuits

$$V = iR$$

$$P = IV = i^2R = \frac{V^2}{R}$$

$$i = \frac{Q}{t}$$

$$R = \frac{\rho L}{A}$$

$$\frac{1}{R_{parallel}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$$

### Magnetism

$$F_B = qvB \sin \theta$$

$$F_B = BiL \sin \theta$$

$$B = \frac{\mu_0 i}{2\pi r}$$

$$\frac{V_p}{V_s} = \frac{i_s}{i_p}$$

### Modern

$$E = Pt$$

$$E = hf$$

$$W = hf_i$$

$$KE = E - W$$

$$KE = hf - hf_i$$

$$E_n = \frac{E_1}{n^2} \text{ (Hydrogen ONLY)}$$

$$\lambda = \frac{h}{p} = \frac{h}{mv}$$

$$E = mc^2$$

**Working Equation** - Algebraically manipulate your equation(s) solving for the unknown variable. The working equation may only have variables identified in the given.

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