

Physics Unit 6 Review **ANSWER KEY**

Directions: On a separate sheet of paper, answer the following questions based upon your notes for Unit 6. For the math problems, be sure to show all of your work including an answer with correct units.

Simple Harmonic Motion

- What is simple harmonic motion? *Any periodic motion that is the result of a restoring force.*
- What is period? *The time it takes for an object to complete one full cycle of motion.*
- What is frequency? *The number of complete cycles an object goes through per unit of time.*
- What is the relationship between period and frequency? $T = 1/f$
- What is the restoring force? *Hooke's Law: $F = -kx$*
- When is acceleration at a maximum? *Acceleration is a maximum when displacement is a maximum.*
- When is velocity at a maximum? *Velocity is a maximum when displacement is at equilibrium or displacement is 0.*
- When is the restoring force at a maximum? *Restoring force is a maximum at maximum displacement.*
- What is the formula for calculating the period of a spring that oscillates in simple harmonic motion? (Write down what each variable stands for) $T = 2\pi\sqrt{m/k}$

The Simple Pendulum

- What is the restoring force equal to on a Pendulum? *The weight of the bob.*
- What are the only two forces acting in a pendulum system? *Weight of the bob and tension in the string.*
- When is the gravitational potential energy at a maximum? Why? *When displacement from equilibrium is at a maximum because the bob is at its maximum height. $GPE = mgh$*
- What is the formula for calculating the period of a simple pendulum? (Write down what each variable stands for) $T = 2\pi\sqrt{l/g}$

Properties of Waves

- Draw a graph of a sinusoidal wave (yes, the same wave we have been drawing this whole time) and label the following things:
 - Amplitude (*maximum displacement from equilibrium*), wavelength (*distance between two points on a wave that behave the same*), trough (*lowest point on a wave*), crest (*highest point on a wave*)
- How do you measure the wavelength on a graph? *Crest to crest OR trough to trough*
- What is the fundamental wave equation? (Write down what each variable stands for) $v = \lambda f$. *v=frequency, v=velocity, λ =wavelength*
- What are the two types of waves? *Transverse & Longitudinal*
- How does the motion of the wave compare to the vibrations of the wave in each of the types of waves? *Transverse – wave motion and wave vibrations are perpendicular to one another. Longitudinal – wave motion and wave vibrations are parallel to one another.*

Interference

- What is the superposition principle? *If two or more traveling waves are moving through a medium, the resulting wave is found by adding together the displacements of the individual waves point by point.*
- Define constructive interference and how to find it if given a graph. (Hint: what two points on a wave must meet) *When two waves meet at the same point (crest to crest, trough to trough) in order to add their amplitudes together to create a bigger wave.*
- Define destructive interference and how to find it if given a graph. (Hint: what two points on a wave must meet) *When two waves meet at different points (crest to trough) in order to subtract their amplitudes to create a smaller wave.*

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George Worthington

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