

Simple Harmonic Motion Review W.S.

- Know where the following are at the maximum and zero for a pendulum and an oscillating spring:
 - velocity
 - acceleration
 - potential energy
 - kinetic energy
 - restoring force
- A mass on a spring and a simple pendulum undergo simple harmonic motion. There is no friction present. Which of the following statements are true for both masses? **Select two answers.**
 - The mechanical energy is constant.
 - The momentum of the mass is constant.
 - The period on the mass is constant.
 - The restoring force in is constant.
- Know the equation to find the period of a pendulum and an oscillating spring. Based on these equations, what affects the period in each case?

- A simple pendulum has a period of 1.76 s. Assuming the acceleration due to gravity is 9.8 m/s², what is the length of the pendulum? (L = 0.77 m)

$$T = 2\pi\sqrt{\frac{L}{g}} \Rightarrow \left(\frac{T}{2\pi}\right)^2 = L \Rightarrow \left(\frac{1.76}{2\pi}\right)^2 (9.8) = .77 \text{ m}$$

- A 300 g mass at the end of a spring oscillates with a period of 2.4 seconds. Find the period of oscillation of a 133 g mass attached to the same spring. (T = 1.60 seconds)

$$T = 2\pi\sqrt{\frac{m}{k}} \Rightarrow k = \frac{m}{\left(\frac{T}{2\pi}\right)^2} = m \left(\frac{2\pi}{T}\right)^2 = .3 \left(\frac{2\pi}{2.4}\right)^2 = 2.06 \quad \Bigg/ \quad T = 2\pi\sqrt{\frac{.133}{2.06}} = 1.6 \text{ s}$$

- What is the frequency of a block that has an acceleration of -3.3 m/s² when the block is 0.30 m from its equilibrium position? (f = 0.53 Hz)

$$-a = 4\pi^2 f^2 x \quad f = \sqrt{\frac{-a}{4\pi^2 x}} = \sqrt{\frac{3.3}{(4\pi^2)(.30)}} = .53 \text{ Hz}$$

Holt Physics Simple Harmonic Motion Answers

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