

Physics Study Guide

Ch 14 - 16: Oscillations and Waves

Questions from Ch14:

1. What does it mean for something to be oscillating?
 - a. **An object is moving with regular variation in magnitude or position around a central point**
2. Give an example of an object oscillating.
 - a. **Guitar string**
3. Draw a transverse wave and label the following on it: Wavelength, amplitude, equilibrium, crest, and trough.



- a.
4. How are frequency and period related to one another?
 - a. **They have an inverse relationship. $T = 1/f$ and $f = 1/T$**
 5. Use the position time graph for a mass on a spring to answer the questions below. The period is 4 seconds.



- a.
- b. **Where is the mass at rest? At the crests and the troughs**
 - c. **Where is the mass moving with maximum velocity? The point where it moves through the equilibrium position.**
 - d. **Where is the mass completely compressed? At the crests**
6. For a mass on a spring, what energy transformations are taking place? **Spring/elastic potential energy is being changed to kinetic energy and back to potential.**
 7. For a mass on a spring the frequency/period is dependent upon what variable(s)? **The amount of mass and the spring constant**
 8. For a pendulum the frequency/period is dependent upon what variable(s)? **The length of the string**
 9. When a guitar plays the note "A", the string vibrates at 440 Hz. What is the period of the vibration? **$1/440$ s or 0.00227 s.**

Physics Study Guide Waves

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Wolfson, Jay M. Pasachoff**



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