

## CHAPTER

## 14

## Study Guide

## Vibrations and Waves

## Vocabulary Review

Write the term that correctly completes the statement. Use each term once.

amplitude

longitudinal wave

transverse wave

antinode

node

trough

crest

period

wave

frequency

periodic motion

wavelength

interference

refraction

1. \_\_\_\_\_ The time needed for an object to complete one full cycle of simple harmonic motion is the \_\_\_\_\_.
2. \_\_\_\_\_ \_\_\_\_\_ occurs when more than one wave moves through the same medium at the same time.
3. \_\_\_\_\_ When waves are superposed, any point that does not experience displacement is a(n) \_\_\_\_\_.
4. \_\_\_\_\_ A disturbance that carries energy through matter or space is a(n) \_\_\_\_\_.
5. \_\_\_\_\_ A wave in which the disturbance is parallel to the direction of travel is a(n) \_\_\_\_\_.
6. \_\_\_\_\_ The maximum distance an object in simple harmonic motion moves from equilibrium is called the \_\_\_\_\_.
7. \_\_\_\_\_ The lowest point of a transverse wave is the \_\_\_\_\_.
8. \_\_\_\_\_ The shortest distance between two points where the wave pattern repeats is the \_\_\_\_\_.
9. \_\_\_\_\_ Any motion that repeats in a regular cycle is called \_\_\_\_\_.
10. \_\_\_\_\_ When two waves interfere constructively, the point with the greatest displacement is called the \_\_\_\_\_.
11. \_\_\_\_\_ A(n) \_\_\_\_\_ travels in a direction perpendicular to its displacement.
12. \_\_\_\_\_ The number of complete oscillations a wave makes each second is the \_\_\_\_\_ of the wave.
13. \_\_\_\_\_ \_\_\_\_\_ refers to the change in direction waves experience at the boundary between two different media.
14. \_\_\_\_\_ The highest point of a transverse wave is the \_\_\_\_\_.

# Chapter 14 Study Guide Answers Physics

**Christian G. Meyer**



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