

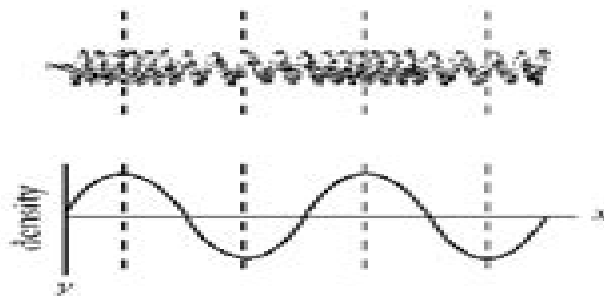
Waves Study Guide

Multiple Choice (Identify the choice that best completes the statement or answers the question. Circle your answer and write it on the line to the left.)

Be able to define:

Wave, Longitudinal wave, transverse wave, crest, trough, amplitude, wavelength, compression, rarefaction, frequency, period, reflection, refraction, superposition, interference, constructive interference, destructive interference, resultant, object, image, upright, inverted, real, imaginary/virtual, magnified, reduced

- ____ 15. A wave travels through a medium. As the wave passes, the particles of the medium vibrate in a direction perpendicular to the direction of the wave's motion. The wave is
a. longitudinal. b. a pulse. c. electromagnetic. d. transverse.



- ____ 16. Each compression in the longitudinal wave shown above matches this feature of the transverse wave below it.
a. wavelength b. crests c. troughs d. amplitude
- ____ 17. Each stretched region in the waveform of the longitudinal wave shown above corresponds to what feature of the transverse wave below it?
a. wavelength b. crests c. troughs d. amplitude
- ____ 18. Which of the following most affects the wavelength of a mechanical wave moving through a medium? Assume that the frequency of the wave remains constant.
a. atomic bonds b. the amplitude c. the height of a crest d. the energy carried by the wave
- ____ 19. Suppose that two sound waves passing through the same medium have different wavelengths. Which of the following is most likely to be the reason for the differing wavelengths?
a. the nature of the medium b. differences in amplitude c. differences in frequency d. the type of wave
- ____ 20. Two waves traveling in opposite directions on a rope meet and undergo complete destructive interference. Which of the following best describes the waves a moment after the waves meet and coincide?
a. The waves no longer exist. b. The waves continue unchanged. c. The waves reflect and travel backward. d. A single wave continues along the rope.
- ____ 21. When two mechanical waves coincide, the amplitude of the resultant wave is always ____ the amplitudes of each wave alone.
a. greater than b. less than c. the sum of d. the same as

Wave Study Guide Questions

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Wave Study Guide Questions:

Study Guide for Fundamentals of Radio Gerald W. Sielaff, 1963 **Understanding Physics** David C. Cassidy, Gerald Holton, F. James Rutherford, 2013-11-27

Understanding Physics provides a thorough grounding in contemporary physics while placing physics into its social and historical context. Based in large part on the highly respected Project Physics Course developed by two of the authors, it also integrates the results of recent pedagogical research. The text thus teaches about the basic phenomena in the physical world and the concepts developed to explain them, shows that science is a rational human endeavor with a long and continuing tradition involving many different cultures and people, develops facility in critical thinking, reasoned argumentation, evaluation of evidence, mathematical modeling, and ethical values. The treatment emphasizes not only what we know but also how we know it, why we believe it, and what effects that knowledge has. Why do we believe the Earth and planets revolve around the Sun? Why do we believe that matter is made of atoms? How do relativity theory and quantum mechanics alter our conception of Nature, and in what ways do they leave the classical concepts unchanged? What impact does the knowledge of finite energy resources have on our society? How have applications of fundamental science such as the steam engine, the laser, the electric generator, the transistor affected our lives? How does the evidence for non-scientific ideas such as UFOs, ESP, and the like differ from the evidence for accepted scientific results?

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