

Name: _____ Date: _____
Standing Waves and Light Waves **Key**

<p>Multiple Choice (1 point each, 10 points total)</p> <p>1. A string fixed at both ends is vibrating in its third harmonic. The number of antinodes is _____ and the number of nodes is _____.</p> <p>2. A string fixed at both ends is vibrating in its second harmonic. The number of antinodes is _____ and the number of nodes is _____.</p> <p>3. A string fixed at both ends is vibrating in its first harmonic. The number of antinodes is _____ and the number of nodes is _____.</p>	<p>Short Answer (1 point each, 10 points total)</p> <p>4. A string fixed at both ends is vibrating in its third harmonic. The length of the string is 1.5 m. What is the wavelength of the standing wave?</p> <p>5. A string fixed at both ends is vibrating in its second harmonic. The length of the string is 1.5 m. What is the wavelength of the standing wave?</p> <p>6. A string fixed at both ends is vibrating in its first harmonic. The length of the string is 1.5 m. What is the wavelength of the standing wave?</p>
<p>Diagram (1 point)</p> <p>7. A string fixed at both ends is vibrating in its third harmonic. Draw a diagram of the standing wave showing the antinodes and nodes.</p>	<p>Graph (1 point)</p> <p>8. A graph shows the displacement of a string fixed at both ends vibrating in its third harmonic. The x-axis is position (m) and the y-axis is displacement (m). The string is 1.5 m long. What is the wavelength of the standing wave?</p>
<p>Graph (1 point)</p> <p>9. A graph shows the displacement of a string fixed at both ends vibrating in its second harmonic. The x-axis is position (m) and the y-axis is displacement (m). The string is 1.5 m long. What is the wavelength of the standing wave?</p>	<p>Graph (1 point)</p> <p>10. A graph shows the displacement of a string fixed at both ends vibrating in its first harmonic. The x-axis is position (m) and the y-axis is displacement (m). The string is 1.5 m long. What is the wavelength of the standing wave?</p>

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Standing Waves Ch 12:1 In a moving wave, the wave moves away from what drives it. Waves that move away from a rock in a pond are driven by the force of the rock pushing through the water. (Harmonic) 2 crest Wave motion trough Distance (m) A graph of wave for this distance. The largest wave that can be produced in a certain distance is

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Physics 2204 Worksheet: Standing Waves and Beats NAME: ____ 1. A 0.70-m long guitar string vibrates with standing waves. The first harmonic has a frequency of 261 Hz. A) Sketch the standing wave patterns for the first three harmonics. B) Calculate the wavelength of the first three harmonics. C) Calculate the frequency of the first three harmonics. 2. An open air column 0.70 m long produces ...

Physics 2204 Worksheet: Standing Waves and Beats NAME: Hz ...

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About This Quiz & Worksheet. These resources are designed to strengthen your knowledge of standing waves. Topics covered in these tools include nodes in standing waves, harmonic series and finding ...

Quiz & Worksheet - Standing Wave | Study.com

Key for Waves Unit 2, Worksheet 5 l. The illustration below shows a series of transverse waves. Label each part in the space provided. b. c. d.

KM 654e-20170501081003

A standing wave is a wave that appears to stand in one place even though it is really two waves interfering when their parts pass through each other. When vibrations create a transverse wave that reflects back the crest and troughs align causing areas of constructive and destructive interference. The part of a standing wave that includes the crest and troughs is called the antinode. The part where the wave does not move and has an amplitude of zero is called the node. Node Antinode

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The Solutions Guide - Answers, Explanations, and More

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Physics Curriculum at The Physics Classroom

Answer parts C & D, using the following terms in your answers: wave, reflected, standing, constructive, destructive, interference. c. What causes every Node? d. What causes every Anti-Node? Fun extra extension: You can easily experience standing waves in your microwave. Disable the rotating platform by flipping it upside down, then place a large flat plate on the top. Oh yeah, the plate should ...

Wave Simulation Lab.doc - Google Docs

Choose one team to share their drawings on the board and explain their answer.) (slide 5) Types of waves: Some examples of waves include light waves, sound waves, ocean waves, seismic waves, pressure waves, compression waves, and standing waves. An animation of a standing wave is provided. The nodes on the standing wave are locations where there is no movement. Standing waves can be created by ...

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Assess students' knowledge and understanding of the waves with this science printable. Students will interpret diagrams of transverse and longitudinal waves, answer multiple-choice questions, and write about waves. Refraction, compression, amplitude, frequency, and other key terms are covered in this test.

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