

Wave on a String Lab - Answers

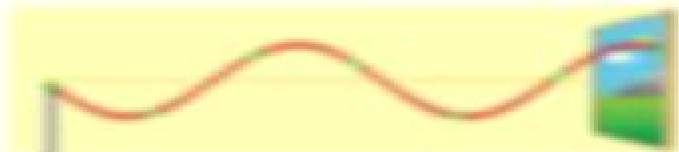
Set up the Simulation

1. Open the **Wave on a String Simulation**
2. Set the simulation to **Oscillate** (top left)
3. Set the simulation to **No End** (top right)
4. Set damping slider to **None** and tension slider to **High** (bottom middle)
5. Check the box for **Rulers** (bottom right)

$$v = f\lambda$$

Describe

Click the "Oscillate" button. Describe what is happening.

Description	String goes up and down in a waveform moving to the right
Drawing	

Data

Measure wavelength and calculate speed in the table below. Move the frequency and amplitude sliders to the numbers listed in each row. Let the wave run for a few seconds and then pause the wave and use the ruler to measure the wavelength. Record your wavelength and use that value along with the frequency to calculate speed (shown in cm/s for this)

Amplitude	Frequency	Wavelength (cm)	Speed (cm/s)
0.75 cm	1.50 Hz	4.2 cm	6.3 cm/s
1.25 cm	1.50 Hz	4.2 cm	6.3 cm/s
0.75 cm	2.10 Hz	3 cm	6.3 cm/s
1.25 cm	2.10 Hz	3 cm	6.3 cm/s
0.75 cm	3.00 Hz	2.1 cm	6.3 cm/s
1.25 cm	3.00 Hz	2.1 cm	6.3 cm/s

Wave On A String Phet Lab Answers

Brandon Miller



Wave On A String Phet Lab Answers:

Vibrating Strings David Russell Bland,1960 Waves Rumi Michael Leigh,2023-05-24 Waves Things You Should Know Questions and Answers explains the principles of wave motion through a question and answer format The text covers frequency wavelength amplitude velocity and energy transfer with worked examples to show how these properties are applied in physics Topics include mechanical waves sound waves light waves and electromagnetic waves with attention to how they propagate and interact Exercises move from basic definitions to more advanced problems including calculations of wave speed period and phase difference The book also examines reflection refraction interference and resonance connecting theoretical concepts with problem solving practice This book will interest students physics learners and exam candidates who want to study waves and their role in science A geometric approach to determining conservation laws for waves on a string Brandon Miller,2017 High Partial Waves in a String Flip-flop Model of Quark Confinement Eric Raiten,1986

Wave Phenomena Dudley H. Towne,2014-01-01 This excellent undergraduate level text emphasizes optics and acoustics covering inductive derivation of the equation for transverse waves on a string acoustic plane waves boundary value problems polarization three dimensional waves and more With numerous problems solutions for about half The material is superbly chosen and brilliantly written Physics Today Problems Appendices

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