

Wave on a String Lab - Answers

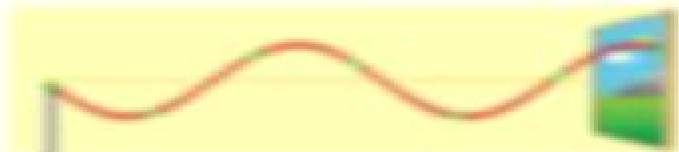
Set up the Simulation

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 (leave in cm 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

Waves On A String Simulation Lab Answers

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The Software Encyclopedia 2001 ,2001 **INIS Atomindex** ,1987 *Physics Briefs* ,1993 **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2000 *Bulletin of the Atomic Scientists* ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **The Journal of Nutrition** ,1967 Vols 7 42 include the Proceedings of the annual meeting of the American Institute of Nutrition 1st 9th 11th 14th 1934 1942 1947 1950 1st 8th 1934 1941 issued as supplements to the journal **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

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