

Wave on a String Lab - Answers

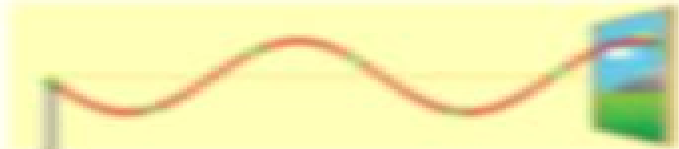
Set up the Simulation

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

Waves On A String Simulation Lab Answers

S Ben Porath



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