

Waves Lab

Find (Google) the definition of these parts of the wave. Write the definition and with Google Draw screen capture and label the part of the wave and place it in the chart.

Word	Definition	Picture
Wavelength		
Amplitude		
Crest		
Trough		

Now set the lab with the following specifics. Amplitude at .5cm, Frequency 1Hz, Damping 0, Tension High, Oscillating Wave and No End. Complete the tables and answer the questions

Amplitude	Frequency	Wavelength (Measure with Ruler)	Wave Speed (Wavelength x Frequency)
.5 cm	1 Hz		
.5 cm	1.25 Hz		
.5 cm	1.5 Hz		
.5 cm	1.75 Hz		
.5 cm	2 Hz		
.5 cm	2.25 Hz		
.5 cm	2.5 Hz		
.5 cm	2.75 Hz		
.5 cm	3 Hz		

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1 cm	2.75 Hz		
1 cm	3 Hz		

Does Amplitude play a factor in wave speed?

What happens to wavelength as frequency increases?

What happens to velocity as frequency increases?