

Name: _____ Date: _____ Hour: 1 2 3 4 5 6

Timer/Recorder: _____ Rope Holder: _____ Source of energy/counter: _____

Wave Properties Lab

Objective: Students will demonstrate analysis of properties of waves and relate them to the energy they carry.

Materials: Rope, meterstick, stopwatch (cell phone), pencil, calculator.

Procedure:

1. With a partner, stretch your rope across an open floor and measure the length of the rope. Record this measurement using meters in data table 1. Make sure the rope is stretched the same length for each step.
2. Have your partner hold one end of the rope. Create a single wave by shaking the other end of the rope back and forth.
3. Have a third person use a stopwatch to measure the time needed for the wave to travel the length of the rope. Record this measurement in the *Wave Time* column of your data table for wave 1.
4. Repeat steps 2 and 3 two more times for waves 2 and 3.
5. **Calculate** the speed of waves 1,2, and 3 in your data table by using the formula **speed= distance/time**. Average the speeds of waves 1,2, and 3 to find the speed of waves on your rope.
6. **Create** a wave with several wavelengths. You make one wavelength when your hand makes one back and forth motion. Count the number of wavelengths that you generate in 10 seconds. Record this measurement for wave 4 in the *Wavelength Count* column in your data table.
7. **Repeat** step 6 two more times. Each time, create a wave with a different wavelength by shaking the rope faster or slower. Record these measurements for wave 5 and wave 6.

Analyze:

1. **Calculate** the frequency of waves 4, 5 and 6 by dividing the number of wavelengths (cycles) by 10 seconds.
2. Find the period using the calculated frequency.
3. **Calculate** the wavelength of waves 4, 5, and 6 using the equation:
wave speed=frequency x wavelength. Use the average speed calculated in table 1 for the wave speed.

Wave Property Measurement

Table 1:

Wave	Rope Length (m) 100 cm= 1 m	Wave Time (s)	Wave Speed (m/s)
Wave 1			
Wave 2			
Wave 3			

Average Speed:

Table 2:

Wave	Wavelength Count (cycles)	Frequency (Hz) (cycles/sec)	Period (s)	Wavelength (m)
Wave 4				
Wave 5				
Wave 6				

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BM King



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Wave Properties Lab 25 Answerkey Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Wave Properties Lab 25 Answerkey**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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