

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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U.S. Government Research Reports ,1963 **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960 **Plasma Physics and Magnetohydrodynamics** ,1963 **Scientific and Technical Aerospace Reports** ,1967 **EPIE Materials Report** EPIE Institute,1978 **Chemical Abstracts** ,1915 *U.S. Government Research & Development Reports* ,1965 *Journal of the Soil Mechanics and Foundations Division* ,1963 **Technical Information Pilot** ,1949 **Bibliography of Scientific and Industrial Reports** ,1962-07 **U.S. Government Research and Development Reports** ,1965 **Directional Wavenumber Characteristics of Short Sea Waves** Nicole Marie Suoja,2000 Short waves on the ocean surface play an important role in surface electromagnetic e m scattering Electromagnetic scattering theory is well developed but the short wavelength portion of the surface wave field has only recently been experimentally explored and a single consistent model of the wave height spectrum has yet to be developed A new instrument was developed to measure the height of waves with 2 30 cm wavelengths at an array of locations which can be post processed to generate an estimate of the two dimensional wave height spectrum **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994 International Aerospace Abstracts ,1997 **Bibliography of Scientific and Industrial Reports** ,1965-07 **Government Reports Announcements** ,1972 **INIS Atomindex** ,1994 **Handbook for Electrical Engineers** ,1917 **The Journal of the Acoustical Society of America** ,1977 Solutions to Coastal Disasters '02 Lesley Ewing,Louise Wallendorf,2002 This collection contains 83 papers presented at the Solutions to Coastal Disasters 2002 Conference held in San Diego California February 24 27 2002

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Table of Contents Wave Properties 25 Lab Answers

1. Understanding the eBook Wave Properties 25 Lab Answers
 - The Rise of Digital Reading Wave Properties 25 Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Wave Properties 25 Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wave Properties 25 Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wave Properties 25 Lab Answers
 - Personalized Recommendations
 - Wave Properties 25 Lab Answers User Reviews and Ratings
 - Wave Properties 25 Lab Answers and Bestseller Lists
5. Accessing Wave Properties 25 Lab Answers Free and Paid eBooks
 - Wave Properties 25 Lab Answers Public Domain eBooks
 - Wave Properties 25 Lab Answers eBook Subscription Services
 - Wave Properties 25 Lab Answers Budget-Friendly Options

6. Navigating Wave Properties 25 Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Wave Properties 25 Lab Answers Compatibility with Devices
 - Wave Properties 25 Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wave Properties 25 Lab Answers
 - Highlighting and Note-Taking Wave Properties 25 Lab Answers
 - Interactive Elements Wave Properties 25 Lab Answers
8. Staying Engaged with Wave Properties 25 Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wave Properties 25 Lab Answers
9. Balancing eBooks and Physical Books Wave Properties 25 Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wave Properties 25 Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Wave Properties 25 Lab Answers
 - Setting Reading Goals Wave Properties 25 Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Wave Properties 25 Lab Answers
 - Fact-Checking eBook Content of Wave Properties 25 Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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