

LAB: OBSERVING WAVE PROPERTIES

Introduction:

A wave is a disturbance that transfers energy from one place to another. Most waves require a material to travel through. A medium is a substance or material that carries a wave and includes water, air, ropes, and earth. Waves that require mediums to travel are called mechanical waves. Transverse waves are mechanical waves in which the particles of the medium move perpendicular to the direction of wave travel. Longitudinal waves are mechanical waves in which the particles of the medium move parallel to the direction of wave travel. All waves have 4 basic properties: amplitude, wavelength, frequency, and speed.



LAB

Wave Properties



Part A...Speed of a Wave:

1. On a smooth floor, stretch out a long rope or spring toy. Have one end securely while the second partner holds the other. Have the third partner measure the length using a meterstick or measuring tape. Record the length in Data Table 1. Ensure the rope is stretched to the same length for each step.
2. Create a single wave pulse by having one partner shake their end of the rope left, right, and left again. Observe the wave, troughs, and amplitude of the wave that is generated.
3. Create another single wave pulse with the same motion in Step 2. Have a third partner measure the time required for the wave to travel the entire length of the rope. Record this value in Data Table 1.
4. Repeat step 4 two more times with the same wave motion for each trial.

Part B...Frequency and Wavelength of a Wave:

5. Create a series of waves by having one partner shake their end of the rope at a steady rate.
6. Continue making waves. Have the second partner observe a specific part of the rope and count the number of wavelengths that pass by in 10 seconds while the third partner moves with a stopwatch.
7. Record this value in Data Table 2.
8. Repeat Step 7 two more times but vary the wavelength by shaking the rope faster or slower.

Wave Properties Lab 25 Answer Key

Hussin A.Rothana



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Nuclear Science Abstracts, 1975 **U.S. Government Research Reports**, 1964 **The Shock and Vibration Digest**, 1975 **Plasma Physics and Magnetohydrodynamics** Defense Documentation Center (U.S.), 1962 **Energy Research Abstracts**, 1979 *Scientific and Technical Aerospace Reports*, 1972 Plasma Physics and Magnetohydrodynamics, 1963

Technical Abstract Bulletin, 1964 **Key-words-in-context Title Index**, 1962 Selected Water Resources Abstracts, 1980 *Topic-wise 18 Previous Year NDA/ NA English & General Knowledge Solved Papers Phase I & II (2006 - 2023) 4th Edition* | **35 Authentic General Ability Test Papers** | **5250 MCQs**, The 4th updated edition of the book Topic wise 18 Previous Year NDA NA General Ability Test Solved Papers 2006 2023 contains 35 Question papers of English and General Knowledge held from April 2006 to September 2023 General Ability Test is divided into 2 parts English and General Knowledge which are further distributed into 33 Topics English is divided into 9 topics whereas General Knowledge is divided into 7 Units Physics Chemistry Biology History Polity Geography and General Awareness which are further divided into 24 topics The Book consist of more than 5250 MCQ s 1750 in English 3500 in GK The strength of the book lies in the originality of its question papers and Errorless Solutions Detailed step by step solutions to questions to provide 100% concept clarity to the students **NDA/ NA 17 years English & General Knowledge Topic-wise Solved Papers (2006 - 2022) 3rd Edition** Disha Experts, 2022-05-04 NDA NA 17 year Topic wise Solved Papers 2006 2022 consists of last 17 years from 2006 2022 solved papers of General Ability Test distributed into 33 topics In all there are 31 Question papers 2006 April 2022 April General Ability Test is divided into 2 parts English and General Knowledge English is divided into 9 topics whereas General Knowledge is divided into 7 Units Physics Chemistry Biology History Polity Geography and General Awareness which are further divided into 24 topics The book contains 4650 MCQ s 1550 in English 3100 in GK from the above 31 Question papers The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students

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