

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				

Wave Properties Lab Answers

**University of Illinois at Urbana-
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Basic Physical Science Helen Dolman MacCracken, 1964 Modules, 2005 Nuclear Science Abstracts, 1976 **Scientific and Technical Aerospace Reports**, 1992 **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30

With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them. Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8. The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards. This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers. The curriculum materials in the new guide are grouped in five chapters by scientific area: Physical Science, Life Science, Environmental Science, Earth and Space Science, and Multidisciplinary and Applied Science. They are also grouped by type: core materials, supplementary units, and science activity books. Each annotation of curriculum material includes a recommended grade level, a description of the activities involved, and of what students can be expected to learn, a list of accompanying materials, a reading level, and ordering information. The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide. The criteria reflect and incorporate goals and principles of the National Science Education Standards. The annotations designate the specific content standards on which these curriculum pieces focus. In addition to the curriculum chapters, the guide contains six chapters of diverse resources that are directly relevant to middle school science. Among these is a chapter on educational software and multimedia programs, chapters on books about science and teaching, directories and guides to science trade books and periodicals for teachers and students. Another section features institutional resources. One chapter lists about 600 science centers, museums, and zoos where teachers can take middle school students for interactive science experiences. Another chapter describes nearly 140 professional associations.

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