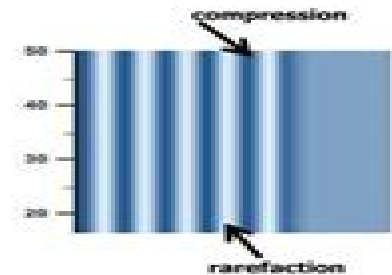


Student Exploration: Ripple Tank

Ripple tanks are particularly useful because many properties of water waves are shared by other kinds of waves that are harder to see. A ripple tank, such as the one shown in the *Ripple Tank Gizmo™*, is a shallow pan of water with a vibrating motor that produces waves that can be compared to *longitudinal* waves. The tank is lit from above so that the areas of *compressions* and *rarefactions* are visible. The light regions represent rarefactions (the water is less deep so the light shines through it), while the dark areas represent compressions (the water is deeper so light does not penetrate as well).



Exploration A: Factors that control diffraction

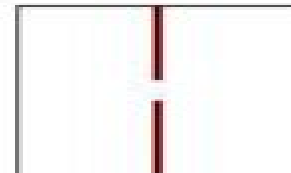
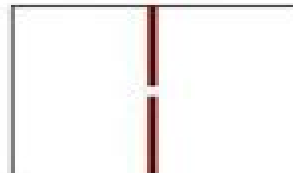
Get the Gizmo ready:

- Select Barrier with 3-cm gap from the Scenario menu.
- Check that Wave strength is 1.20.
- Set the Wavelength to 6.0 cm.



The ability of waves to spread from a point such as the gap in the barrier is called **diffraction**. This ability allows waves to turn corners in ways that individual particles cannot.

1. Investigate: Click **Play**, wait for the waves to reach the right side of the tank, and click **Pause**. Sketch the waves in the diagram on the left, below. Click **Reset**, and repeat the procedure with the **Barrier with 6-cm gap** selected. (You will have to set the **Wavelength** to 6.0 cm again.) Sketch the waves in the diagram on the right.



Which diagram shows more bending of the wave as it passes through the gap? _____

2. Predict: Which wave do you think will bend more when it passes through a barrier with a 10-cm gap: A wavelength of 5.0 cm or a wavelength of 30.0 cm? _____
3. Test: Select the **Barrier with 10-cm gap**. Play simulations with wavelengths of 5.0 cm and 30.0 cm. What do you notice? _____
4. Summarize: In general, what is the relationship between diffraction and the ratio of wavelength to gap width? _____

Exploration B: Interference (when waves combine)

Get the Gizmo ready:

- Select **Single central source**. Check that the **Wavelength** is 16.0 cm.
- Set the **Wave strength** to 1.00.



1. Observe: Press **Play**. Describe the waves you see: _____

Answer Key Student Exploration Ripple Tank

United States. Army Air Forces



Answer Key Student Exploration Ripple Tank:

Carolina Science and Math Carolina Biological Supply Company, 2003 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 and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Modules , 2005

Fundamentals of Physics, A Student's Companion E-Book to Accompany Fundamentals of Physics, Enhanced Problems Version David Halliday, Robert Resnick, Jearl Walker, 2003 A text for calculus based physics courses introducing fundamental physics concepts and featuring exercises designed to help students apply conceptual understanding to quantitative problem solving with chapter puzzles checkpoints and reviews and summaries **Earth's Waters: Teacher's**

ed ,2005 *Athamor* ,2018 **Teach Now! Science** Tom Sherrington,2014-05-09 Being taught by a great teacher is one of the great privileges of life Teach Now is an exciting new series that opens up the secrets of great teachers and step by step helps trainees to build the skills and confidence they need to become first rate classroom practitioners Written by a highly skilled practitioner this practical classroom focused guide contains all the support you need to become a great science teacher Combining a grounded modern rationale for learning and teaching with highly practical training approaches the book guides you through all the different aspects of science teaching offering clear straightforward advice on classroom practice lesson planning and working in schools Teaching and learning planning assessment and behaviour management are all covered in detail with a host of carefully chosen examples used to demonstrate good practice There are also chapters on organising practical work the science curriculum key ideas that underpin science as a subject and finding the right job Throughout the book there is a wide selection of ready to use activities strategies and techniques to help you bring science alive in all three main disciplines including common experiments and demonstrations from biology physics and chemistry to engage and inspire you and your students Celebrating the whole process of engaging young people with the awe and wonder of science this book is your essential guide as you start your exciting and rewarding career as an outstanding science teacher

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