

Name: _____ Period: _____ Date due : _____ EN: _____

INTRODUCTION

SLINKY LAB

Waves occur all over the natural world. Light, sound, radiation, water ripples, etc. all occur as wave phenomena. There are two main types of waves that are found in the physical world: transverse waves, and longitudinal waves. Wave phenomena abide by the same rules regardless of the media it is transferred through - or in other words, there are not separate characteristics for light waves, or sound waves, or water ripples. Because of this we can investigate the characteristics of all waves using a coiled spring (slinky).

MEDIUM: the medium is the material that a wave is transmitted through. For example sound waves are transmitted through air, and water ripples are transmitted through water.

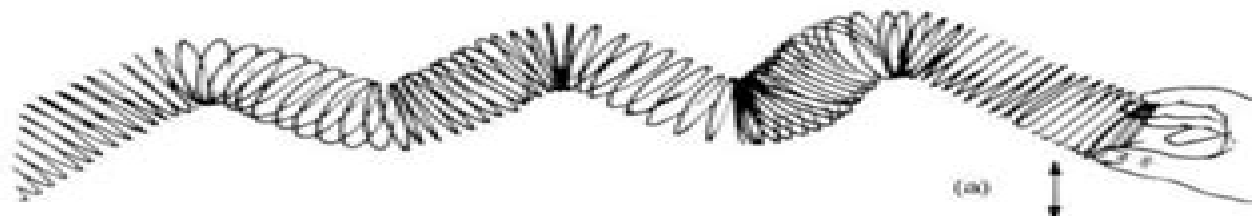
PART 1: TYPES OF WAVES

LONGITUDINAL WAVE: also known as a compression wave ... a longitudinal wave is a wave in which the vibrational displacement occurs in the same direction as the motion of the wave.



Create a longitudinal wave pulse by creating a disturbance in a direction parallel to the direction of the wave motion. Describe what happens to the medium (slinky) as the pulse travels from one end to the other. (Hint: discuss energy and material)

TRANSVERSE WAVE: a transverse wave is a wave in which the vibrational displacement occurs in a direction perpendicular to the motion of a wave.



Generate a transverse wave pulse by moving your hand quickly to either the left or the right. Describe the motion of the medium as the pulse moves through it

Wave Properties Slinky Lab Worksheet Answers

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Academy of Engineering, National
Science Resources Center of the
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Sciences, Institute of Medicine**

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Hands-on Physical Science Laurie E. Westphal, 2008 Introduce your students to the fascinating world of physical science with these creative and adventurous experiments in chemistry and physics Grades 4-8 **Waves, an Integrated Approach with Real World Applications** Sandra L. Brough-Gresh, 2001 **Phy. Lab and Pocket Lab Wk/Sheets Phy:P&P** Zitzewitz, 1998-07 **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 **An Introduction to Physics** Harvard Project Physics, 1968 Science Interactions Robert W. Avakian, 1995-07-17 Physics Briefs , 1990 The Hollywood Reporter , 1991 Waves Rumi Michael Leigh, 2023-05-24

Waves Things You Should Know Questions and Answers explains the principles of wave motion through a question and answer format The text covers frequency wavelength amplitude velocity and energy transfer with worked examples to show how these properties are applied in physics Topics include mechanical waves sound waves light waves and electromagnetic waves with attention to how they propagate and interact Exercises move from basic definitions to more advanced problems including calculations of wave speed period and phase difference The book also examines reflection refraction interference and resonance connecting theoretical concepts with problem solving practice This book will interest students physics learners and exam candidates who want to study waves and their role in science Wave Properties Advanced Physics Project for Independent Learning,Dvanced Physics Project For Independent Learning Staff,1979 **Wave Motion and Wave Properties of Light** Fazlul Huq,1990

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