

Name: \_\_\_\_\_ Period: 1 2 3 4 5 6 7 Date: \_\_\_\_\_



## Slinky Lab



### Introduction:

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 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).

**Transverse Wave:** A wave in which the vibrational displacement of the medium occurs in a direction perpendicular to the motion of a wave.

**Longitudinal Wave:** Also known as a compression wave a longitudinal wave is a wave in which the vibrational displacement of the medium occurs in the same direction as the motion of the wave.

### Transverse Wave Picture



### Longitudinal Wave Picture



**Materials Needed:** Slinky, Stopwatch, and a Meter Stick

**Procedure:** Record your observations neatly in the spaces below. **Be careful not to tangle the slinky.**

1. Stretch the slinky down the hall about 2.5 meters on the floor. You will need to have one student holding each end of the slinky. Send a wave down the slinky by disturbing it at one end by swiftly pushing it forward.

a) Describe the motion of the medium, in this case the slinky, as the wave moves through it.

b) Use the length of the slinky and a stopwatch to measure the velocity of the wave ( $V=D/T$ ). Try this several times using different methods for initiating the wave (tap it, push it, hit it, etc.). Record your results below.

|    |                            |                           |                 |
|----|----------------------------|---------------------------|-----------------|
| A. | Type of Disturbance: _____ | Time to travel 2.5m _____ | Velocity: _____ |
| B. | Type of Disturbance: _____ | Time to travel 2.5m _____ | Velocity: _____ |
| C. | Type of Disturbance: _____ | Time to travel 2.5m _____ | Velocity: _____ |
| D. | Type of Disturbance: _____ | Time to travel 2.5m _____ | Velocity: _____ |
| E. | Type of Disturbance: _____ | Time to travel 2.5m _____ | Velocity: _____ |
| F. | Type of Disturbance: _____ | Time to travel 2.5m _____ | Velocity: _____ |

c) What does this tell you about the effect of disturbance type (longitudinal or transverse) on the speed of the wave along the slinky?

## Slinky Lab Answers

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

## **Slinky Lab Answers:**

**A Den of Inquiry** Tim Erickson, Bryan Cooley, 2007 Mechanics labs for introductory physics that focus on mathematical models and data analysis Includes instructions for using Logger Pro or Fathom software to do data analysis A CD ROM contains instructional video sample data and template files

**Science Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual

*Hey, Bub!* Steve Prater, 2016-10-27 Hey Bub was the familiar greeting Tom Prater used throughout his life He was born with Down syndrome in 1949 and in spite of his disabilities became a beloved and integral part of his family and community While his speech was limited to phrases of just a few syllables he found other ways to communicate and won the hearts of everyone who met him Despite being beset by health concerns and institutional systems that were far from ideal he found resilience and joy This is the story of two brothers their childhood adventures and their lifelong bond In it his brother Steve bunk mate and partner in crime reflects on their time together and the many lessons he s still learning from his older brother When the world feels overwhelming or complex we all seek answers from those who seem to have it all figured out Tom leaves ample clues to happiness through his parables involving marshmallows swing sets bowling and dancing

*Core Science Lab Manual with Practical Skills for Class IX* V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-01 Goyal Brothers Prakashan

*Im Earth Lab Explore Earth Sci* Claudia Owen, Diane Pirie, 2001-08

**LK-Science-HB-09-R** R Rangarajan, Neena Sinha, Rajesh Kumar, LK Science HB 09 R

**Handbook of Research on K-12 Blended and Virtual Learning Through the i<sup>2</sup>Flex Classroom Model**

Avgerinou, Maria D., Pelonis, Peggy, 2021-03-05 Teaching models that focus on blended and virtual learning have become important during the past year and have become integral for the continuance of learning The i Flex classroom model a variation of blended learning allows non interactive teaching activities to take place without teachers direct involvement freeing up time for more meaningful teacher student and student student interactions There is evidence that i Flex leads to increased student engagement and motivation as well as better exploitation of teachers and classroom time leading to the development of higher order cognitive skills as well as study skills for students future needs related to citizenship college and careers The Handbook of Research on K 12 Blended and Virtual Learning Through the i Flex Classroom Model focuses not only on how to design deliver and evaluate courses but also on how to assess teacher performance in a blended i2Flex way at the K12 level The book will discuss the implementation of the i Flex isquareFlex a non traditional learning methodology which integrates internet based delivery of content and instruction with faculty guided student independent learning in combination with face to face classroom instruction aiming at developing higher order cognitive skills within a flexible learning design framework While highlighting new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers this publication is an essential reference source for pre service and in service teachers researchers administrators educational technology developers and students interested in how the i2Flex

model was implemented in classrooms and the effects of this learning model      *Answers to the World's Greatest Questions* Bjorn Carey,2017-12-15 Asking questions is an integral part of learning and engaging with the world Complex questions require answers from experts and this book is packed with fascinating trusted information about topics ranging from outer space to the human body Organized by topic in a question and answer format the book is sure to capture readers imaginations while providing background knowledge about how our universe works      **EAS 220 Lab Book** ,2007

*Science Lab Manual Class IX | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.* Mr. Gopi Chandra Gupta,Mr. Shivam Tiwari,2022-08-01 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted top the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Mathematics and Science means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable      **The Lab Rat Chronicles** Kelly Lambert,2011-06-07 Discover What Rodents Know About the Good Life What can the common laboratory rat tell us about being human According to behavioral neuroscientist Kelly Lambert a whole lot Her twenty five year career conducting experiments that involve rats has led her to a surprising conclusion Through their adaptive strategies and good habits these unassuming little animals can teach us some essential lessons about how we as humans can lead successful lives From emotional resilience and a strong work ethic to effective parenting and staying healthy the lab rat is an unlikely but powerful role model for us all This is a surprising and engaging guided tour into the sophisticated mental emotional and behavioral worlds of these frequently maligned and often misunderstood little creatures      **Phy. Lab and Pocket Lab Wk/Sheets Phy:P&P** Zitzewitz,1998-07      **Geology From Experience** E. Kirsten Peters,Larry E.

Davis,2000-11-05 Moving away from the observation and vocabulary focus of traditional physical geology lab manuals Peters and Davis s *Geology from Experience* offers experiments that favor hands on involvement and scientific problem solving Students are asked to use geological tools and techniques analyze data from observation experiment and research solve simple equations and make assessments and relevant predictions This approach class tested with great success by the authors gives students a real taste of the scientific experience by revealing the ways geologists actually do their work

*Science Worksheets Don't Grow Dendrites* Marcia L. Tate,Warren G. Phillips,2010-10-20 Best selling author Marcia L Tate outlines 20 proven brain compatible strategies rationales from experts to support their effectiveness and more than 250 activities in this practical resource      **Merrill Chemistry** Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998

**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

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**Growing a Farmer: How I Learned to Live Off the Land** Kurt Timmermeister, 2012-01-30 Former urbanite Timmermeister offers an intimate look at the life and livelihood of a modern day farmer

*The Science Teacher's Toolbox* Tara C. Dale, Mandi S. White, 2020-04-28 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative research based resource providing teachers with

instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher s Toolbox is a classroom tested resource offering hundreds of accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher s Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals **Princeton Alumni Weekly** ,2002

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