

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?

Answers To Slinky Lab

Claudia Owen, Diane Pirie



Answers To Slinky Lab:

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 **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 **Handbook of Research on K-12 Blended and Virtual Learning Through the i2Flex 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 **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 LK-Science-HB-09-R R Rangarajan, Neena Sinha, Rajesh Kumar, LK Science HB 09 R

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Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Answers To Slinky Lab**

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