

## Slinky Wave Lab

### Background

A wave can be described as an energy disturbance that travels through a medium from one location to another. Waves, simply put, are **energy moving** from one place to another. As the wave moves through the **medium** (water, slinky, air), energy is being passed from one particle to the next. Waves occur around us every day. Some common places we experience waves are in sound, light, water, and earthquakes.



In addition to being a great toy, the Slinky is an excellent device for creating and studying waves. A slinky can easily demonstrate the two basic types of waves, longitudinal and transverse. In a **longitudinal wave** the particles move parallel to the direction the wave is moving. In a **transverse wave** the particles move at right angles to the direction of wave travel.



There are three basic characteristics used to describe waves.

1. **Frequency** – The number of waves produced in a given time period. This is usually measured in waves per second called Hertz (Hz).
2. **Wavelength** – The length of a wave. This can be measured easily from crest to crest or from trough to trough.
3. **Amplitude** – The height or depth of a wave. The amount of energy carried by a wave is related to amplitude. A high energy wave is characterized by high amplitude; a low energy wave by low amplitude.



# Slinky Lab Physics Answers

**J Rink**



## **Slinky Lab Physics Answers:**

**Phy. Lab and Pocket Lab Wk/Sheets Phy:P&P** Zitzewitz,1998-07     *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     **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

**Proof of God** Donna Maskell,2013-05 Lisa works for Dr Jane Kendall a research scientist at a small college After Lisa credits God for helping her win a series of coin toss bets with Mike Dr Kendall s grad student the scientist asks Lisa to be part of a series of experiments to definitively prove the existence of God All involved expect it to lead to nothing but Lisa passes every test perfectly always getting the toss right Now the scientists have to explain the results If there is no God then how did Lisa do it And if there is a God then what does that mean for each of them     **An Introduction to Physics** Harvard

Project Physics,1968     **Comprehensive Teacher Induction** E.D. Britton,L. Paine,S. Raizen,2003-05-31 Based on a three year study the authors describe how comprehensive teacher induction systems can both provide teacher support and promote learning more about how to teach This book calls for re thinking what teacher induction is about whom it should serve what the curriculum of induction should be and the policies programs and practices needed to deliver it     *Current Index to Journals in Education* ,1996-04     **The Journal of the Iowa Academy of Science** ,2000     **Physics Lab - II** Mr.

Rohit Manglik,2024-07-11 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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data

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