

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 Wave Lab Answer Sheet Answers

Tim Erickson, Bryan Cooley



Slinky Wave Lab Answer Sheet Answers:

Science Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual *The Science Teacher's Toolbox* Tara C. Dale, Mandi S. White, 2020-04-09 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 **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 **Spotlight Science** Lawrie Ryan, Keith Johnson, 2004 This Framework Edition Teacher Support Pack offers support and guidance Merrill Earth Science Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995 **Science: Discovery and progress** Ira Cleveland Davis, 1965 *ENC Focus* ,2000 Mathematics & Science in the Real World ,2000 **Physics Briefs** ,1993 *The Physical Sciences, Laboratory Workbook* Robert M. Hazen, James Trefil, 1996-04-06 Science is central to daily life As consumers we are besieged by new products and processes not to mention a bewildering variety of warnings about health and safety As taxpayers we must vote on issues that directly affect our communities energy taxes recycling proposals and more A firm grasp of the principles and methods of science will help you make life s important decisions in a more informed way Middle School Science & Technology ,1994 **INIS Atomindex** ,1988 ENC Focus a Magazine for Classroom Innovators ,2000 **Current Index to Journals in Education** ,1996

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