



Waves

Answer Key

Vocabulary: amplitude, compression, crest, frequency, linear mass density, longitudinal wave, medium, period, power, rarefaction, transverse wave, trough, wave, wavelength, wave speed

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. A buoy is anchored to the ocean floor. A large wave approaches the buoy. How will the buoy move as the wave goes by?

Answers will vary. [The buoy will move up and down and back and forth, tracing a circular motion, as the wave passes.]



2. The two images show side views of ocean waves. How are the two sets of waves different?

Sample answer: The waves in the left image are closer together and higher than the waves in the right image. The tops (crests) of the waves on the left are pointier.



Gizmo Warm-up

Ocean swells are an example of **waves**. In the Waves Gizmo, you will observe wave motion on a model of a spring. The hand can move the spring up and down or back and forth.



To begin, check that the **Type of wave** is **Transverse**, **Amplitude** is 20.0 cm, **Frequency** is 0.75 Hz, **Tension** is 3.0 N, and **Density** is 1.0 kg/m. (Note: In this Gizmo, "density" refers to the **linear mass density**, or mass per unit length. It is measured in units of kilograms per meter.)

1. Click **Play** (▶). How would you describe the motion of a **transverse wave**? *The coils of the spring model move up and down as the wave goes from left to right.*

Click **Pause** (⏸). Notice the **crests** (high points) and **troughs** (low points) of the wave.

2. Click **Reset** (↺). Choose the **Longitudinal** wave and increase the **Amplitude** to 20.0 cm. Click **Play**. How would you describe the motion of a **longitudinal wave**?

The coils of the spring model move back and forth as the wave goes from left to right.

Click **Pause**. Notice the **compressions** in the wave where the coils of the spring model are close together and the **rarefactions** where the coils are spread apart.



Gizmo Wave Warm Up Answers

K L Stockton

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Wave Warm Up Answers:

Greenhouse Gardener's Companion Shane Smith, 2000 The director of Cheyenne Botanic Gardens and author of The Bountiful Solar Greenhouse has produced a practical comprehensive guide to making the most of any greenhouse or garden room Addressing almost every aspect except the actual construction Smith covers the greenhouse environment light humidity temperature interior design plant placement fans drainage individual plants and their propagation pollination growth and scheduling for flower or fruit production There are chapters on problems diseases and insects and lists of associations mail order suppliers and sun averages during the year across the country As a Wyoming gardener he puts a good deal of emphasis on using the greenhouse in summer as well as in winter but this is a useful practical guide for readers in most of the continental United States

Dr. Dobb's Journal, 2003 *Suspect* Scott Turow, 2022-09-27 The 1 New York Times bestselling author of Presumed Innocent and The Last Trial returns with a riveting legal thriller in which a reckless private detective is embroiled in a fraught police scandal For as long as Lucia Gomez has been the police chief in the city of Highland Isle near Kindle County she has known that any woman in law enforcement must walk a precarious line between authority and camaraderie to gain respect She has maintained a spotless reputation until now Three male police officers have accused her of soliciting sex in exchange for promotions to higher ranks With few people left who she can trust Chief Gomez turns to an old friend Rik Dudek to act as her attorney in the federal grand jury investigation insisting to Rik that the accusations against her are part of an ugly smear campaign designed to destroy her career and empower her enemies both outside the police force and within Clarice Pinky Granum spent most of her youth experimenting with an impressive array of drugs and failing out of various professions including the police academy Pinky knows that in the eyes of most people she is nothing but a screwup but she doesn't trust most people's opinions anyway Moreover she finally has a respectable enough job as a licensed P I working for Rik on his roster of mostly minor cases like workman's comp DUIs and bar fights Rik's shabby office and even shabbier cases are a far cry from the kinds of high profile criminal matters Pinky became familiar with in the law office of her grandfather Sandy Stern But Rik and Pinky feel that Chief Gomez's case which has attracted national attention is their chance to break into the legal big leagues Guided by her gut instinct and razor sharp investigative skills Pinky dives headfirst into a twisted scandal that will draw her into the deepest recesses of the city's criminal networks as well as the human mind But she will need every scrap of tenacity and courage to unravel the dark secrets those closest to her are determined to keep hidden

New Scientist, 2007 *Awakened by You* K L Stockton, 2014-08-11 Skye Darcy is a highly successful workaholic artist a superstar of the fantasy and science fiction genre she works in Disowned and kicked out by her wealthy family at the age of eighteen she has now at the age of twenty six built a multimillion dollar fortune from nothing by using her natural business aptitude and instinct Preferring to concentrate on her work for years she shied away from intimate relationships until she met Clayton Blake The attraction is instant as he awakens her inner sex goddess and

sense of sexual adventure but at the same time he makes her face a horror from her past Can she overcome her innermost fears to explore and enjoy the sexual pleasures he promises to take her on Clayton Blake good looking thirty years young free single and billionaire He thought he had it all a loving supportive family an abundance of easily available women and an extremely successful business That was until Skye Darcy walked into his life and everything in his world shifted His burning lust and passion for her awakens and ignites emotions and pleasure like he s never experienced before however it also brings out a horror from her past he is determined to lay to rest Will his love be strong enough to help Skye conquer her nightmare memories and fears Awakened by You follows Skye and Clayton s journey of self discovery their developing relationship and sexual exploits Come along for the ride and experience it with them Snow Country ,1994-12 In the 87 issues of Snow Country published between 1988 and 1999 the reader can find the defining coverage of mountain resorts ski technique and equipment racing cross country touring and the growing sport of snowboarding during a period of radical change The award winning magazine of mountain sports and living tracks the environmental impact of ski area development and people moving to the mountains to work and live **New Scientist and Science Journal** ,2006 **Hi Fi/stereo Review** ,1978

Northwest Sailboard ,1990 Los Angeles Magazine ,2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian *Fantastic* ,1961 *Stanford Exploration Project* ,1987 **A Change of Heart** James H. Chapin,1994 *The Listener* ,1985-07 **Billboard** ,1955-02-19 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends *Musicworks* ,2002 *Fortune* Henry Robinson Luce,2001-03

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