

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 Waves Answers

Yan Bai

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

Gizmo Waves Answers:

Frank Einstein and the Bio-Action Gizmo (Frank Einstein Series #5) Jon Scieszka, 2017-10-17 In the fifth book of the New York Times bestselling Frank Einstein series Frank Einstein kid genius scientist and inventor and his best friend Watson pair up with Klink a self assembled artificial intelligence entity and Klank a mostly self assembled and artificial almost intelligence entity to compete with T Edison their classmate and archrival This time they re studying the science and mysteries of our very own home planet Earth All New, All Different? Allan W. Austin, Patrick L. Hamilton, 2019-11-05 Taking a multifaceted approach to attitudes toward race through popular culture and the American superhero All New All Different explores a topic that until now has only received more discrete examination Considering Marvel DC and lesser known texts and heroes this illuminating work charts eighty years of evolution in the portrayal of race in comics as well as in film and on television Beginning with World War II the authors trace the vexed depictions in early superhero stories considering both Asian villains and nonwhite sidekicks While the emergence of Black Panther Black Lightning Luke Cage Storm and other heroes in the 1960s and 1970s reflected a cultural revolution the book reveals how nonwhite superheroes nonetheless remained grounded in outdated assumptions Multiculturalism encouraged further diversity with 1980s superteams the minority run company Milestone s new characters in the 1990s and the arrival of Ms Marvel a Pakistani American heroine and a new Latinx Spider Man in the 2000s Concluding with contemporary efforts to make both a profit and a positive impact on society All New All Different enriches our understanding of the complex issues of racial representation in American popular culture **The Harbinger: Patchwork** Neerja Gaurie, 22-10-13 A solitary woman milieu 21st century India an educated trendy modern and apparently free spirited one at that describes her passage through life by jottings that reflect her moods travails and happy moments intricately woven that emerge as patchwork A story unravels with a day to day account of life managed and lived while she goes through a tumultuous divorce proceeding The setting is in sylvan and pristine forested and mountainous surroundings a solitary figure leading a soulful solitary life This could be the story of any woman anywhere Fractured Society Hugh Roberts, 2024-06-18 Scanning across half a century Fractured Society Causes Effects and Resolutions looks at how human relations have been coming apart psychologically summarised by the widespread failure to understand each other Young people seem more stressed than others while politics are now more polarised than for a long time past Wherever you look at gender relations the working environment responses to traumatic events and how people relate to their sense of place whether positively or negatively there are profound tensions around how we interact with each other But maybe all is not lost Hugh Roberts examines how every situation can look different in context applying lessons learned from many years working internationally across diverse cultures and value systems He proposes a fresh approach to relationship building based on empathy and understanding of individual agendas COVID 19 brought communities a renewed sense of collective purpose with digital communication proving vital in sustaining meaningful

connections However the Internet needs to take its rightful place in rather than take over the slow re building of mutual trust Fractured Society delivers an upbeat message advocating a better connected world encouraging us to adopt a positive empathetic approach to one another replacing the fear and mistrust of forming new acquaintances The Story of the Century Karl Eysenbach,2009 Clem Reader is a reporter on the celebrity beat who accidentally stumbles onto the story of the century At the same time he loses himself in a passionate affair with Saroyan Pashogi one of the world s most famous and beautiful movie stars As the lovers fall under government surveillance Saroyan finds additional evidence and the government begins action to permanently silence them along with anyone else who knows the secret Will the lovers survive Will the world survive It s a tale with extraterrestrials drug running and political corruption that will keep you going until the final chapter

New Scientist and Science Journal ,2006 New Scientist ,2007 *Weekly World News* ,2001-11-27 Rooted in the creative success of over 30 years of supermarket tabloid publishing the Weekly World News has been the world s only reliable news source since 1979 The online hub www.weeklyworldnews.com is a leading entertainment news site **Not for Small Minds** Aaron Rosenberg,2018-10-11 MR3971XJKA also known as Mary is the Grays scout liaison diplomat and translator Along with her boyfriend DuckBob and their friends Tall and Ned she has saved the universe from invasion by beings from another reality Twice DuckBob loves her and trusts her without question Still he doesn t actually know anything about her past Which is why when Mary asks him to accompany her to her college reunion he jumps at the chance That tense reunion is interrupted by a distress call from the Grays themselves It seems the invaders are back and this time they re determined to finish the job Mary and DuckBob quickly find themselves overwhelmed To pull this one off they re going to need help A lot of it Can they get their disparate allies to work together though Or will rivalries dissension and distrust do the invaders work for them once and for all The Celluloid Couch Leslie Y. Rabkin,1998-10 In this unique filmography Leslie Rabkin delves deeply into film s unconscious producing a valuable reference text concerned with the history of film and its representation of therapy and mental illness The Celluloid Couch is arranged by decade with the exception of the earliest period The Silent Era from the very beginnings of film to 1920 Each period contains a thoughtful introduction that highlights important films and discusses the intersection of film with history and psychology Rabkin s overview lays bare patterns in film s representation of mental illness and therapy and inquires how contemporary stereotypes of psychiatric patients and institutions have been formed from film Textual examples in the introduction are drawn from magazines and newspapers as well as numerous readings of particularly important films refracted through the lens of a psychologist The alphabetical entries are compact and inclusive containing main titles as well as foreign listings and detailed information such as cast length director producer and a brief synopsis of the film s plot and discussion of the forms of therapy depicted and utilized in the film An efficient resource for the student of film psychology or mass culture The Celluloid Couch makes the huge number of popular films that portray mental illness and therapy accessible

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