



## 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.*



# Answer Key Student Exploration Waves

**Sabine Zange**

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**Science II Essential Interactions** ,2000-10      **Handbook of Research on Educational Communications and Technology** J. Michael Spector,M. David Merrill,Jan Elen,M. J. Bishop,2013-07-03 The 4th edition of the Handbook of Research on Educational Communications and Technology expands upon the previous 3 versions providing a comprehensive update on research pertaining to new and emerging educational technologies Chapters that are no longer pertinent have been eliminated in this edition with most chapters being completely rewritten expanded and updated Additionally new chapters pertaining to research methodologies in educational technology have been added due to expressed reader interest Each chapter now contains an extensive literature review documenting and explaining the most recent outstanding research including major findings and methodologies employed The Handbook authors continue to be international leaders in their respective fields the list is cross disciplinary by design and great effort was taken to invite authors outside of the traditional instructional design and technology community      **Earth's Waters: Teacher's ed** ,2005      *ENC Focus* ,2001

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*Ocean beaches and life in the surf zone* James A. Kolb,1996      Prentice Hall Science Explorer: Teacher's ed ,2005

**Fundamentals of Physics, A Student's Companion E-Book to Accompany Fundamentals of Physics, Enhanced Problems Version** David Halliday,Robert Resnick,Jearl Walker,2003 A text for calculus based physics courses introducing fundamental physics concepts and featuring exercises designed to help students apply conceptual understanding to quantitative problem solving with chapter puzzlers checkpoints and reviews and summaries      **Bridging the Gap** ,1993  
Recognizing the difficult time most youths face in finding a good job after high school graduation the Austin Texas Independent School District developed strategies to improve the transition A high level of collaborative activity was already underway in Austin between the school district and the community but most programs had been started without linkage to each other or to the curriculum or instructional practices Recommendations were made to design a system that would do the following 1 improve career foundations enhanced basic skills thinking skills personal traits and career awareness and exploration for all youth to develop learning and training records and career passports to document and signal career foundations achievements and experience and 2 develop learning and training paths from high school into career opportunities in the workplace Key principles underlying this strategy are to improve communication between industry and school personnel and to link work opportunities to effort and achievement in school thereby strengthening incentives for students to learn A proposal was made to implement the program with one school feeder school system in the district as a model Contains 189 references KC      *Focus on Earth Science* ,2001      *Sound and Light* Michael J. Padilla,Ioannis Miaoulis,Martha Cyr,Jay M. Pasachoff,2002      **The Software Encyclopedia 2001** ,2001      Addison-Wesley Science

Insights ,1996    *Merrill Earth Science* Ralph M. Feather,Susan Leach Snyder,Dale T. Hesser,1995    **Energy** ,2013  
Science Scope ,2002    2003 Physics Education Research Conference Jeffrey Marx,Scott Franklin,Karen  
Cummings,2004-09-09 The 2003 Physics Education Research Conference Proceedings contains peer reviewed and invited  
papers based on oral presentations and posters The papers span topics including instructional assessment data analysis  
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ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. "Material Flow Analysis" or "Substance Flow Analysis." Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a

single mass balance test every. Practice Test - TNCC 7th Edition What is the key to a high performing trauma team? a. Individual goals. Rationale: Effective teams are group driven with a shared mental model (p. 5). TNCC 7th Edition: Practice Test Practice Test. TNCC 7th Edition: Practice Test. 1. What is the key to a high performing trauma team? a. Individual goals b. Use of the SBAR tool c ... TNCC 7th Ed. Practice Test Flashcards Study with Quizlet and memorize flashcards containing terms like Consistent communication, MOI & energy transfer, Uncontrolled hemorrhage and more. Practice Test TNCC 7th Edition View Test prep - Practice Test - TNCC.pdf from NURS 6001 at Walden University. Practice Test TNCC 7th Edition: Practice Test 1. TNCC 7th Edition: Practice Test Latest Update 2023 Jun 1, 2023 — Stuvia customers have reviewed more than 700,000 summaries. This how you know that you are buying the best documents. Quick and easy check-out. TNCC Trauma Nursing Core Course 7th Edition ENA Study with Quizlet and memorize flashcards containing terms like Components of SBAR and its purpose, Components of DESC and its purpose, Components of CUS ... Walden University NURS 6001 TNCC 7th Edition with ... Oct 21, 2021 — TNCC 7th Edition: Practice Test Annotated Answer Key 1. What is the key to a high performing trauma team? a. TNCC Written Exam - Exams with their 100% correct answers Exams with their 100% correct answers tncc written exam tncc notes for written exam, tncc prep, tncc test prepa 415 questions with correct answers what are ... Trauma Nursing Core Course Provider Manual (TNCC) 7th ... TNCC Provider Manual 8th Edition. ENA ; TNCC Student Workbook and Study Guide Eighth Edition ; Trauma Certified Registered Nurse Q&A Flashcards. TNCC Trauma Nursing Core Course 7th Edition ENA Exam ... Jul 4, 2023 — TNCC Trauma Nursing Core Course 7th Edition ENA Exam Question With 100% All Correct Answers Components of SBAR and its purpose - ANSWER S: ... Bobcat t300 Service Manual PDF 20-3]. Removing The Lift Arm Support Device. The operator must be in the operator's seat, with the seat. T300 Loader Service Manual Paper Copy - Bobcat Parts Genuine Bobcat T300 Loader Service Manual, 6987045ENUS provides the owner or operator with detailed service information including adjustments, diagnosis, ... Bobcat T300 Workshop Repair Manual Buy Bobcat T300 Workshop Repair Manual: Automotive - Amazon.com □ FREE DELIVERY possible on eligible purchases. Bobcat T300 Compact Track Loader Service Manual PDF PDF service manual provides special instructions for repair and maintenance, safety maintenance information for Bobcat Compact Track Loader T300. Bobcat T300 Compact Track Loader Service Repair ... Bobcat T300 Compact Track Loader Service Repair Manual DOWNLOAD ... Service Repair Manual for the Bobcat T300 Compact Track Loader ever compiled by mankind. Bobcat T300 Compact Track Loader Service manual 2-11 ... Dec 21, 2019 — Aug 2, 2019 - This Bobcat T300 Compact Track Loader Service manual 2-11 PDF Download provides detailed illustrations, instructions, ... Bobcat T300 Workshop Repair Manual Description. Bobcat T300 Compact Track Loader Repair Manual, Service Manual, Workshop Manual Parts nr: 6986683 (3-09) 2009 revision. Beware of sellers ... Bobcat T300 Compact Track Loader Service Repair ... Bobcat T300 Compact Track Loader Service Repair Manual + Operation & Maintenance Manual + Wiring/Hydraulic/Hydrostatic Schematic - PDF Download. Bobcat T300 Track Loader

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