

## REVIEW FOR WAVES QUIZ

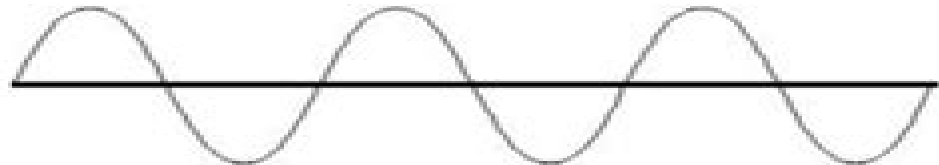
Name: \_\_\_\_\_ Quiz Date: \_\_\_\_\_

This quiz will cover information from the first part of our unit on waves. It will consist of some multiple choice, fill-in-the-blank, drawing, and short answer questions. You should review your DQs, labs, waves article, simulation, reading notes, and concepts from activities we've done. Be able to hit the following targets:

- *I can diagram and describe the anatomy and characteristics of mechanical, electromagnetic, transverse, and longitudinal waves.*
- *I can describe and diagram how to change the wavelength, amplitude, and frequency of a wave.*
- *I can explain and calculate how the energy of a wave is related to the amplitude and wave speed.*

1. Waves that do not require a medium to transfer energy are called \_\_\_\_\_ waves.  
A. mechanical                      C. transverse  
B. electromagnetic              D. longitudinal
2. Waves whose particles vibrate in the same direction the wave travels are called \_\_\_\_\_ waves.  
A. mechanical                      C. transverse  
B. electromagnetic              D. longitudinal
3. The number of waves produced in a given amount of time is better known as:  
A. amplitude                      C. frequency  
B. reflection                      D. wavelength
4. The energy of a wave is directly calculated using its \_\_\_\_\_.  
A. amplitude                      C. frequency  
B. wavelength                      D. Hertz
5. An example of a medium is a:  
A. solid                              C. gas  
B. liquid                              D. all of the above
6. Clearly label the diagram of the transverse wave with the following terms: **crest**, **trough**, **wavelength**, and **amplitude**.

7. If the wave shown here is being created by moving a slinky back and forth along the ground, describe what you would have to do to increase its frequency?



# Mechanical Waves Review Matching Key

**The Princeton Review**



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Princeton Review AP Physics 1 Prep 2021 The Princeton Review, 2020-08 2 full length practice tests Cover **NRL Review**, 2006 **Stereo Review**, 1991 Engaging Teachers in Classroom Walkthroughs Donald S. Kachur, Judith A. Stout, Claudia L. Edwards, 2013 Engaging Teachers in Classroom Walkthroughs is a practical guide to planning and implementing brief but focused classroom observations that involves teachers in every step of the process Drawing from their study of 40 schools in the United States and Canada the authors show how administrators and teacher leaders moved teachers from resisting to embracing the practice Readers will learn how to Foster a school culture that supports

walkthroughs Implement the components of successful walkthroughs such as focus and look for data collection methods and meaningful follow up strategies Get all teachers involved and actively participating Evaluate the walkthrough process and measure its effectiveness Use walkthroughs to support professional development related to the Common Core State Standards This book demonstrates that when teachers learn from one another in a cycle of continuous professional growth through observation shared inquiry dialogue and follow up they develop a sense of collegiality and a common mission By opening their doors to their peers they also contribute to broader school improvement efforts that positively affect teaching and learning throughout the school

Examination Review for Ultrasound: Sonographic Principles & Instrumentation Traci B Fox, Stephen M Penny, 2024-09-05 Prepare for and excel on the Sonography Principles and Instrumentation SPI certification examination offered by the ARDMS Traci B Fox and Steven M Penny's Examination Review for Ultrasound Sonographic Principles Instrumentation 3rd Edition focuses only on the content you'll encounter on the exam saving you valuable study time Now in full color throughout it uses a concise narrative approach aligns with the SPI revised content outline and format and features an online exam simulator with hundreds of registry style questions

**Conquer Medical Coding 2018** Jean Juek, Stacey Mosay, Daphne Neris, 2017-12-25 Take a real world approach to coding that prepares you for the AAPC or AHIMA certification exams and for professional practice in any health care setting The book is also a handy resource you can turn to throughout your career Unique decision trees show you how to logically assign a code It's the only text that breaks down the decision making process into a visual and repeatable process You'll learn exactly how to select the correct ICD 10 CPT and HCPCS codes Each section parallels the Official Coding Guidelines with a special emphasis on commonly used codes A wealth of learning tools and tips along with critical thinking exercises and real life case studies provide the practice you need to master coding Brief reviews of A P and pathophysiology put the codes into perfect context

Electromagnetic Acoustic Transducers Masahiko Hirao, Hirotsugu Ogi, 2016-10-25 This second edition provides comprehensive information on electromagnetic acoustic transducers EMATs from the theory and physical principles of EMATs to the construction of systems and their applications to scientific and industrial ultrasonic measurements on materials The original version has been complemented with selected ideas on ultrasonic measurement that have emerged since the first edition was released The book is divided into four parts PART I offers a self contained description of the basic elements of coupling mechanisms along with the practical designing of EMATs for various purposes Several implementations to compensate for EMATs low transfer efficiency are provided along with useful tips on how to make an EMAT PART II describes the principle of electromagnetic acoustic resonance EMAR which makes the most of EMATs contactless nature and is the most successful amplification mechanism for precise measurements of velocity and attenuation PART III applies EMAR to studying physical acoustics New measurements have emerged with regard to four major subjects in situ monitoring of dislocation behavior determination of anisotropic elastic constants pointwise elasticity mapping RUM and acoustic

nonlinearity evolution PART IV deals with a variety of individual issues encountered in industrial applications for which the EMATs are believed to be the best solutions This is proven by a number of field applications      **Anesthesiology Keywords**  
**Review** Raj K. Modak,2008 This review book is based on the keyword list distributed to residency program directors each year Each of the 316 entries begins with a keyword followed by a list of key points and a one or two page discussion written by a resident and reviewed by Yale University faculty Entries cover all areas of anesthesiology including pediatric anesthesia For easy reference the book is indexed in three ways alphabetically by rotation or organ system and according to the Boards organization A companion Website offers the fully searchable online text [www keywordsreview com](http://www.keywordsreview.com)

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