

Waves Study Guide Answer Key

1. What is the top of a wave called? **Crest**
2. What is the bottom of a wave called? **Trough**
3. What is frequency? **How many waves go past a point in one second; unit of measurement is hertz (Hz).**
4. If a wave is traveling at 60 cm/second and has a wavelength of 15 cm, what is the frequency?
 G $v = 60 \text{ cm/s}$ $\lambda = 15 \text{ cm}$ E $f = v / \lambda$ S $f = 4 \text{ Hz}$
 U $f = ?$ S $f = (60 \text{ cm/s}) / 15 \text{ cm}$
5. What does amplitude measure? **How far the medium moves from rest position (where it is when not moving).**
6. On the diagram below, indicate the distance that represents the wavelength of the wave and indicate the distance that represents the amplitude.



7. How many complete waves are there in the diagram above? Is it transverse or longitudinal?
3, transverse
8. What is the difference between a transverse wave and a longitudinal wave? **Transverse waves: Waves in which the medium moves at right angles (perpendicular) to the direction of the wave (looks like a jump rope). Longitudinal waves: Waves in which the medium moves back and forth in the same direction as the wave (looks like a slinky).**
9. Are sound waves transverse waves or longitudinal waves? Why? **Longitudinal waves because they move back and forth in the same direction as the wave.**
10. Why can't you calculate the frequency of the wave in the diagram? What information is missing? **Missing wave speed or the period. $f = v / \lambda$ or $f = 1/T$**
11. What is the wavelength of a sound wave with a frequency of 50 Hz? (Speed of sound is 342 m/s)
 G $v = 342 \text{ m/s}$ $f = 50 \text{ Hz}$ E $\lambda = v / f$ S $\lambda = 6.84 \text{ m}$
 U $\lambda = ?$ S $\lambda = (342 \text{ m/s}) / 50 \text{ Hz}$
12. A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel?
 G $\lambda = 10.5 \text{ m}$ $f = 620 \text{ Hz}$ E $v = f * \lambda$ S $v = 6510 \text{ m/s}$
 U $v = ?$ S $v = 10.5 \text{ m} * 620 \text{ Hz}$
13. Determine the frequency of a microwave 6.0 cm in length. (A microwave is an electromagnetic wave. It travels through space at a speed of $3.0 \times 10^8 \text{ m/s}$)
 G $\lambda = 6 \text{ cm} \rightarrow 0.06 \text{ m}$ E $f = v / \lambda$ S $f = 5 \times 10^9 \text{ Hz}$
 $v = 3.0 \times 10^8 \text{ m/s}$
 U $f = ?$ S $f = (3 \times 10^8 \text{ m/s}) / 0.06 \text{ m}$
14. What is the period of the microwave in problem 13?
 G $f = 5 \times 10^9 \text{ Hz}$ U $T = ?$ E $T = 1 / f$ S $T = 1 / 5 \times 10^9 \text{ Hz}$ S $T = 0.0000000002 \text{ s}$

Unit 5 Sound Worksheet Answer Key

George Graybill



Unit 5 Sound Worksheet Answer Key:

Alfred's Music Tech 101 Brian Laakso, 2015-03-25 A Modern Music Production Course That Makes Basic Music Technology Fun A perfect approach for students with a passion for music outside of traditional programs Alfred's Music Tech 101 Teacher's Handbook correlates to Alfred's Music Tech 101 which covers the basics of music technology without heavy technical reading using plain English explanations No musical experience is required and classroom tested course material has been developed through years of student feedback Includes correlating interactive media to stream or download plus a corresponding website with teacher resources and updates No musical experience required Studies on producing music using modern techniques for college and high school students A perfect approach for students with a passion for music outside of traditional programs Cross platform approach to technology applicable to any software used for music production Great for students with musical goals outside the classroom Covers the basics of music technology without heavy technical reading using plain English explanations Simple and straightforward information reinforced with projects and assessments Classroom tested course material developed through years of student feedback Includes correlating interactive media to stream or download Corresponding website with teachers resources and updates *Hands-On - Physical Science: Light and Sound Gr. 1-5* George Graybill, 2016-10-01 This is the chapter slice Light and Sound Gr 1 5 from the full lesson plan Hands On Physical Science Get your students excited about energy and all things that move with our Hands On Physical Science resource for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Study balanced and unbalanced forces by dropping different objects to measure the effect of gravity and air resistance on them Measure the distance of lightning by watching and listening for thunder Get into groups and make models of water sound and light waves Experience static electricity first hand by getting a balloon to magically stick to a wall Describe a solid liquid and gas around your home by its properties Make a compound machine with your classmates by combining at least two simple machines Each concept is paired with hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading passages graphic organizers before you read and assessment activities are included True to Life Starter Personal Study Audio CD Stephen Slater, Simon Haines, 1998-10-26 True to Life is a five level course designed specifically for adult learners *Great Source Daily Phonics*, 1994-07-28 Spelling Richard Madden, 1983 *Guitar Expressions Teacher Edition, Vol 1*, 2006-06 Volume 1 of this 2 volume set contains 54 complete lesson plans for the first 18 units of Guitar Expressions Each lesson includes a Lesson Snapshot Instructional Overview a complete step by step lesson plan with embedded assessments The book also includes reproducible student worksheets assessments forms and student progress record CDs containing complete instruction demonstration play along and additional listening tracks Educators will be pleased to also find Bloom's Taxonomy Correlation Assessment Overviews and Core Thinking Overviews Plus interactive Guitar Guru technology embedded on the

included CD ROM included in V 2 allows students to use their computers to view animated fretboard displays of selected songs

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Daily Phonics ,1995

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worksheets assessments forms and student progress record CDs containing complete instruction demonstration play along and additional listening tracks Included are Bloom s Taxonomy Correlation Assessment Overviews and Core Thinking Overviews Plus interactive Guitar Guru technology embedded on the included CD ROM included in Teacher ed v 2 allows students to use their computers to view animated fretboard displays of selected songs *Energy Gr. 5-8* George Graybill,2007-09-01 Unlock the mysteries of energy Our resource demonstrates how energy is more than the ability to do work Learn about all the different kinds of energy Dissect mechanical energy by identifying the different points on a roller coaster as using kinetic or potential energy Find out how an object s thermal energy is calculated from its kinetic energy Understand that amplitude wavelength and frequency are all part of sound waves and use these terms to correctly label one Take a look at the electromagnetic spectrum as you see all the colors of light energy Explore other forms of potential energy from nonrenewable and renewable sources Finally measure the speed of sound in a group experiment Aligned to the Next Generation Science Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search comprehension quiz and answer key are also included ALFRED'S Group Piano FOR ADULTS E. L. Lancaster,1996 Hands-On STEAM Science Big Book Gr. 1-5 George Graybill,2016-04-15 Introduce your primary students to the great big world of Science with our Hands On Science BUNDLE for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Begin the journey with Physical Science by making a compound machine with your classmates Experience static electricity first hand by getting a balloon to magically stick to a wall Move on to Life Science by designing your own food chain while learning about producers consumers and decomposers Get a firsthand look at ecosystems by building your own terrarium Then explore Earth Space Science by tracking the movement of the Moon with your own Lunar Calendar Get into groups to make your own solar cell windmill or water wheel Each concept is paired with reproducible hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading passages graphic organizers before you read and assessment activities are included Hands-On STEAM - Physical Science Gr. 1-5 George Graybill,2016-03-30 Get your students excited about energy and all things that move with our Hands On Physical Science resource for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Study balanced and unbalanced forces by dropping different objects to measure the effect of gravity and air resistance on them Measure the distance of lightning by watching and listening for thunder Get into groups and make models of water sound and light waves Experience static electricity first hand by getting a balloon to magically stick to a wall Describe a solid liquid and gas around your home by its properties Make a compound machine with your classmates by combining at least two simple machines Each concept is paired with reproducible hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading

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 George Graybill,2013-10-01 This is the chapter slice Sound Energy and Waves from the full lesson plan Energy Unlock the
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