

1-D Waves, Worksheet 5

Key

1. The illustration below shows a series of transverse waves. Label each part in the space provided.

- crest
- wavelength
- amplitude
- trough
- amplitude
- wavelength
- equilibrium position



Fill in the blanks:

- Waves **do** transfer energy from one place to another, they **do not** transfer matter.
- The distance from one crest (or trough) to the next is the wavelength.
- The highest point on a transverse wave is the crest while the lowest part is the trough.
- The amplitude is the height of the wave.
- Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.



1 1/2



1



2 1/2



1/2

- Which of the above has the biggest amplitude? A
- Which of the above has the shortest wavelength? C
- Which of the above has the longest wavelength? D

7. Express in words and mathematically the relationship between

- period and frequency: *The period is inversely proportional to the frequency.* $T \propto \frac{1}{f}$ or $T = \frac{1}{f}$
- wavelength and frequency: *The wavelength is inversely proportional to the frequency.*

$$\lambda \propto \frac{1}{f} \text{ or } \lambda = \frac{v}{f}$$

- wavelength and period: *The wavelength is directly proportional to the period.*

$$\lambda \propto T \text{ or } \lambda = vT$$

8. Consider a wave generator that produces 10 pulses per second. The speed of the waves is 300 cm/s:

- What is the wavelength of the waves?

$$10 \text{ pulses per second is a frequency of } 10 \text{ Hz. } \lambda = \frac{v}{f} = \frac{300 \text{ cm/s}}{10 \frac{1}{s}} = 30.0 \text{ cm}$$

- What happens to the wavelength if the frequency of pulses is increased?

Since they are inversely proportional, if the frequency is increased, the wavelength decreases.

Name Worksheet Mechanical Waves Review Answers

George Graybill



Name Worksheet Mechanical Waves Review Answers:

Energy: Mechanical Energy George Graybill,2013-10-01 This is the chapter slice Mechanical Energy from the full lesson plan Energy Unlock the mysteries of energy Energy is more than the ability to do work we present these concepts in a way that makes them more accessible to students and easier to understand The best way to understand energy is to first look at all the different kinds of energy including What Is Energy Mechanical Energy Thermal Sound Energy and Waves as well as Light Energy Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary We also explore other forms of potential energy as well as how energy moves and changes Written to grade and comprised of reading passages student activities and color mini posters our resource can be used effectively for your whole class All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy and STEM initiatives

Holt Science and Technology Holt Rinehart & Winston,2004-02 *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Lesson Plan Bklt Physics Zitzewitz,2001-09

Decoding **Name Worksheet Mechanical Waves Review Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Name Worksheet Mechanical Waves Review Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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