

Name _____

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Waves Unit 2, Worksheet 5

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

- a. Crest
 b. wavelength
 c. amplitude
 d. trough
 e. amplitude
 f. wavelength
 g. line of equilibrium



Fill in the blanks:

2. Waves carry energy from one place to another.
 3. The highest point on a transverse wave is the crest while the lowest part is the trough.
 4. The amplitude is the height of the wave.
 5. The distance from one crest to the next is the wavelength.
 6. Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.



- a. Which of the above has the biggest amplitude? Diagram A
 b. Which of the above has the shortest wavelength? C
 c. Which of the above has the longest wavelength? D

7. Express in words and mathematically the relationship between
 a. period and frequency

$$P = \frac{1}{f}$$

$$T = \frac{1}{f}$$

inversely proportional to frequency

- b. wavelength and frequency

$$v = f\lambda$$

wavelength is inversely proportional to frequency

- c. wavelength and period

~~$$v = f\lambda$$~~

$$v = \frac{\lambda}{T}$$

directly proportional

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

- a. What is the wavelength of the waves?

$$v = f\lambda \quad \lambda = \frac{v}{f} \rightarrow \frac{300}{10} = 30 \text{ cm}$$

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

if $f \uparrow$ then $\lambda \downarrow$

Physics Waves Worksheet Answers Ch 12

Mark Ellse, Chris Honeywill



Physics Waves Worksheet Answers Ch 12:

Concepts of Mathematics & Physics Parent Lesson Plan, 2013-08-01 Concepts of Mathematics and Physics Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Mathematics Numbers surround us Just try to make it through a day without using any It s impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It s amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Semester 2 Physics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia firsthand during fun and informative experiments Exploring the World of Physics is a great tool for students who want to have a deeper understanding of the important and interesting ways that physics affects our lives

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The Physics of Waves Howard Georgi, 2022

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Louis De Broglie, 2008-11 AN INTRODUCTION TO THE STUDY OF WAVE MECHANICS by LOUIS DE BROGLIE Originally

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WAVES OF QUANTISED SYSTEMS 238 INDEX 247 AN INTRODUCTION TO THE STUDY OF WAVE MECHANICS GENERAL

INTRODUCTION THE new wave mechanics has received during the past two years the firm support of experiment thanks to

the discovery of a striking phenomenon completely unknown previously viz the diffraction of electrons by crystals From one

point of view it may be said that this discovery is the exact counterpart of the older discovery of the photo electric effect

since it shows that for matter as for light we have hitherto neglected one of the aspects of physical reality The discovery of

the photo electric effect has taught us that the undulatory theory of light firmly established by Fresnel and subsequently

developed by Maxwell as the electro magnetic theory although it contains a large body of truth is nevertheless insufficient

and that it is necessary in a certain sense to turn again to the corpuscular conception of light proposed by Newton Planck in

his famous theory of black body radiation was led to assume that radiation of frequency ν is always emitted and absorbed in

equal and finite quantities in quanta of magnitude $h\nu$ h being the constant with which the name of Planck will always be

associated In order to explain the photo electric effect Einstein had only to adopt the hypothesis which is quite in conformity

with the ideas of Planck that light consists of corpuscles and that the energy of the corpuscles of light of frequency ν is $h\nu$

When a light corpuscle in its passage through matter encounters an electron at rest it can impart to it its energy $h\nu$ and the

electron thus set in 1 This introduction is the reproduction of a communication made by the author at the meeting of the

British Association for the Advancement of Science held in Glasgow in September 1928 1 2 An Introduction to the Study of Wave Mechanics motion will leave the matter with kinetic energy equal in amount to the difference between the energy $h\nu$ which it has received and the work it has had to expend to get out of the matter Now this is precisely the experimental law of the photo electric effect in the form which has been verified in succession for all the radiations from the ultra violet region to X and γ rays

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