

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 $T = 0.0000000002 \text{ s}$

Wave Behavior Study Guide Answer

Mansoor Khan MBBS, RDMS, RDCS

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

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Wave Behavior Study Guide Answer :

The Wave (novel) The Wave is a 1981 young adult novel by Todd Strasser under the pen name Morton Rhue (though it has been reprinted under Todd Strasser's real name). It is a ... The Wave - Strasser, Todd: Books The Wave is based on a true

incident that occurred in a high school history class in Palo Alto, California, in 1969. The powerful forces of group pressure ... The Wave by Todd Strasser Todd Strasser , Morton Rhue ... The Wave is based on a true incident that occurred in a high school history class in Palo Alto, California, in 1969. The Wave by Morton Rhue This book novelizes a real event in which a high school teacher re-created the Nazi movement under the title "The Wave." Students didn't believe it could happen ... The Wave Book.pdf Sa. Mr. Ross creates an experimental movement called The Wave. What begins in a single class- room quickly gathers momentum. Before the end. The Wave: Full Book Analysis Todd Strasser's The Wave follows the rapid rise of a dangerous, cult-like movement that swells through a fictional yet typical American high school. Book a Day: The Wave | the starving artist Jan 20, 2018 — Fairly quickly, it was picked up as a TV special and then that special was novelized in 1981 by Morton Rhue (who is actually Todd Strasser and ... The Wave - Morton Rhue This novel shows how powerful public opinion can be and how it can affect the life of any ordinary person. After all, this public opinion was an important ... "The Originals": The Wave by Morton Rhue (Todd Strasser) Aug 10, 2016 — The Wave is based on a true incident that occurred in a high school history class in Palo Alto, California, in 1969. The powerful forces of ... The Wave by Morton Rhue Based on a nightmarish true episode in a Californian high school, this powerful novel about the danger of fanaticism is part of the Originals - Penguin's ... Analysing Architecture: Unwin, Simon Clear and accessible, Analysing Architecture opens a fresh way to understanding architecture. It offers a unique 'notebook' of architectural strategies to ... Analysing Architecture - 5th Edition Simon Unwin is Emeritus Professor of Architecture at the University of Dundee, Scotland. He has lived in Great Britain and Australia, and taught or lectured on ... Analysing Architecture: Unwin, Simon This book establishes a systematic method in analyzing architecture. It explains how architectural elements are combined together to form designs that could ... Analysing Architecture - Simon Unwin This book presents a powerful impetus for readers to develop their own capacities for architectural design. Analysing Architecture Notebooks - Book Series Written by bestselling author Simon Unwin, the series follows his well-known style and features his beautiful, high-quality drawings. Each book starts with an ... Analysing Architecture Simon Unwin This channel hosts short videos related to the books I have written for student architects, which include: Analysing Architecture, the Universal Language of ... Analysing Architecture | Simon Unwin - Taylor & Francis eBooks by S Unwin · 2009 · Cited by 592 — Clear and accessible, Analysing Architecture opens a fresh way to understanding architecture. It offers a unique 'notebook' of architectural ... Analysing Architecture: The universal language of place- ... Simon Unwin is a freelance writer and lecturer based in Cardiff, UK. He is a registered architect but concentrates on writing about architecture and teaching ... Analysing Architecture - Simon Unwin Analysing Architecture offers a unique 'notebook' of architectural strategies to present an engaging introduction to elements and concepts in architectural ... Elements of Literature: Student Edition Sixth Course Our resource for Elements of Literature: Student Edition Sixth Course includes answers to chapter exercises, as well as detailed information to walk you through ... Elements of Language: Sixth Course -

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