

## **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?

$$\begin{array}{ll} \text{G} & v = 60 \text{ cm/s} \quad \lambda = 15 \text{ cm} \quad \text{E} & f = v / \lambda \\ \text{U} & f = ? & \text{S} & f = (60 \text{ cm/s}) / 15 \text{ cm} \end{array}$$

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)

$$\begin{array}{ll} \text{G} & v = 342 \text{ m/s} \quad f = 50 \text{ Hz} \quad \text{E} & \lambda = v / f \\ \text{U} & \lambda = ? & \text{S} & \lambda = (342 \text{ m/s}) / 50 \text{ Hz} \end{array}$$

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?
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  $3.0 \times 10^8$  m/s)

$$\begin{array}{ll} \text{G} & \lambda = 6 \text{ cm} \rightarrow 0.06 \text{ m} \quad \text{E} & f = v / \lambda \\ \text{U} & v = ? & \text{S} & f = 3.0 \times 10^8 \text{ m/s} / 0.06 \text{ m} \end{array}$$

14. What is the period of the microwave in problem 13?

$$\begin{array}{ll} \text{G} & f = 5 \times 10^9 \text{ Hz} \quad \text{U} & T = ? \quad \text{E} & T = 1 / f \quad \text{S} & T = 1 / 5 \times 10^9 \text{ Hz} \quad \text{S} & T = 0.0000000002 \text{ s} \end{array}$$

# Wave Behavior Study Guide Answer

**David D. Reid**

## Wave Behavior Study Guide Answer:

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## **Table of Contents Wave Behavior Study Guide Answer**

1. Understanding the eBook Wave Behavior Study Guide Answer
  - The Rise of Digital Reading Wave Behavior Study Guide Answer
  - Advantages of eBooks Over Traditional Books
2. Identifying Wave Behavior Study Guide Answer
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Wave Behavior Study Guide Answer
  - User-Friendly Interface
4. Exploring eBook Recommendations from Wave Behavior Study Guide Answer
  - Personalized Recommendations
  - Wave Behavior Study Guide Answer User Reviews and Ratings
  - Wave Behavior Study Guide Answer and Bestseller Lists
5. Accessing Wave Behavior Study Guide Answer Free and Paid eBooks

- Wave Behavior Study Guide Answer Public Domain eBooks
- Wave Behavior Study Guide Answer eBook Subscription Services
- Wave Behavior Study Guide Answer Budget-Friendly Options

6. Navigating Wave Behavior Study Guide Answer eBook Formats

- ePUB, PDF, MOBI, and More
- Wave Behavior Study Guide Answer Compatibility with Devices
- Wave Behavior Study Guide Answer Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Wave Behavior Study Guide Answer
- Highlighting and Note-Taking Wave Behavior Study Guide Answer
- Interactive Elements Wave Behavior Study Guide Answer

8. Staying Engaged with Wave Behavior Study Guide Answer

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Wave Behavior Study Guide Answer

9. Balancing eBooks and Physical Books Wave Behavior Study Guide Answer

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Wave Behavior Study Guide Answer

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Wave Behavior Study Guide Answer

- Setting Reading Goals Wave Behavior Study Guide Answer
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Wave Behavior Study Guide Answer

- Fact-Checking eBook Content of Wave Behavior Study Guide Answer
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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