

Chapter 12: Wave properties

Knowledge organiser

Waves in air, fluids, and solids

Waves transfer energy from one place to another without transferring matter. Waves may be _____ or _____.

For waves in _____ and _____, it is the wave and not the substance that moves.

- When a light object is dropped into still water, it produces _____ (waves) on the water which _____, but neither the object nor the water moves with the ripples.
- When you speak, your voice has _____ making sound waves travel through the _____. The air itself does not travel away from your throat, otherwise a _____ would be created.



Mechanical waves require a _____ (a medium) to travel through.

Examples of mechanical waves include _____ waves, _____ waves, waves on _____ and ropes, and _____ waves produced by earthquakes.

When waves travel through a substance, the particles in the substance _____ (vibrate) and pass energy on to neighbouring particles.

Transverse waves

The oscillations of a transverse wave are _____ (at right angles) to the direction in which the waves transfer energy.

_____ are an example of transverse waves.



Longitudinal waves

The oscillations of a longitudinal wave are _____ to the direction in which the waves transfer energy.

Longitudinal waves cause particles in a substance to be _____ close together and _____ further apart, producing areas of _____ and _____ in the substance.

_____ in air are an example of longitudinal waves.



Wave motion is described by a number of properties.

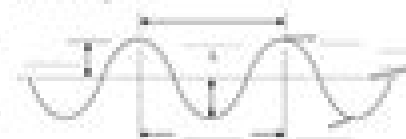
Property	Description	Unit
amplitude A		
frequency f		
period T		
wavelength λ		
wave speed v		

Properties of waves

Frequency and period are related by the equation:

$$\text{period } (s) = \frac{1}{\text{frequency } (Hz)} \quad T = \frac{1}{f}$$

Label the diagram.



All waves obey the wave equation:

$$\text{wave speed } (m/s) = \text{frequency } (Hz) \times \text{wavelength } (m) \quad v = f\lambda$$

When waves travel from one medium to another, their speed and wavelength may change but the frequency stays the same.

The speed of ripples on water can be slow enough to measure using a stopwatch and ruler, and applying the equation:

$$\text{speed } (m/s) = \frac{\text{distance}}{\text{time}}$$

The speed of sound in air can be measured by using a _____ to measure the time taken for a sound to travel a known distance, and applying the same equation.

Reflection of waves

When waves arrive at the boundary between two different substances, one or more of the following things can happen:

- _____ - the energy of the waves is transferred to the energy stores of the substance they travel into (for example, when food is heated in a microwave)
- _____ - the waves bounce back
- _____ - the waves change speed and direction as they cross the boundary
- _____ - the waves carry on moving once they've crossed the boundary, but may be reflected

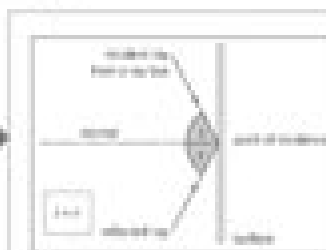
_____ can be used to show what happens when a wave is reflected at a surface.

To correctly draw a ray diagram for reflection:

1. use a _____ to draw all lines for the rays.
2. draw a single _____ on the rays to show the direction the wave is travelling.
3. draw a dashed line at _____ to the surface at the point of _____ (this line is normal to the surface).
4. label the normal, angle of incidence (____), and angle of reflection (____).

When reflection happens at a surface, the angle of incidence is always equal _____.

$$i = r$$



Key terms

Make sure you can write a definition for these key terms.

direction amplitude compression frequency incidence longitudinal mechanical wave oscillate period ray diagram reflection refraction transmission transverse wavelength wave speed

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Table of Contents Murray Chapter 12 Answers Waves

1. Understanding the eBook Murray Chapter 12 Answers Waves
 - The Rise of Digital Reading Murray Chapter 12 Answers Waves
 - Advantages of eBooks Over Traditional Books
2. Identifying Murray Chapter 12 Answers Waves
 - 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 Murray Chapter 12 Answers Waves
 - User-Friendly Interface
4. Exploring eBook Recommendations from Murray Chapter 12 Answers Waves
 - Personalized Recommendations
 - Murray Chapter 12 Answers Waves User Reviews and Ratings
 - Murray Chapter 12 Answers Waves and Bestseller Lists
5. Accessing Murray Chapter 12 Answers Waves Free and Paid eBooks
 - Murray Chapter 12 Answers Waves Public Domain eBooks
 - Murray Chapter 12 Answers Waves eBook Subscription Services
 - Murray Chapter 12 Answers Waves Budget-Friendly Options

6. Navigating Murray Chapter 12 Answers Waves eBook Formats
 - ePub, PDF, MOBI, and More
 - Murray Chapter 12 Answers Waves Compatibility with Devices
 - Murray Chapter 12 Answers Waves Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Murray Chapter 12 Answers Waves
 - Highlighting and Note-Taking Murray Chapter 12 Answers Waves
 - Interactive Elements Murray Chapter 12 Answers Waves
8. Staying Engaged with Murray Chapter 12 Answers Waves
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Murray Chapter 12 Answers Waves
9. Balancing eBooks and Physical Books Murray Chapter 12 Answers Waves
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Murray Chapter 12 Answers Waves
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Murray Chapter 12 Answers Waves
 - Setting Reading Goals Murray Chapter 12 Answers Waves
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Murray Chapter 12 Answers Waves
 - Fact-Checking eBook Content of Murray Chapter 12 Answers Waves
 - 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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