

# 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.

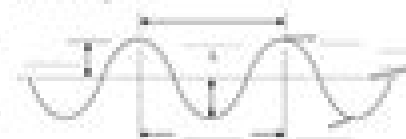
Property	Description	Unit
amplitude $A$		
frequency $f$		
period $T$		
wavelength $\lambda$		
wave speed $v$		

### 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

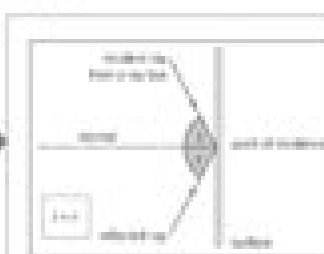
\_\_\_\_\_ can be used to show what happens when a wave is reflected at a surface.

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 Waves 12 Answers**

1. Understanding the eBook Murray Chapter Waves 12 Answers
  - The Rise of Digital Reading Murray Chapter Waves 12 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Murray Chapter Waves 12 Answers
  - 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 Waves 12 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Murray Chapter Waves 12 Answers
  - Personalized Recommendations

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

- 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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