

# 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.

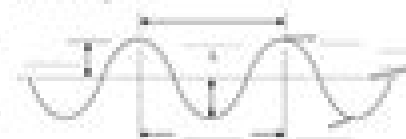
Property	Description	Unit
amplitude $A$		
frequency $f$		
period $T$		
wavelength $\lambda$		
wave speed $v$		

### 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 \_\_\_\_\_ always 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

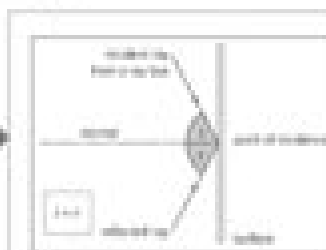
\_\_\_\_\_ can be used to show what happens when a wave is reflected at a surface.

To correctly draw a ray diagram for reflection:

- use a \_\_\_\_\_ to draw all lines for the rays.
- draw a single \_\_\_\_\_ on the rays to show the direction the wave is travelling.
- draw a dashed line at \_\_\_\_\_ to the surface at the point of \_\_\_\_\_ (this line is normal to the surface).
- 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

# Murray Chapter 12 Answers Waves

**Simon Mochrie, Claudia De Grandi**



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