

# Chapter 12: Wave properties

## Knowledge organiser

### Waves in air, fluids, and solids

Waves transfer energy from one place to another without transforming matter. Waves may be **transverse** or **longitudinal**.

For waves to **travel**, it is the **medium** and not the substance that moves.

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

### Transverse waves

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

**Sound waves** are an example of transverse waves.



### Longitudinal waves

The oscillations of a longitudinal wave are **parallel** 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 **compression** and **extension**.

**Sound waves** are an example of longitudinal waves.



Wave motion is described by a number of properties.

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



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

Mechanical waves require a **medium** to travel through.

Examples of mechanical waves include **sound waves**, **light waves**, waves on **water**, and **seismic waves** produced by **earthquakes**.

When waves travel through a substance, the particles in the substance **oscillate** and pass energy on to neighbouring particles.

### Properties of waves

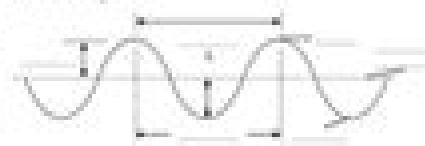
Frequency and period are related by the equation:

$$\text{period } (T) = \frac{1}{\text{Frequency } (f)}$$

All waves obey the wave equation:

$$\text{wave speed } (v) = \lambda \times f$$

Label the diagram.



When waves travel from one medium to another, their speed and wavelength may change but the **frequency** 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:

$$\text{speed } (v) = \frac{\text{distance}}{\text{time}}$$

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

**Snell's law** 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 **vertical line** to draw all lines for the rays.
- draw a single **angle** to the rays to show the direction the wave is travelling.
- draw a dotted line at **90°** to the surface at the point of **incidence** (this line is normal to the surface).
- label the **angle of incidence** ( $i$ ), and **angle of reflection** ( $r$ ).

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

### Reflection of waves

When waves strike 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 past they've crossed the boundary, but may be reflected



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**Joacim Rocklöv**

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