

**Electromagnetic waves**  
An electric and magnetic wave packet or photon that can travel through free space.

**Unpolarised waves**  
When the vibrations change from one plane to another.

**Longitudinal waves**  
Waves with a direction of vibration parallel to the direction of propagation of the waves.

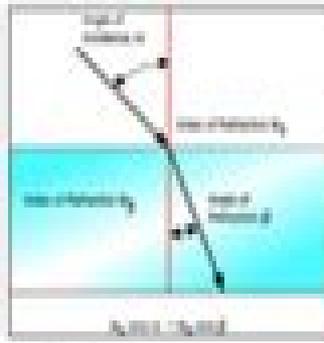
**Polarised waves**  
Transverse waves that vibrate in one plane only.



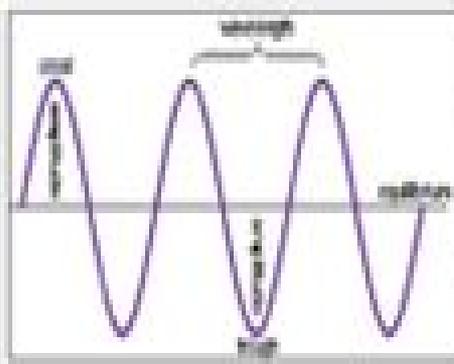
**Transverse waves**  
Waves with a direction of vibration perpendicular to the direction of propagation of the waves.

**Wavefronts**  
Lines of constant phase (e.g., wavefronts).

**Refraction**  
Change of direction of a wave when it crosses a boundary where its speed changes.



- The displacement of a vibrating particle is its distance and direction from its equilibrium position.
- The amplitude of a wave is the maximum displacement of a vibrating particle. For a transverse wave, this is the height of a wave crest or the depth of a wave trough from its equilibrium position.
- The wavelength of a wave is the least distance between two adjacent vibrating particles with the same displacement and velocity at the same time (e.g., from one wave peak to the next).
- The period of a wave is the time for one complete wave to pass a fixed point.
- One complete cycle of a wave is from maximum displacement to the next maximum displacement (e.g., from one wave peak to the next).
- The frequency of a wave is the number of cycles of vibration of a particle per second, or the number of complete waves passing a point per second. The unit of frequency is the hertz (Hz).
- For waves of frequency  $f$ , the period of the wave =  $1/f$
- Wave speed  $v = \lambda f$



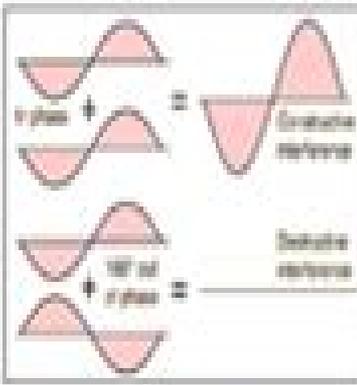
The principle of superposition states that when two waves meet, the total displacement of a point is equal to the sum of the individual displacements at that point.

**Interference**  
The effect of two waves adding together when they meet.

**Coherent**  
Two sources of waves are coherent if they emit waves with a constant phase difference.

**Stationary waves**  
Wave pattern with nodes and antinodes formed when two or more progressive waves of the same frequency and amplitude pass through each other.

**Interference**  
Formation of points of cancellation and reinforcement where two coherent waves pass through each other.



	Stationary waves	Progressive waves
Frequency	All particles except those at the nodes vibrate at the same frequency.	All particles vibrate at the same frequency.
Amplitude	The amplitude varies from zero at the nodes to a maximum at the antinodes.	The amplitude is the same for all particles.
Phase difference between two particles	Equal to $n\pi$ , where $n$ is the number of nodes between the two particles.	Equal to $2\pi x/\lambda$ , where $x$ = distance apart and $\lambda$ is the wavelength.

**Progressive waves**  
Waves which travel through a substance or through space if electromagnetic.

## 4. Waves

**Diffraction**  
The spreading of waves when they pass through a gap or round an obstacle. X-ray diffraction is used to determine the structure of crystals, metals and long molecules.



- The time taken for a wave to travel along the string and back is  $t = 2L/v$ , where  $v$  is the speed of the waves on the string.
- The time taken for the vibrator to pass through a whole number of cycles =  $nt$ .
- It can be shown that the first harmonic frequency  $f$  depends on the tension  $T$  in the wire and its mass per unit length  $\mu$  according to the equation  $f = (3/2L)^{1/2} (T/\mu)^{1/2}$



**The first harmonic**  
The first harmonic pattern of vibration is seen at the lowest possible frequency that gives a pattern.

- The wavelength of the waves that form this pattern, the first harmonic, wavelength  $\lambda = 2L$ .
- The first harmonic frequency  $f = v/\lambda = v/2L$ , where  $v$  is the speed of the progressive waves on the wire.

**The second harmonic**

- The second harmonic, is where there is a node at the middle, so the string is in two loops.
- The frequency of the second harmonic vibrations  $f = v/\lambda = v/L = 2f_1$ .



**The third harmonic**

- The third harmonic, is where there are nodes at a distance of  $L/3$  from either end and an antinode at the middle.
- The frequency of the third harmonic vibrations  $f = v/\lambda = 3v/2L = 3f_1$ .

# O Level Physics Revision Waves Optics

**M Walker**

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### **Table of Contents O Level Physics Revision Waves Optics**

1. Understanding the eBook O Level Physics Revision Waves Optics
  - The Rise of Digital Reading O Level Physics Revision Waves Optics
  - Advantages of eBooks Over Traditional Books
2. Identifying O Level Physics Revision Waves Optics
  - 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 O Level Physics Revision Waves Optics
  - User-Friendly Interface
4. Exploring eBook Recommendations from O Level Physics Revision Waves Optics
  - Personalized Recommendations
  - O Level Physics Revision Waves Optics User Reviews and Ratings
  - O Level Physics Revision Waves Optics and Bestseller Lists

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