

Waves Summary Notes

Transverse waves

The higher the amplitude the greater the energy of the wave.

Freq. of waves produced per second
In time for 1 wave to pass a point



Transverse waves The particles of the medium transmitting the wave travel at right angles to the direction of energy travel, e.g. EM waves

Longitudinal waves The particles of the medium carrying the wave move parallel to the direction of energy travel, e.g. sound



Properties of waves = reflection, refraction, diffraction



Law of reflection angle of incidence = angle of reflection where all angles are measured from the normal

$$f\lambda = \frac{d}{t} \quad \frac{v}{t} = \frac{d}{t} \quad v = \frac{d}{t}$$

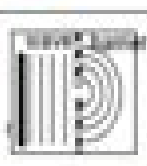
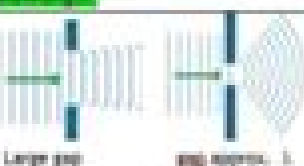


$$f = \frac{1}{T} \quad \text{frequency} = \frac{\text{no of waves}}{\text{time to pass a point}}$$

$$\lambda = \frac{d}{N} \quad \text{wavelength} = \frac{\text{distance}}{\text{no of waves}}$$

Refraction occurs when light enters a material which is more optically dense the wave speed and wavelength reduce but frequency remains the same. Usually this is accompanied by a change in direction of the wave.

When waves enter there is no change to the frequency



When waves diffract through a large gap only the edges of the wave change bend through a narrow gap, smaller than λ , the waves emerge as semi-circles.



Long waves diffract more than short waves which is why long wave radio signals can be detected at the bottom of a hill, but shorter wavelength signals cannot be detected.

All members of EM spectrum are **transverse waves** and travel at $3 \times 10^8 \text{ m s}^{-1}$ in a straight line in air.
EM spectrum waves can be **radio waves**, **microwaves** and **infrared waves**.

Light colours, **red**, **orange**, **yellow**, **green**, **blue**, **indigo**, and **violet**

red light long λ and low f / **blue light short λ and high f**

Type of EM Waves	Application	Detector	Source
Radio & TV	communication (under the sea, in space, radio and TV programming, films, listening to the news,	Aerial	transmitter, outer space, electronic circuits
microwaves	heating food through microwave ovens, communications	Aerial	electronic circuits, magnetron, transmitters, outer space
Infra Red	detector in security lighting, remote controls (e.g. TV)	Photodiode , thermistors , thermometer	warm objects, sun
Visible	human vision, photography, laser surgery,	Photodiode / photographic film / diode / CCD	Stars, candles, light bulbs, electronic devices (eg LEDs), sun
ultra violet	detecting forged bank notes, causing white shirts to look cleaner/ sterilising medical instruments	human skin / causes fluorescence (glowing) in some objects/ fluorescent materials	Fluorescent tubes, very hot objects, sun, gas discharge, lamps
X-Ray	detecting broken bones, checking suitcases at the airport,	Photodiode / photographic film	X-ray machines, stars, very fast electrons hitting a metal target
Gamma Rays	medical tracers to detect cancer, killing bacteria, sterilising instruments, detecting broken pipes underground	/ photographic film / Geiger Muller Tube and counter/ Photodiode	Radioactive nuclei, outer space (including neutron stars)

Low Energy
Low frequency
Long wavelength



High Energy
High frequency
Short wavelength



<https://www.youtube.com/watch?v=8u00N000Yr4> Calculate the wavelength of a 98 MHz radio **point, stop, start** for given the speed as you should know all these waves travel at $3 \times 10^8 \text{ m s}^{-1}$

$$v = f\lambda$$

$$3 \times 10^8 = 98 \times 10^6 \times \lambda$$

$$\lambda = 3.06 \text{ m}$$

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Table of Contents National 5 Physics Summary Course Notes

1. Understanding the eBook National 5 Physics Summary Course Notes
 - The Rise of Digital Reading National 5 Physics Summary Course Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying National 5 Physics Summary Course Notes
 - 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 National 5 Physics Summary Course Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from National 5 Physics Summary Course Notes
 - Personalized Recommendations
 - National 5 Physics Summary Course Notes User Reviews and Ratings
 - National 5 Physics Summary Course Notes and Bestseller Lists

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