

The maximum displacement of particles of the medium from their mean positions during the propagation of a wave	Lines of constructive interference	A point of maximum amplitude because of constructive interference of waves	Observed frequency of wave when source or observer is moving (f')
Amplitude (of waves)	Antinodal lines	Antinode	Apparent frequency
A kind of interference. It occurs when two sets of waves have slightly different frequencies, $f_b = f_2 - f_1$	Difference between the frequencies of two similar waves	Area of constructive interference	A pipe with one end open and the other end blocked up
Beat	Beat frequency	Bright fringe	Closed Pipe
A part of a longitudinal wave in which the density of the particles of the medium is higher than the normal density	Two waves arriving at the same place, at the same time and in phase, add amplitudes to create a wave with a larger amplitude	The point of maximum positive displacement on a transverse wave is called a crest	A complete vibration
Compression	Constructive interference	Crest	Cycle
Vibrations which gradually die out as their source loses energy	Area of destructive interference	A nonlinear scale of loudness based on the ratio of the intensity level of a sound to the intensity at the threshold of hearing	Two waves arriving at the same point at the same time out of phase add their amplitudes to create zero total disturbance
Damped	Dark fringe	Decibel scale	Destructive interference

Wave changes direction	Bending of waves around a barrier/through a gap	Series of fine slits or lines used to deviate waves (e.g. Light)	Refraction in e.g. a prism causes white light to split up into colours
Deviates	Diffraction	Diffraction grating	Dispersion
An apparent shift in the frequency of a wave due to relative motion between the source of the wave and the observer	A reflected sound that can be distinguished from the original sound, which usually arrives at least 0.1 s after the original sound	Atomic line spectra given off from low pressure gas excited by heat or electricity	The number of waves which reach an observer in one second
Doppler effect	Echo	Emission spectra	Frequency
Band of light/dark	This is the simplest standing wave the medium can produce. It is the lowest possible frequency	An exact multiple of the fundamental frequency e.g. the second harmonic has twice the fundamental frequency	Unit of frequency; equivalent to one cycle per second
Fringe	Fundamental	Harmonic	Hertz
Matter emitting visible light as a result of high temperature e.g. a light bulb/flame because of high temperature	Moving towards (e.g. Incident light strikes a mirror)	Waves about to collide with boundary / interface	Sound waves having too low a frequency to be heard by the human ear; sound having a frequency of less than 20 Hz
Incandescent	Incident	Incoming waves	Infrasonic

A measure of the energy carried by a wave	Boundary between two different media	Effect occurring when waves meet	The wave in which the particles oscillate in the same direction as the direction of propagation of wave e.g. sound waves
Intensity	Interface	Interference	Longitudinal waves
Related directly to the amount of energy of the vibrating source	The total amount of energy radiated into space each second from the surface of a star	An object or objects that produce visible light; for example star/light bulbs/burning materials	The waves, which need a material medium for their propagation e.g. sound waves, water waves
Loudness	Luminosity	Luminous	Mechanical wave
Lines of destructive interference	A point in a stationary wave without any disturbances. Destructive interference occurs at nodes	Sounds made up of groups of waves of random frequency and intensity	A pipe with both ends open
Nodal lines	Node	Noise	Open Pipe
A vibration or regular pattern of movement or compressions e.g. sound waves in air	The time required for one complete cycle of a wave	When wave collides with an interface, the reflected wave has same speed/amplitude as incident wave but is upside down	Frequency of sound (low pitch = low frequency, high pitch = high frequency)
Oscillation	Period (wave)	Phase change	Pitch

Whose constituent transverse waves are all vibrating in the same plane	A film that transmits only polarized light	A wave of short duration confined to a small portion of the medium at any given time	A part of a longitudinal wave in which the density of the particles of the medium is less than the normal density
Polarized Light	Polaroid	Pulse	Rarefaction
Shift in spectral lines from stars due to their relative motion	A line representing direction of motion of light reflected from a boundary	The change when light, sound, or other waves bounce backwards off a boundary	The mass an object would mass if you could measure it while it is moving
Red shift	Reflected ray	Reflection	Relativistic mass
Oscillation when frequency of forced vibration is same as natural frequency	Apparent increase in volume caused by reflections, usually arriving within 0.1 second after the original sound	Gap /Aperture	Sound waves that pile up into a shock wave when a source is traveling at or faster than the speed of sound
Resonance	Reverberation	Slit	Sonic boom
Longitudinal wave that requires a medium (travels at 340 ms^{-1} in air)	The dispersion of white light into its component colours ROYGBIV for visible light	Where two waves of equal frequency traveling in opposite directions meet they can produce these	When two or more waves occupy the same position at the same time, they 'overlap' and show a combined pattern
Sound waves	Spectrum	Standing waves	Superimposed

Addition of wave pulses	Electromagnetic waves with frequencies in the infrared range lower than the red end of the visible spectrum	The time taken by a wave to travel through a distance equal to its wavelength	The time taken to complete one oscillation
Superposition of pulses	Thermal radiation	Time Period (of a wave)	Time Period (of an oscillation)
Occurs when a wave arrives at a boundary at the critical angle or beyond and is reflected back	A wave in which the particles of the medium oscillate in a direction perpendicular of the direction of propagation of wave	The point of maximum negative displacement on a transverse wave	Sound waves too high in frequency to be heard by the human ear; frequencies above 20,000Hz
Total internal reflection	Transverse waves	Trough	Ultrasonic
Light consisting of transverse waves vibrating in all conceivable random directions	A disturbance or oscillation that moves through a medium	Top of the wave	Direction which wave is travelling (wave front will be at 90° to this)
Unpolarised light	Wave	Wave crest	Wave direction
Point on wave where waves have the same path length from the source	The movement produced involving the transfer of energy but not the transfer of matter	The time required for two successive crests or other successive parts of the wave to pass a given point	The distance traveled by a wave in one second
Wave front	Wave motion	Wave period	Wave velocity

The distance between the two nearest points on a waves (two adjacent crests or two adjacent troughs)			
Wavelength			

