

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 a wave)	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

When a 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	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	A measure of the energy carried by a wave
Incandescent	Incoming waves	Infrasonic	Intensity

Boundary between two different media	Effect occurring when waves meet	A wave in which the particles oscillate in the same direction as the direction of propagation of wave e.g. sound waves	Related directly to the amount of energy of the vibrating source
Interface	Interference	Longitudinal wave	Loudness
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	A wave, which needs a material medium for their propagation e.g. sound waves, water waves	Lines of destructive interference
Luminosity	Luminous	Mechanical wave	Nodal lines
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	A vibration or regular pattern of movement or compressions e.g. sound waves in air
Node	Noise	Open Pipe	Oscillation
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	Common term for the frequency of sound	A wave of short duration confined to a small portion of the medium at any given time
Period (of a wave)	Phase change	Pitch	Pulse

A part of a longitudinal wave in which the density of the particles of the medium is less than the normal density	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
Rarefaction	Red shift	Reflected ray	Reflection
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 to complete one oscillation	A wave in which the particles of the medium oscillate in a direction perpendicular of the direction of propagation of wave
Superposition of pulses	Thermal radiation	Time Period (of an oscillation)	Transverse 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	A disturbance or oscillation that moves through a medium	Top of the wave
Trough	Ultrasonic	Wave	Wave crest
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 distance traveled by a wave in one second	Direction which wave is travelling (wave front will be at 90 ° to this)
Wave front	Wave motion	Wave velocity	Wave direction
The distance between the two nearest points on a wave (two adjacent crests or two adjacent troughs)			
Wavelength			