

1. Amplitude	The maximum distance that the particles of a wave's medium vibrate from their rest position	21. Loudness	A physical response to the intensity of sound, modified by physical factors
2. Amplitude Modulation	A method of transmitting signals by changing the amplitude of a wave.	22. Magnetic Field	The region around a magnet where the magnetic force is exerted.
3. Antinode	A point where a crest or trough occurs midway between two nodes	23. Mechanical Wave	A disturbance in matter that carries energy from one place to another. Requires a medium through which to travel.
4. Compression	An area where the particles in a medium are spaced close together	24. Medium	Material through which a wave travels
5. Constructive Interference	The interference that occurs when two waves combine to make a wave with a larger amplitude	25. Node	A point on a standing wave that has no displacement from the rest position
6. Crest	Highest point of a wave	26. Period	The time required for one cycle, a complete motion that returns to its starting point.
7. Decibel	A unit that compares the intensities of different sounds	27. Periodic Motion	Any motion that repeats at regular time intervals
8. Destructive Interference	The interference that occurs when two waves combine to make a wave with a smaller amplitude	28. Photoelectric Effect	The emission of electrons from a metal when light shines on the metal
9. Diffraction	The bending of a wave as it moves around an obstacle or passes through a narrow opening	29. Photons	Packets of electromagnetic energy
10. Doppler Effect	A change in sound frequency caused by motion of the sound source, motion of the listener, or both.	30. Pitch	Perception of the frequency of a sound
11. Electric Field	A field of force surrounding a charged particle	31. Rarefaction	An area where the particles in a medium are spread out
12. Electromagnetic Radiation	The transfer of energy by electromagnetic waves traveling through matter or across space	32. Reflection	The bouncing back of a wave when it hits a surface through which it cannot pass.
13. Electromagnetic Spectrum	All of the frequencies or wavelengths of electromagnetic radiation	33. Refraction	The bending of a wave as it passes at an angle from one medium to another
14. Electromagnetic Waves	Transverse waves consisting of changing electric fields and changing magnetic fields	34. Resonance	The response of a standing wave to another wave of the same frequency
15. Frequency	The number of complete wavelengths that pass a point in a given time	35. Sonar	A technique for determining the distance to an object under water
16. Frequency Modulation	A method of transmitting signals by changing the frequency of a wave	36. Sound Waves	A longitudinal wave consisting of compressions and rarefactions, which travels through a medium
17. Hertz	Unit of measurement for frequency. Cycles per second.	37. Standing Wave	A wave that appears to stay in one place
18. Intensity	The rate at which a wave's energy flows through a given unit of area.	38. Surface Wave	A wave that travels along a surface separating two media.
19. Interference	The combination of two or more waves that results in a single wave	39. Thermograms	Color-coded pictures that show variations in temperature
20. Longitudinal Wave	A wave in which the vibration of the medium is parallel to the direction the wave travels	40. Transverse Wave	A wave in which the vibration is at right angles to the direction in which the wave is traveling.
		41. Trough	Lowest point of a wave
		42. Wavelength	The distance between two corresponding parts of a wave