Vocabulary: Properties of Waves

Vocabulary

wave:	Disturbances that move through a medium that are evidence of energy being transferred through time and space. In general, waves:
	 Exhibit no net transport of material Transport energy
	 Transport energy Have characteristic waveforms
medium:	Any matter (solid, liquid, gas, or plasma) that has molecules to transport a wave's energy.
transverse	
wave:	A wave in which the particles of the medium move back and forth perpendicular to the direction of the wave.
longitudinal	
wave:	A wave in which the particles of the medium move back and forth in the same direction as the wave.
crest:	The tops of a wave.
trough:	The bottoms of a wave.
wavelength, λ	: The distance between adjacent wave crests.
amplitude, A:	The maximum distance a wave moves from its resting position, or undisturbed state.
	Wave variable Wavelength, λ



period, T: The time required for one complete wave to pass a given point.

Unit of measurement = seconds, s

frequency, f:

The number of waves that pass a given point per second.

• Frequency is the inverse of the period, 1/T



y, j.