

PHYSICS 1

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STUDY GUIDE

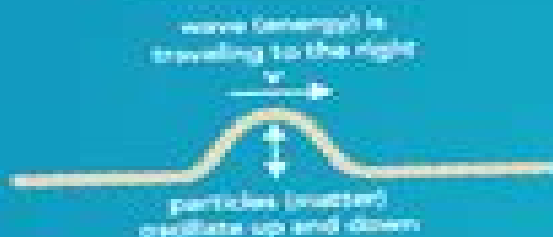
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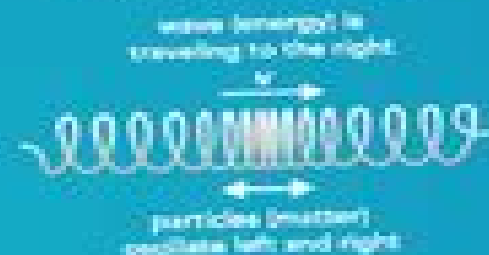
- There are many different types of waves which behave in different ways, but they all share similar characteristics.
- All waves carry or transport energy, and some waves also carry matter.
- Transverse waves are waves where the physical material moves perpendicular to the direction of the wave. If the wave is traveling to the right, the particles in the medium move up and down. Examples include water waves and waves traveling in a string.
- Longitudinal waves are waves where the physical material moves parallel to the direction of the wave. The particles in the medium do not travel with the wave, they just oscillate back forth within a small distance. Examples include sound waves and longitudinal waves traveling in a spring.

Variables		SI Unit
λ	wavelength	m
T	period	s
f	frequency	Hz = $\frac{\text{cycles}}{\text{s}}$
A	amplitude	m, ...
v	velocity	$\frac{\text{m}}{\text{s}}$

Transverse wave



Longitudinal wave



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