

WAVES - Introductory Notes

	-a disturbance	e that transmits energy through space	ce
 Mos 	st waves require a	(matter through which a	wave travels like water or air)
Two Types	of Waves		
• Tran	nsverse wave-particles of the	medium vibrate	to the
dire	ction of the wave. Examples:	: wave in water, light wave	
(o	highest point of wave	
(o	lowest point of wave	Particle
(0	distance from rest	Wave motion
	position to crest or trough	; amount of energy in a wave	
(0	(λ)-distance between a	my two successive identical
	parts of a wave		
		ne medium vibrate	
of th	ne wave. Examples: slinky, s		
(-part of wave where the coils/	particles are pressed together
			20 B 1550
(part of wave where the coi	ils/particles are spread apart
	0	-part of wave where the con-	ils/particles are spread apart to compression
C	0	-part of wave where the coi - distance from compression - distance from the rest positi	ils/particles are spread apart to compression
C	0	-part of wave where the coi - distance from compression - distance from the rest positi	ils/particles are spread apart to compression



	- the movement o	of the energy pulse in a wave	
	- the rate at which	h a wave is propagated, the rate at v	which the
pulse	of energy in a wave moves from one place	to another	
The s	peed of light waves is		
The s	peed of sound in air is about	depending on the ter	mperature and
humic	dity of the air		
	- the number of co	mplete waves that pass by a certain	n point in an
	- the number of count of time.	mplete waves that pass by a certain	n point in an
	454 F1		
amou	nt of time.	r second, the unit is called a	(
amour	nt of time. When frequency is measured in waves per	r second, the unit is called a	(
amour	when frequency is measured in waves per TV screens cycle at 50 or 60 Hz, meaning	r second, the unit is called a g that they refresh their contents 50	or 60 times

Universal Wave Equation

The frequency, wavelength, and speed of waves are related by the equation v = $f \ast \lambda$