

	0
2 Longitudinal waves: a wave in which particles of a medium	● Chapter
move back and forth, parallel to the direction of the wave.	
→ examples: Sound waves.	6
ShotilgmA: A	0
* The Form of the wave:	0
The distance between two	0
aut in sum yil= Axcos $\left(2\pi\left(\frac{x}{\lambda} + \frac{t}{\tau}\right)\right)$	•
- super off to entrust (X T)	
The plus/minus symbol indicates the direction of travel.	
A: is the amplitude of the wave.	•
= XF # Cycles (The number of cycles that occur	V -
wavenumber (k) = IT (How many cycles per metre).	-
T = Hine (the time it takes to complete one	-7 6
Angular frequency (w) = 2TTf boing shows	Strall Co
Trigular reguericy to 2	(2)
* The expression of the wave become : a month of the	CONTINK * C
	another.
y = A cos (Rx 7 wt)	
The "-" sign, represents a wave travelling in the x+ direction!	* Types
The "+" sign, represents a wave travelling in the x-direction.	-
erse wave : a wave in which particles of a medium move up and	2007 III C
* what happens when two waves overlap?	
when two waves combine they will exhibit superposition,	slavareil -
and this will produce an interference patterning the same of	
, The resultant wave has an amplitude of 2x at the moment	
of complete overlap.	8
	-
	9





