

period: time to produce 1 wave (s)
1.5 period = 1.5 wave passed / shifted

frequency: # of how many complete cycles / waves pass in 1s (Hz)

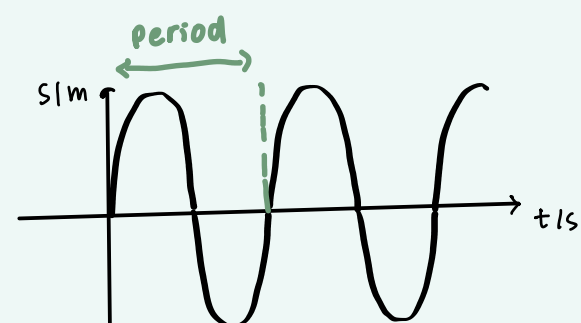
$f = \frac{1}{T}$ "___ crests 1s"

wave speed: wave distance / s

$v = f \lambda = \frac{\lambda}{T}$

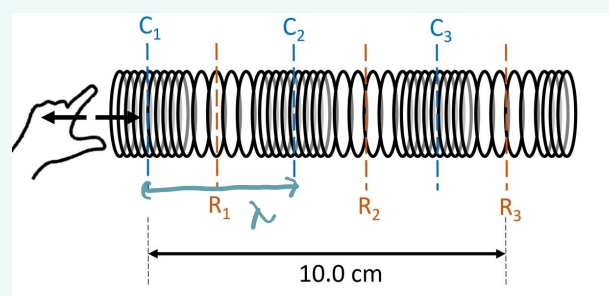
only changes when medium changes

"crests pass ___ min ___ s"

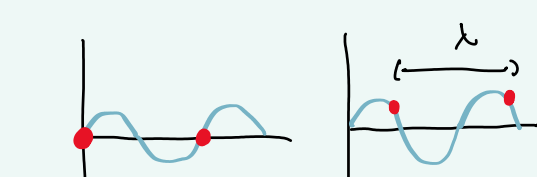
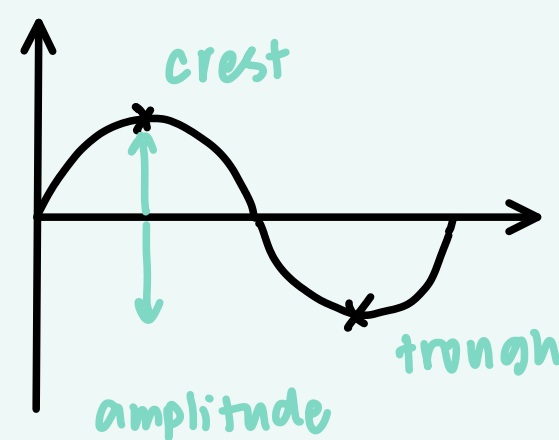


wavelength = speed x time
over a time interval.

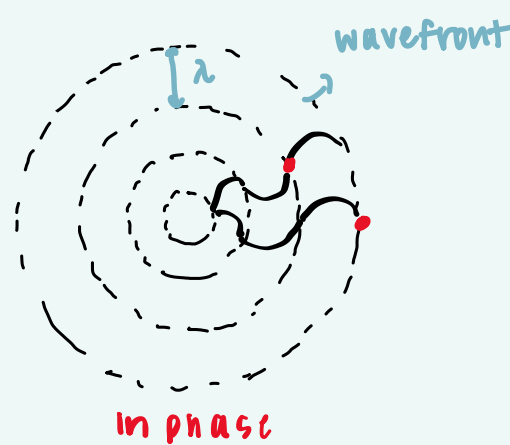
Sound waves:
Echo: 1 heard through medium,
other heard through air



Parts

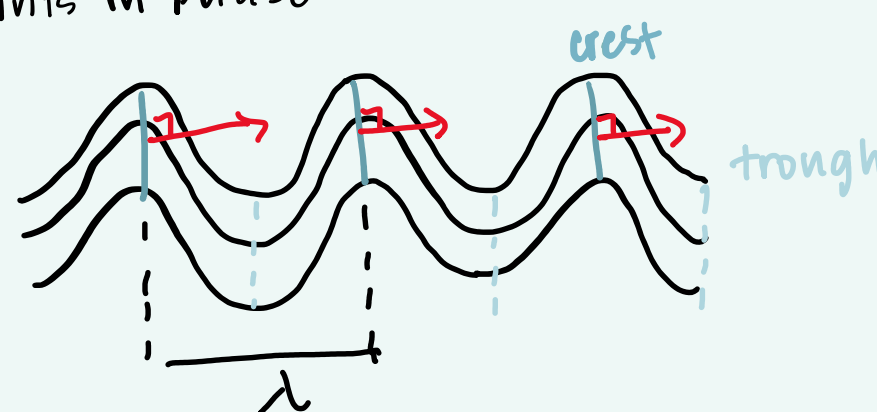


in phase: points on a wave
if:
• same direction
• same speed
• same displacement from rest position



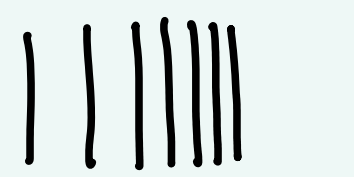
Wavefronts

imaginary lines which joins all adjacent points in phase



Depth	Frequency	Wavelength	Speed
shallow	same	short	slow
deep	same	long	fast

- Direction of wave is always perpendicular to the wavefront



deep → shallow

