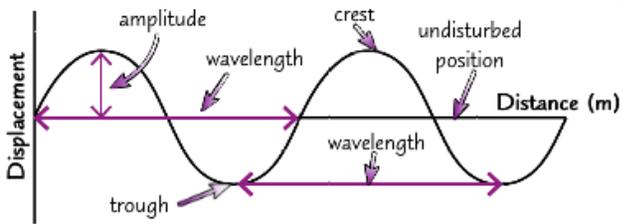
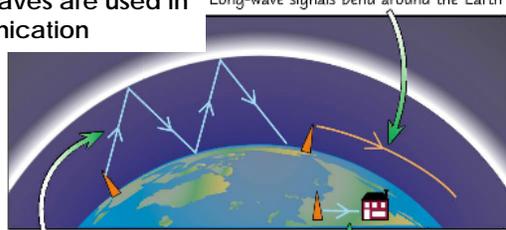


Physics Crib Sheet: Topic 6

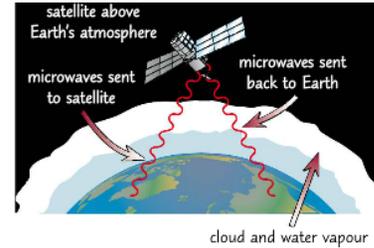


Radio waves are used in communication

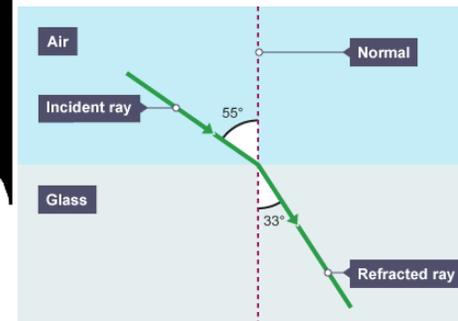


Key word	Definition
Absorbed	Energy is taken in by the object
Transmitted	The wave continues to travel through objects
Reflected	The wave is sent back towards the object

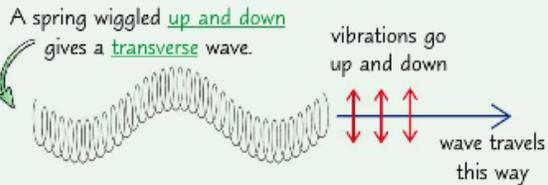
Microwaves are used in satellites



Refraction - light bends towards the normal



Transverse Wave



X - Rays



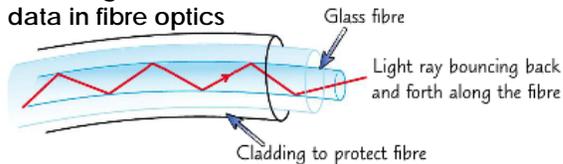
The brighter bits are where fewer X-rays get through. This is a negative image. The plate starts off all white.

Electromagnetic Spectrum

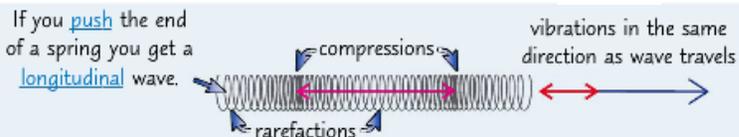
RADIO WAVES	MICRO WAVES	INFRA RED	VISIBLE LIGHT	ULTRA VIOLET	X-RAYS	GAMMA RAYS
1 m - 10 ⁴ m	10 ⁻² m	10 ⁻⁵ m	10 ⁻⁷ m	10 ⁻⁸ m	10 ⁻¹⁰ m	10 ⁻¹⁵ m



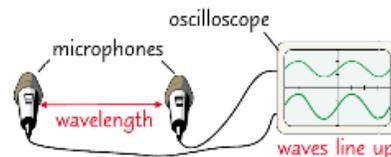
Visible light is used to transmit data in fibre optics



Longitudinal Wave

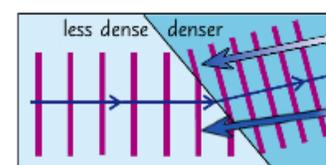


speaker attached to signal generator



Oscilloscopes measure the speed of sound

Wave front Refraction



So this part of the wave front will have travelled further by the time it crosses the boundary.

