

PHYSICS (Higher Trilogy) – YEAR 11 – WAVES

A WAVE PROPERTIES		
1	Transverse	Oscillate perpendicular to travel
2	Longitudinal	Oscillate parallel to travel
3	All waves transfer	Energy
4	Amplitude	Maximum displacement from undisturbed position
5	Wavelength	Peak to peak distance
6	Frequency	Waves passing point per second
7	Time Period	Time taken for wave to pass certain point
8	wave speed =	frequency x wavelength

C ELECTROMAGNETIC SPECTRUM		
1	Radio Waves	TV and Radio – Longest wavelength
2	Microwaves	Satellites and Cooking Food
3	Infrared	Infrared Cameras, Cooking Food
4	Visible	Fibre Optics
5	Ultra Violet	Energy efficient lamps, sun beds
6	X-ray, Gamma	Medical Imaging and Treatment Gamma are shortest wavelength
7	Radio Production	Produced by oscillating circuits and can induce electrical signals
8	Hazardous	Ultraviolet, X-ray, Gamma

