

CP4: **Waves** (Paper 1)

Lesson	Objectives Tracker Sheet	Date covered	I know this well	I need to do more work on this
CP4a Describing waves	P4.1 Recall that waves transfer energy and information without transferring matter.			
	P4.3 Define and use the terms frequency and wavelength as applied to waves.			
	P4.4 Use the terms, amplitude, period and wave velocity as applied to waves.			
	P4.5 Describe the difference between longitudinal and transverse waves by referring to sound, electromagnetic, seismic and water waves.			
CP4b Wave speeds	P4.6 Recall and use both the equations below for all waves: wave speed (metre/second, m/s) = frequency (hertz, Hz) × wavelength (metre, m) $v = f \times \lambda$ wave speed (metre/second, m/s) = distance (metre, m) ÷ time (second, s) $v = x/t$			
	P4.7 Describe how to measure the velocity of sound in air and ripples on water surfaces.			
CP4b Investigating waves – Core practical	P4.17 Investigate the suitability of equipment to measure the speed/frequency/wavelength of a wave in a solid and a fluid.			
CP4c Refraction	P4.10 Explain how waves will be refracted at a boundary in terms of the change of direction and speed.			