

Outcomes and experiences S3 Physics	G	O	R	How do I know I can do this or what can you do to improve your learning in this outcome?
I am aware that waves transfer energy				
I can define a transverse wave as being a wave in which the direction of vibration of the particles is at right angles to the direction of wave travel				
I can define a longitudinal wave as being a wave in which the particles move along in the same direction as the wave carries energy				
I can classify waves as being transverse, e.g. water waves, or longitudinal, e.g. sound waves				
I can determine, from a diagram or data, the following properties of a wave frequency, period, wavelength, amplitude, wave speed				
I can identify situations in which the diffraction of a wave can take place e.g. radio waves passing a mountain				
I can explain and compare the diffraction of long wavelengths and short wavelengths				
I can sketch diagrams of wavefronts to show diffraction around a barrier or through a gap				