

Physics > Big idea PSL: Sound, light and waves > Topic PSL5: Measuring waves

## Key concept (age 14-16)

## **PSL5.1: Visualising waves**

## **Progression toolkit: Visualising waves**

Learning focus	The motion of particles in a wave can be represented by a displacement-distance or a displacement-time graph, from which the wave's amplitude and wavelength or time period can be found.				
As students' conceptual understanding progresses they can:	Identify wavelength and amplitude on pictures of transverse waves.	Explain how a displacement-distance graph relates to the transverse wave it describes.	Explain how a displacement-time graph relates to the wave it describes.	Identify wavelength and amplitude on pictures of longitudinal waves.	Explain how a displacement-distance graph relates to the longitudinal wave it describes.
Diagnostic questions	The right wavelength	Rope wave graph	New wave graph	Longitudinal measurements	Spring wave graph
			Sound graph		
Response activities			Oscilloscope graph	Explaining longitude waves	

## Key:

P Prior understanding from earlier stages of learning

Bridge to later stages of learning



