

Unit Overview – Waves 1

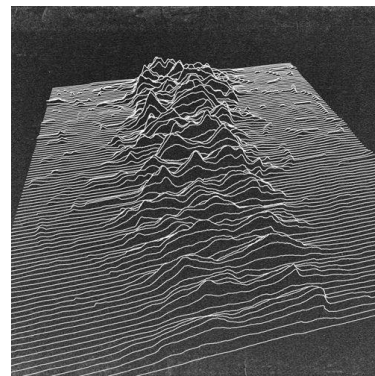
Target grade for tests:

You will learn about:

- What sound is
- How sound behaves
- What light is
- How light behaves

You will be able to:

- Interpreting graphs
- Calculating speed of waves



Key learning points					Key Words	
Define the role of a wave					Vibration	
Identify key features in wave diagrams					Longitudinal wave	
Describe the links between frequency/pitch and amplitude/volume					Volume	
State the human range of hearing					Pitch	
Label the parts of the human ear and describe how we hear					Amplitude	
Calculate the speed of sound					Wavelength	
State the factors that can affect the speed of sound					Frequency	
Explain echoes					Vacuum	
Label the parts of the human eye and describe how we see					Oscilloscope	
Evaluate the different methods of correcting vision defects					Absorption	
Describe refraction					Auditory range	
Explain reflection using ray diagrams					Echo	
State the law of reflection					Incident ray	
Explain how shadows are formed					Reflected ray	
Explain the difference between: transparent and translucent					Normal	
State that coloured light is part of a spectrum					Angle of reflection	
					Angle of incidence	
					Refraction	
Links to other subjects:					Absorption	
SMSC					Scattering	
<ul style="list-style-type: none"> • Explore the links between radio masts, mobile phones and cancer. 					Transparent	
Numeracy					Translucent	
<ul style="list-style-type: none"> • Use prefixes for units when handling large numbers • Interpreting data in tables • Measuring and recording angles • Spotting trends in data 					Opaque	
Literacy					Convex lens	
<ul style="list-style-type: none"> • Interpret diagrams to develop explanations 					Concave lens	
					Retina	
Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection