



I Can Statement - Year 8

Light & Sound

Unit/Topic Overview	Pre-taught Vocabulary	
This topic looks at Light and sound which are two forms of energy that travel as waves, allowing your body to sense and understand the world around you. Sound is a wave caused by vibrations; it requires a material, or medium, to travel through, vibrating particles as it moves through the air to your ears, where your brain interprets the pitch and volume. In contrast, light is an electromagnetic wave that is so fast it can travel through the empty vacuum of space. As light travels, it interacts with different objects, allowing us to see by bouncing off surfaces, bending through lenses, or splitting into a spectrum of colours.	Vibration	Wavelength
	Longitudinal	Pitch
	Transverse	Refraction
	Amplitude	Dispersion
	Frequency	Spectrum

RAG Rating:		Start	End
1.	I can describe how light travels in straight lines and explain how this is demonstrated		
2.	I can explain how reflection occurs and use ray diagrams to show the path of light.		
3.	I can describe how light behaves when it passes through different materials (transparent, translucent, opaque).		
4.	I can explain refraction and describe how light changes direction when moving between media.		
5.	I can identify and describe the parts and functions of the human eye.		
6.	I can explain how sound is produced and how vibrations travel through different media.		
7.	I can describe how sound waves travel and compare them with light waves.		
8.	I can explain how pitch and volume are related to frequency and amplitude.		
9.	I can apply their understanding of light and sound to real-world examples (e.g., mirrors, lenses, musical instruments).		