

Aspect	EYFS	FS KS1		Lower KS2		Upper KS2	
	Reception	Y1	Y2	Y3	Y4	Y5	Y6
Identifying and naming	I can listen to sounds outside and identify the source I make sounds I can identify different common and environmental sounds.			Identify that light is reflected from surfaces, using equipment such as mirrors to demonstrate.	Listen to and be able to identify a variety of familiar sounds and what is vibrating in each case.		Identify parts of the eye and draw a diagram showing how light enters our eyes in order to see, using correct vocabulary.
Phenomena				Recognise that dark is the absence of light and describe how light behaves.	Describe how sound travels through a medium to the outer ear and how sound is transferred to the inner ear. Know the correlation between the volume of a sound around the strength of the vibrations that produced it.	Investigate shadows in relation to times of day and explain why the Sun appears to move across the sky.	Know how simple optical instruments work.
Physical processes				Explain that when a light source is blocked a shadow is formed.	Describe and demonstrate how the volume or pitch of a sound can be altered, using a range of equipment such as musical instruments. Know how sound us made.	Describe the Earth's rotation to explain day and night.	Explain how light travels in straight lines. Demonstrate, using a model or diagram, how this explains why we can see objects and how shadows are formed.
Classifying				Classify a range of objects as either light sources or light reflectors.	Investigate and classify materials for their ability to insulate against sound		Classify a range of objects or surfaces for their reflective qualities using scientific testing.
Comparing	Explore and describe electrical and non- electrical light sources			Compare how the size, shape and sharpness of shadows can change, using equipment or models.	Measure and compare the volume of a sound at different distances from its source, using appropriate equipment.		Compare how a beam of light changes direction (refraction) when passing through different mediums, such as water and air.