

Science Skills Coverage- Light and sound

Skill	Y3	Y4	Y5	Y6
Identification and functions	<p>Identify that light is reflected from surfaces, using equipment such as mirrors.</p> <p>Recognise that dark is the absence of light and describe how it behaves.</p> <p>Explain how shadows are formed.</p>	<p>Listen to and be able to identify different familiar sounds and what is vibrating.</p> <p>Describe how sound travels through a medium to the outer ear and how sound is transferred to the inner ear.</p> <p>Describe and demonstrate how the volume or the pitch of a sound can be altered using equipment.</p>	<p>Identify by investigation if and how light and sound travels through space, using specific examples.</p> <p>Describe the Earth's rotations to explain day and night.</p>	<p>Identify parts of the eye and draw a diagram showing how light enters our eyes in order to see, using the correct scientific terminology.</p> <p>Describe how white light can be split using prisms and droplets of water and what colours white light is made from.</p>
Classification through Investigation	<p>Classify a range of objects as sources or reflectors.</p> <p>Compare how the size, shape and sharpness of shadows can change.</p>	<p>Investigate and classify materials for their ability to insulate against sound.</p>	<p>Investigate shadows in relation to times of day and explain why the sun appears to move across the sky.</p>	<p>Classify a range of objects or surfaces for their reflective qualities using scientific testing.</p> <p>Compare how a beam</p>

				of light changes direction when passing through different mediums.
Measuring		Measure and compare the volume of a sound at different distances from its source.	Compare day lengths during different seasons and provide an explanation for why they differ.	Explain how light behaves and travels in straight lines. Demonstrate using a model/diagram and how this explains why we can see objects and how shadows are formed.
Impact	Recognising that light from the sun is damaging for vision and the skin and how we can protect ourselves.	Recognise that certain sounds can be damaging for hearing and identify ways which the ear can be protected.	Recognise that it isn't safe to look directly at the Sun, even when wearing dark glasses.	Recognise the dangers of using lasers and how they can be used safely.

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		Describe how sound travels through a medium to the outer ear and how sound is transferred to the inner ear. Describe and demonstrate how the volume or the pitch of a sound can be altered		

		using equipment.		
Classify	.	Investigate and classify materials for their ability to insulate against sound.		
Measuring		Measure and compare the volume of a sound at different distances from its source.		
		Recognise that certain sounds can be damaging for hearing and identify ways which the ear can be protected.		.
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