







## Year 3 Science - Light and Shadows - Spring 2

What am I going to learn in this unit?	Vocabulary I need to know	
<p><b>Sticky Knowledge:</b></p> <ul style="list-style-type: none"> <li>Recall examples of light sources, objects that do not give out light and that darkness is the absence of light.</li> <li>Describe ways to protect eyes from harm.</li> <li>Describe what happens when light reflects, give examples of reflective surfaces or materials and describe factors that may affect the quality of a reflected image.</li> <li>Describe how shadows form and identify patterns between groups of materials and the shadows produced.</li> <li>Recall factors that affect the way a shadow appears, including what causes shadows to change throughout the day and factors that change the size of a shadow</li> <li>Describe the pattern of changing shadows throughout the day.</li> <li>Describe how the light source's distance affects the shadow's size.</li> <li>Explain why a particular material is appropriate to make a shadow puppet and use knowledge of shadows to animate it.</li> </ul> <p><b>Working Scientifically Skills:</b></p> <ul style="list-style-type: none"> <li>Recall what information needs recording to decide the number of columns in a results table and suggest suitable headings for the results table.</li> <li>Record information in the correct columns.</li> <li>Identify if a question is testable, explain why and plan ways to answer a testable question.</li> <li>Identify and explain why something is an advantage or disadvantage of a method and suggest an improvement to the experiment.</li> <li>I can describe patterns in data and quote values as evidence of patterns in data.</li> <li>I can identify odd results that do not fit the pattern.</li> <li>I can use patterns to make predictions for missing data.</li> </ul>	<p><u>Light Source</u></p> 	<p>An object that makes its own light.</p>
	<p><u>Reflection</u></p> 	<p>The process where light hits the surface of an object and bounces back into our eyes.</p>
	<p><u>Ray</u></p> 	<p>Waves of light are called light rays. They can also be called beams.</p>
	<p><u>Shadow</u></p> 	<p>An area of darkness where light has been blocked</p>
	<p><u>Translucent</u></p> 	<p>Describes objects that let some light through, but scatter the light so we can't see through them properly</p>
	<p><u>Opaque</u></p> 	<p>Describes objects that do not let any light pass through them</p>