

Title: Light		Year: 3
		Duration: 2 weeks
Teaching Ideas	Subject	National Curriculum Objectives
<p>Explore how light reflects from different surfaces, including mirrors.</p> <p>Pupils should learn how shadows are formed. They should investigate how the size of shadows change when a light source moves and look for comparisons between the distance from the light source to the object and the size of the shadow.</p> <p>Pupils will design and carry out their own investigations/test, e.g:</p> <ul style="list-style-type: none"> • Make shadow puppets to test 'Does the distance from the light source to the object affect the size of the puppet? • Go outside to explore 'Does the size and position of shadows change during the day?' Pupils could draw around their own shadows at different times of the day / mark the position and length of the shadow of a metre stick/flag pole at different times of the day and record the position of the sun at different times of the day. They could create their own models demonstrating the change of shadows throughout the day using a torch. • Test a range of materials to see which are the most reflective and investigate how light is reflected from different surfaces. 	Science	<ul style="list-style-type: none"> • To be able to ask relevant questions and use different types of scientific enquiries to answer them • To be able to set up simple practical enquiries, comparative and fair tests • To be able to make systematic and careful observations and take accurate measurements using standard units, using a range of equipment • To be able to record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables • To be able to report on findings from enquiries, including oral and written explanations of results and conclusions • To be able to use straightforward scientific evidence to answer questions or to support their findings • Recognise that they need light in order to see things and that dark is the absence of light • Notice that light is reflected from surfaces • Recognise that light from the sun can be dangerous and that there are ways to protect their eyes • Recognise that shadows are formed when the light from a light source is blocked by a solid object • Find patterns in the way that the size of shadows change