



St Bartholomew's Knowledge Organiser	Class 4	Science Summer Term – Year A	Light
What we will learn:		Science Knowledge:	
<p>In this unit you will learn:</p> <ul style="list-style-type: none"> ➤ To distinguish between sources of light and objects which reflect light. ➤ To demonstrate that light travels in straight lines. ➤ To plan, and write up, an investigation which explores how the size of shadows change. ➤ To draw diagrams which show how light travels. ➤ Explore the behaviour of light when reflected off mirrors. ➤ To make a periscope and explain how it works. ➤ Predict and explain, with diagrams or models as appropriate, how the shape of shadows can be varied. 		<ul style="list-style-type: none"> ➤ Recognise that light appears to travel in straight lines. ➤ Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. ➤ Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. ➤ Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. 	
Important Vocabulary		Scientific Skills we will develop:	
<p>Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous, straight lines, light rays</p>		<ul style="list-style-type: none"> ➤ Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary. ➤ Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. ➤ Record data and results of increasing complexity using scientific diagrams and labels, tables, bar and line graphs. ➤ Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. ➤ Use test results to make predictions to set up further comparative and fair tests. 	