Topic Name	Light
Big Question	How far can you throw your shadow?
Scientists to use	Justus Von Liebig, James Clark Maxwell, Hedy Lamarr
as examples	
Key Knowledge	<ul> <li>recognise that they need light in order to see things and that dark is the absence of light</li> </ul>
	<ul> <li>notice that light is reflected from surfaces</li> </ul>
	<ul> <li>recognise that light from the sun can be dangerous and</li> </ul>
	that there are ways to protect their eyes
	<ul> <li>recognise that shadows are formed when the light from a light source is blocked by an opaque object</li> </ul>
	<ul> <li>find patterns in the way that the size of shadows change</li> </ul>
Кеу	What might we want to know about daylight around the world?
investigational	Man-made vs natural light sources,
skills	Reflectors of light
	Light sources
	Written information about light patterns around the world.
	Graph showing about of light about each day.
	Pupils might work scientifically by: looking for patterns in what
	happens to shadows when the light source moves or the distance
	between the light source and the object changes.
Vocabulary	light, light source, Sun, sunlight, dangerous
Prior learning –	Explore how things work. (Nursery – Light)
what children	<ul> <li>Talk about the differences in materials and changes they</li> </ul>
should know	notice. (Nursery – Light)
	<ul> <li>Describe what they see, hear and feel whilst outside.</li> </ul>
	(Reception – Light)
	• Identify, name, draw and label the basic parts of the human
	body and say which part of the body is associated with each
	sense. (Y1 - Animals, including humans)
	• Describe the simple physical properties of a variety of everyday
	materials. (Y1 - Materials)
Future learning	Recognise that light appears to travel in straight lines. (Y6 - Light)
– next time they	• Use the idea that light travels in straight lines to explain that
will be learning	objects are seen because they give out or reflect light into the
	eye. (Y6 - Light)
μ	, , , ,

	<ul> <li>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. (Y6 - Light)</li> <li>Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them</li> </ul>
Visits	Opticians
Book links	What makes a shadow – Clyde Robert-Bulla