

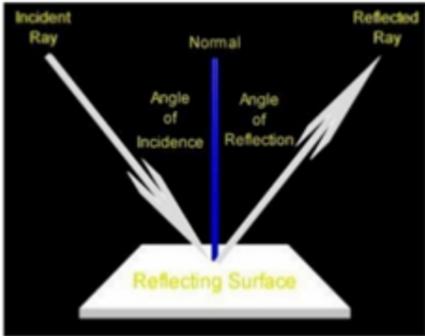
Light	Year 3 Spring 1
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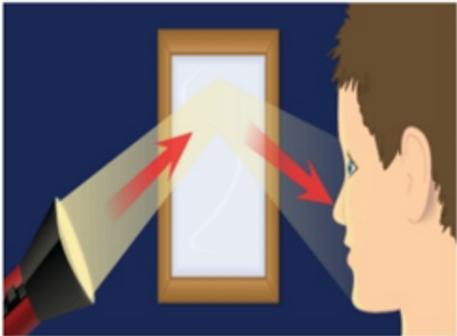
	Prior Knowledge	New Knowledge	Future Knowledge
Science	Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies. Describe the simple physical properties of a variety of everyday materials. (Y1) Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2)	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 an opaque object. Find patterns in the way that the size of shadows changes.	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. (Y6)
Art & Design	Andy Warhol Artist Study (Y2): To name colours- matching to the environment ( e.g. leaf green) To select different brushes for texture and detail. Introduce 'tints' by adding white and black to make lighter and darker. Use different techniques (e.g. dotting, scratching) to imitate an artist/style of art.	Steve McQueen Artist Study: To introduce the concept of scale and proportions. To use and name different media predicting the results.	Frida Kahlo Artist Study (Y4): To apply colours to create tonal effect, pattern and texture. To paint on a range of textures and surfaces.

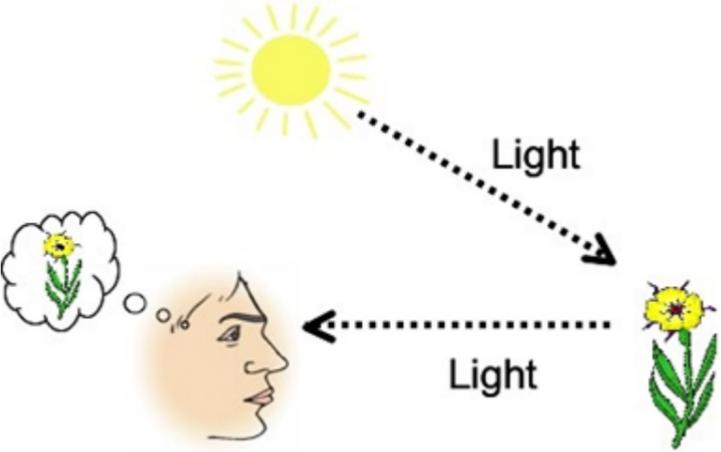
Key Questions	Key Individuals	Key Vocabulary
What is darkness?  What does reflection mean?  How and why can light from the sun be dangerous?  How are shadows formed?  What pattern can you identify in the way that the size of shadows change?	<b>Steve McQueen</b> (1969-) A British director, filmmaker and video artist. Creator of the <i>Year 3</i> exhibition at the Tate.  <b>Sir Isaac Newton</b> (1642 – 1727) discovered that light falling upon a prism could split into its component colours. Newton also invented the reflecting telescope.  <b>Lene Vestergaard Hau</b> (1959-) is the first scientist to completely stop light from travelling.	<b>Light source</b> - a natural (e.g. the sun) or artificial (e.g. a light bulb) provider of light. <b>Luminous</b> - radiating or reflecting light <b>Shadow</b> - A dark area or shape produced by a body coming between rays of light and a surface. <b>Translucent</b> - partly allowing light to pass through <b>Transparent</b> - allowing light to pass through. <b>Opaque</b> - not allowing light to pass through.

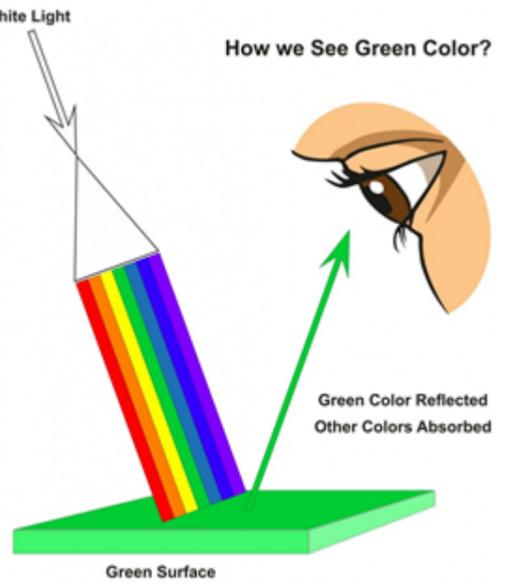
## Reflection :

### Light bouncing back from a surface









Year 3 will be exploring the topic: 'Light'. This unit of work will have a specific focus on developing the children's knowledge, skills and understanding in Science. They will also study the famous artist Steve McQueen.

Maths	English	Home
<p><b><u>Multiplication and Division</u></b></p> <ul style="list-style-type: none"> <li>Recognise related calculations</li> <li>Multiply a 2 digit number by 1 and 2 digits</li> <li>Divide a 2 digit number by 1 and 2 digits</li> <li>Division with remainders</li> <li>Solve problems involving scaling</li> </ul> <p><b><u>Measurement: Length and Perimeter</u></b></p> <ul style="list-style-type: none"> <li>Measure and compare lengths (m, cm and mm)</li> <li>Find and convert equivalent lengths</li> <li>Add and subtract lengths</li> <li>Measure and calculate perimeter</li> </ul> <p>Revisit and consolidation: 2 and 4 times tables</p> <p>Learning: 8 times table</p>	<p>We will be reading : 'The Firework Maker's Daughter' by Philip Pullman</p> <p><b>Genre:</b></p> <p><u>Narrative</u></p> <ul style="list-style-type: none"> <li>To create characters, setting and plot in narratives</li> <li>Write setting descriptions using a range of sentence structures and rich and varied vocabulary</li> <li>Use proofreading and editing skills to assess and evaluate the effectiveness of their own and other's writing</li> </ul> <p><u>Letters</u></p> <ul style="list-style-type: none"> <li>Learn the structure and features of letters</li> <li>Use correct layout and formal language</li> <li>Use imperative verbs and prepositions</li> <li>Create an extended version of Lila's letter to her father using emotive language</li> </ul> <p><u>Diary entry</u></p> <ul style="list-style-type: none"> <li>Learn the structure and features of a diary entry and write in first person.</li> </ul>	<p>Families can support learning in the following ways:</p> <ul style="list-style-type: none"> <li>Accessing weekly home learning tasks via Google Classroom</li> <li>Supporting the development of times tables skills via regular practice on Times Tables Rock Stars</li> <li>Find light sources and explore shadows</li> <li>Make shadow puppets</li> <li>Research Steve McQueen the artist and filmmaker</li> <li>Reading daily at home</li> <li>Accessing MyMaths for weekly maths homework</li> </ul>