

Objective	Milestone Indicators	Basic Activities	Advanced Activities	Deep Activities	Resources
To understand light and seeing.	<p>Milestone 3 Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyes.</p>	<p>On Worksheet 2B, children fill in the labels for the eye using the words in the word box to fit in with the partial labels on the diagram. Children then answer the questions about how the eye sees light.</p>	<p>On Worksheet 2C, children label the diagram of the eye, using books, the internet, etc. to find out the information. Children then use their research to help them describe what each part of the eye does.</p>	<p>Provide children with books, access to the internet, etc. and ask them to find out more about how eyes work and how we see things through light entering the eye. Provide children with Challenge Cards and ask them to choose the one they think most reflects their preferred learning style (drawing a labelled diagram, writing an information booklet, creating a mind map or writing a song or poem). Children complete their challenge using the information they have found out.</p>	<p>Powerpoint slides Worksheets 2B and 2C Books Access to internet Challenge Cards</p>

<p>To understand light and seeing.</p>	<p>Milestone 3 Understand that light appears to travel in straight lines.</p>	<p>Provide children with Worksheet 3A, a torch, a piece of white paper and a mirror. Children place the torch on the piece of paper facing the mirror. Give them some time to investigate what happens to the beam of light shining at the mirror when the mirror is moved to a different angle and then draw the light beams on the worksheet.</p>	<p>Provide children with Worksheet 3B, a torch, a piece of white paper and a mirror. Children place the torch on the piece of paper facing the mirror. Give them some time to investigate what happens to the beam of light shining at the mirror when the mirror is moved to a different angle and then complete the challenges on the worksheet to draw in mirrors to direct a light beam to the goals.</p>	<p>Challenge children to make a periscope using mirrors. Provide children with cardboard tubes, two mirrors, masking tape, a protractor and scissors. Give them some time to think about how they could construct their periscopes and how mirrors behave before working in pairs to construct their periscopes. When they have finished, challenge children to see if they can use their periscopes to see under a table and around a corner. Give children time to present their findings to the rest of the class. Does your periscope work? How did you construct it? Could you make any adjustments?</p>	<p>Powerpoint slides Worksheets 3A and 3B Mirrors White paper Torches Equipment for making periscopes</p>
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<p>To understand light and seeing.</p>	<p>Milestone 3 Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyes.</p>	<p>On Worksheet 4A, children find the objects listed on the worksheet to see if they can see their faces in the surface to find out if they are reflective or not. Children record their findings on the worksheet and then answer the questions.</p>	<p>On Worksheet 4B, children find 15 different surfaces and test whether they are reflective by seeing if they can see their face in each surface. Children record their findings on the worksheet and then answer the questions.</p>	<p>Children find 15 different surfaces and test whether they are reflective by seeing if a torch beam is reflected off the surface, predicting which they think will and which won't. Children record their findings.</p>	<p>Powerpoint slides Worksheets 4A and 4B Torches</p>
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Mrs Cairns

Class 3 (Y5/6)