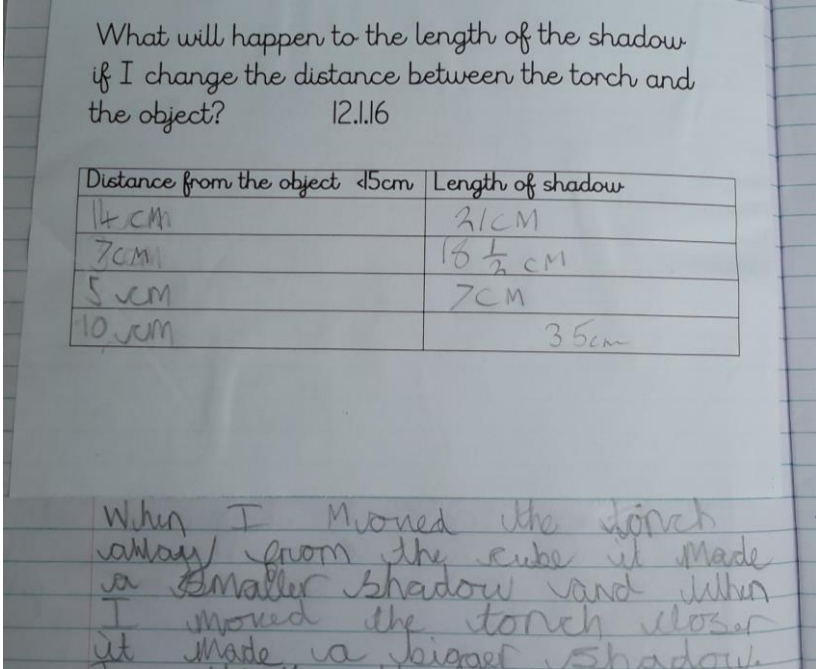


<b>Topic:</b> Light	Year 3 Age 7-8	Title: Shadow investigation										
<b>Working Scientifically Focus</b> <b>Review:</b> reporting on findings from enquiries		<b>Conceptual Knowledge Focus</b> find patterns in the way that the size of shadows change										
<p><b>Example</b></p> <p>Children were asked to investigate what happens to the size of the shadow when the distance between the torch and the object is changed. They were given a table outline to record their results and could choose their own distances to test.</p>  <p>What will happen to the length of the shadow if I change the distance between the torch and the object? 12.1.16</p> <table border="1" data-bbox="459 981 1129 1167"> <thead> <tr> <th>Distance from the object &lt;math&gt;&lt; 5\text{cm}&lt;/math&gt;</th> <th>Length of shadow</th> </tr> </thead> <tbody> <tr> <td>4 cm</td> <td>2 cm</td> </tr> <tr> <td>7 cm</td> <td><math>16\frac{1}{2}</math> cm</td> </tr> <tr> <td>5 cm</td> <td>7 cm</td> </tr> <tr> <td>10 cm</td> <td>35 cm</td> </tr> </tbody> </table> <p>When I moved the torch away from the cube it made a smaller shadow and when I moved the torch closer it made a bigger shadow.</p> <p>Children meeting the objective would be able to identify and describe any pattern they found when changing the distance e.g. <i>the further away, the smaller the shadow</i>. Some children could go further to explain why the shadow changed in this way.</p>			Distance from the object <math>< 5\text{cm}</math>	Length of shadow	4 cm	2 cm	7 cm	$16\frac{1}{2}$ cm	5 cm	7 cm	10 cm	35 cm
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<p style="text-align: right;">Example from Shaw Primary School, Melksham</p>												