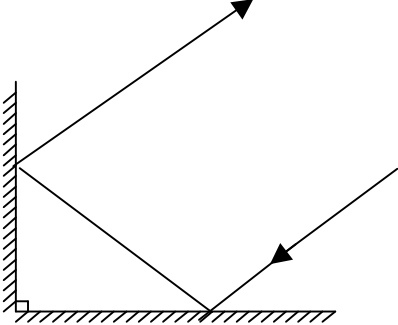
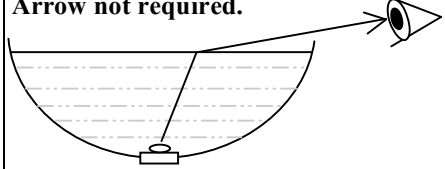
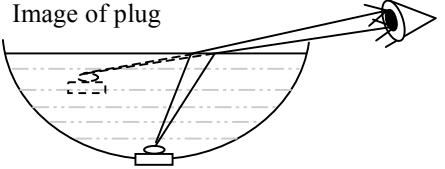
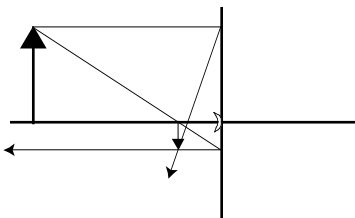
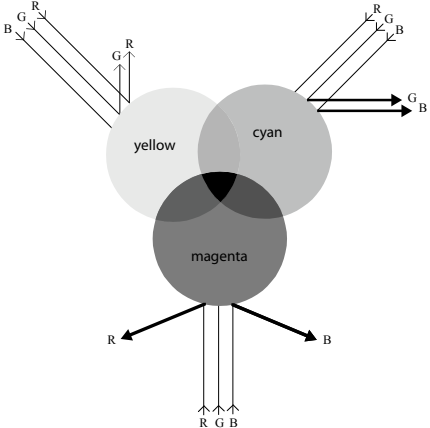


Assessment Schedule – 2006**Science: Use physics concepts and principles to describe the behaviour of light (90768)****Evidence Statement**

1 (a)	 <p>Reflected angle = incident angle ($\pm 1^\circ$) for both reflections and 2nd reflected ray is parallel to initial incident ray.</p>		
(b)	> 90° light rays will reflect out OR not cross each other. OR diagram correct to support answer	> 90° light rays will reflect out AND not cross each other. OR diagram drawn correctly to support answer.	
(c)	<ul style="list-style-type: none"> The images are as far behind the mirrors as Darryl is in front OR the images are virtual OR images 1 and 2 are laterally inverted. 	<ul style="list-style-type: none"> The images are as far behind the mirrors as Darryl is in front AND/OR the images are virtual AND/OR images 1 and 2 are laterally inverted (2 points made). 	
(d)	Image 3 is due to two reflections OR it is the image of Image 1 in mirror 2 OR the image of Image 2 in mirror 1.	Two correct responses required. Image 3 is due to two reflections; AND/OR it is the image of Image 1 in mirror 2 AND/OR the image of Image 2 in mirror 1.	Three correct responses required. Image 3 is due to two reflections; AND it is the image of Image 1 in mirror 2 AND the image of Image 2 in mirror 1.
2 (a)	Light ray(s) from water refract / bend at interface OR away from normal.	The empty basin's edge obstructs the view of the plug-hole AND when filled with water, light rays from the plug bend towards the eye (or away from normal or around edge) to make it visible.	
(b)	<p>Arrow not required.</p> 	<p>Image of plug</p>  <p>Diagram showing real rays correct in water and air AND virtual rays correct OR image of plug in correct position. (arrows not required)</p>	

3 (a)	<p>Light from the Sun reflects off the concave spoon to form a focus.</p> <p>OR</p> <p>Since the Sun is far away its rays are parallel AND therefore the spoon-paper distance is the spoon's focal length.</p>	<p>Light from the Sun reflects off the concave spoon to form a focus.</p> <p>AND</p> <p>Since the Sun is far away its rays are parallel and so the spoon-paper distance is the spoon's focal length.</p>	
(b)	 <p>Object in correct position AND focal point inserted correctly AND at least one light ray drawn accurately.</p>	<p>Object in correct position AND focal point inserted correctly AND two rays drawn accurately AND image shown correctly.</p>	<p>ALSO image size correct (11 ± 1 mm) AND nature of image real, diminished, inverted (at least two) described AND image distance = 22 ± 1 mm in front of mirror.</p> <p>Rays must have arrows</p>
4 (a)	 <p>Two reflected rays correct from one of at least of either Cyan or Magenta OR correct labelling.</p>		
(b)	<p>One colour; Red, Green or Blue, is explained correctly, eg:</p> <p>Red is created when Yellow and Magenta are mixed because then both Blue (because of the yellow) and Green (because of the Magenta) are subtracted / absorbed and only the Red is reflected.</p> <p>Yellow + Magenta = White – Blue – Green = Red</p> <p>Green is created by mixing Yellow and Cyan (Blue and Red are subtracted leaving only Green).</p> <p>Yellow + Cyan = White – Blue – Red = Green</p> <p>Blue is created by mixing Cyan and Magenta (Red and Green are subtracted leaving only Blue).</p> <p>Cyan + Magenta = White – Red – Green = Blue.</p>	<p>Two of the colours Red, Green or Blue are explained correctly.</p>	<p>All three colours; Red, Green and Blue, are explained correctly.</p>

Science: Use physics concepts and principles to describe the behaviour of light (90768)

Achievement	Achievement with Merit	Achievement with Excellence
FIVE questions answered correctly. Minimum of $5 \times A$	SIX questions answered correctly, including at least THREE at Merit level. Minimum of $3 \times M + 3 \times A$	SIX questions answered correctly, including at least ONE at Excellence level and at least THREE at Merit level. Minimum of $1 \times E + 3 \times M + 2 \times A$