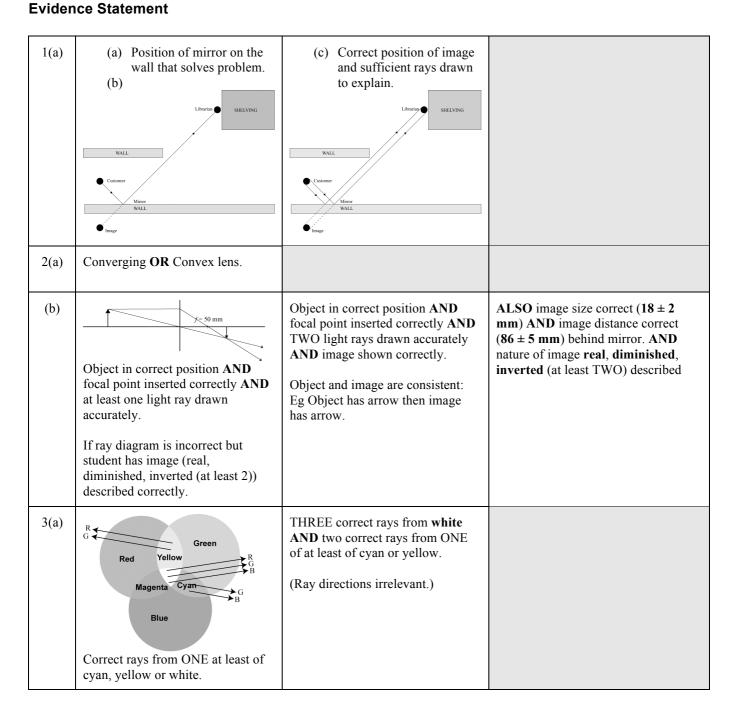
## Assessment Schedule - 2007

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



(b)	Colours of at least THREE parts correct.  1 no colour/black 2 green 3 blue 4 cyan 5 cyan		
(c)	Filters absorb certain selected colours / wavelengths <b>OR</b> allow other colours / wavelengths of light to travel through.	Filters absorb certain selected colours / wavelengths AND allow other colours / wavelengths of light to travel through.  One correct example of a blue, green or red filter given.	Filters absorb certain selected colours / wavelengths AND allow other colours / wavelengths of light to travel through.  A red filter absorbs blue and green wavelengths but red can pass through.  A blue filter absorbs red and green wavelengths but blue can pass through. A green filter absorbs red and blue wavelengths but green can pass through.  THREE examples correct.
4(a)	Both diagrams correct.  OR  (ii)  The light rays strike the surfaces of the prisms at angles of incidence greater than the critical angle of the glass-air interface. Therefore the light rays reflect rather than refract.	Both diagrams correct.  AND  (ii)  The light rays strike the surfaces of the prisms at angles of incidence greater than the critical angle of the glass-air interface. Therefore the light rays reflect rather than refract.	
(b)	Refraction at both interfaces. Spectrum produced.	Correct Refraction at both interfaces. Spectrum produced.  AND  Violet refracts more than red/red refracts less than violet.	Correct Refraction at both interfaces. Spectrum produced. AND Violet refracts more than red/red refracts less than violet. BECAUSE Different colours travel at different speeds. OR the refractive index is different for different colours.

## **Judgement Statement**

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