

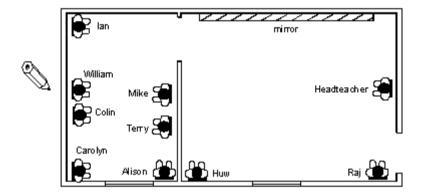
Science Quick Quiz

Year 6 Light

Name:	Date:

Q1. Sun and Light

This is a plan of a room.



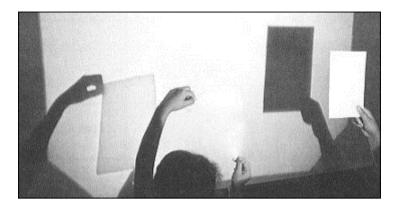
There is a mirror on the wall.

The Headteacher can see only Huw, Raj and Ian, without looking in the mirror.

(a)	Draw ar	arrow on the picture to show how light travels from Raj to the Headteacher.	1 mark
(b)	Which 1	TWO people can the Headteacher see only by reflection in the mirror.	
· Co	(i)		1 mark
4	(ii)		1 mark
(c)	Which T	WO people can Colin see only reflected in the mirror?	
نورد	(i)		1 mark
نورد	(ii)		1 mark

Q2. Shadows

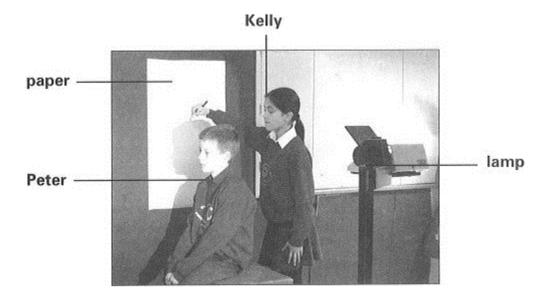
(a) Two children hold some objects between a lamp and the wall.



They see that cardboard makes a **dark** shadow and a plastic sheet makes a **faint** shadow. Explain why the shadows are different.

4		
		 1 mark
(b)	Tick TWO objects which make a faint shadow.	
4		
	a wooden toy	
	a piece of tracing paper	
	a book	
	a mirror	
	a clear plastic cup	

(c) Kelly is drawing around Peter's shadow.



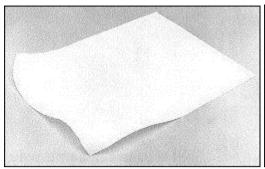
How could Peter make the shadow of his head bigger?

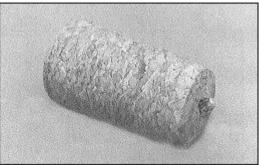
Tick **TWO** boxes.

	· Ca				
	move closer to the paper		move closer to the lamp		
	use a bigger lamp		use a brighter lamp		
	move the lamp closer		move the lamp further away		
					1 mark
(d)	Explain how Peter's shadow i	s formed o	on the paper.		
4					
				•••••	1 mark

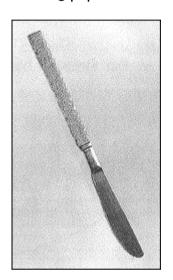
Q3. Light

(a) Ian shines a torch onto some objects to see what happens to the light.



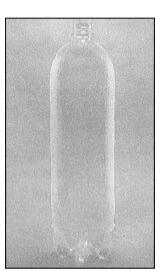


tracing paper



metal knife

bottle cork



clear plastic bottle

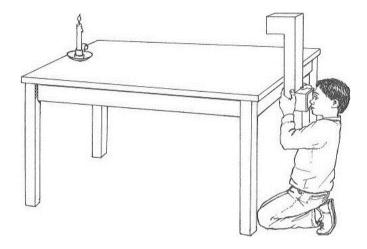
Write the name of ONE object to complete each of these sentences.

Only use the name of an object once.



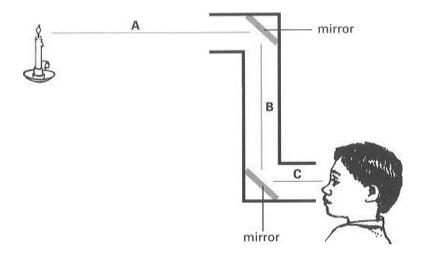
- (i) The light went through the
- (ii) The light made thelook shiny.
- (iii) The light made the make a dark shadow.

(b) Ian has made a periscope with two mirrors and some card.



Periscopes let you see over the top of things.

lan can see the candle by looking through the periscope.



Show the directions light travels to allow him to see the candle.

Draw **ONE** arrowhead on **EACH** of the lines **A**, **B** and **C**.

Q4. Light



(a) The girl is looking at the large mirror in front of her. She can see the reflection of the back of her head. The hairdresser is holding a small mirror.

An arrow has been drawn to show the direction of some light.

Draw **TWO** more **arrows** to show how the girl can see the reflection of the back of her head.

2 marks



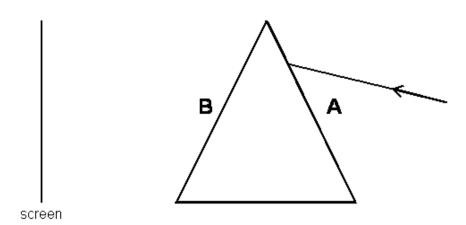
(b) The scissors look shiny.

Why do scissors look shiny? Tick ONE box.



Light passes through them.	
They are sharp.	
They reflect light.	
They give out light.	

Q5. (a) The diagram shows a beam of white light shining onto a glass prism.



(i) Draw on the diagram what happens to the beam of light as it passes from surface A to surface B.

1 mark

(ii) Write a description of what happens.



1 mark

(b) (i) Draw on the diagram what happens to the beam of light as it passes from the glass prism into the air and beyond B.

1 mark

(ii) Write a description of what can be seen on the screen when the beam of light passes through the prism.

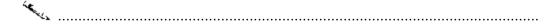


1 mark

Q6. (a) The diagrams below show a kingfisher looking at a fish under the water.

Light changes direction as it travel from water into air.

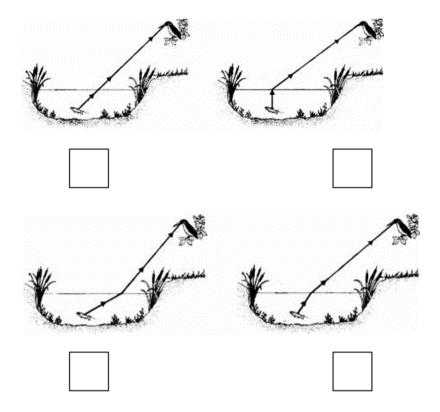
What is this effect called?



1 mark

(b) Which diagram correctly shows how a ray of light from the fish reaches the kingfisher?

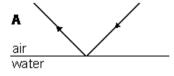
Tick **ONE** box

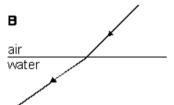


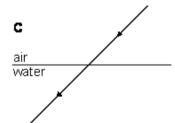
1 mark

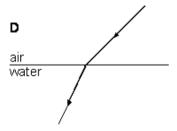
(c) Draw a circle around the diagram which shows how a light ray travels from air into water.













Assessment Summary		
Total Mark	/21	
Below Expectations		
Below 8 marks		
Expectations		
Between 8-15 marks		
Above Expectations		
Above 15 marks		