

Name: \_\_\_\_\_

1 Answer true or false to the following questions. Justify your answer by copying out a sentence from the text.

a Sir Isaac Newton created a fair test to make sure that nothing else was causing the colours during his experiments.

True

False

b Green light is on the outer edge of the light spectrum.

True

False

c A black object will reflect black light back to our eyes.

True

False

d Violet light has a shorter wavelength than red.

True

False

2 Complete the 'word find' about light using the clues provided.

k a l r l e r l h t d q h d r b r w p a  
c c x m s l h g d t r e x e b r e h n u  
w a v e s b o g b c g a t g w o f i t y  
s t n e m i r e p x e n n a m s l t w s  
v e u s b s d c c i i b e s c b e e w n  
w f i l o i z g g l i n m l m a c c e i  
d r a a o v y f p a e p h c e i t w d f  
p c w d w n q s p e c t r u m v t g n j  
k t e l o i v n v k d c m l i o a w i q  
y q o o l r x o s i t p x w n d c w z g

a Sunlight around us seems ... \_\_\_\_\_

b The surname of the man who discovered the spectrum within white light \_\_\_\_\_

c To see the spectrum you need to \_\_\_\_\_ white light.

d The object that separates white light into seven colours \_\_\_\_\_

e A way of testing ideas \_\_\_\_\_

f A range \_\_\_\_\_

g The colour light with the shortest wavelength \_\_\_\_\_

h The way light travels \_\_\_\_\_

i Each colour light has a different ... \_\_\_\_\_

j Some materials \_\_\_\_\_ some colours so you don't see them.

k A word that means to 'bounce' light \_\_\_\_\_

l Clear materials don't reflect or absorb light – they \_\_\_\_\_ it.

m The colour you see when the full spectrum is reflected back. \_\_\_\_\_

n The colour you see when the full spectrum is absorbed. \_\_\_\_\_

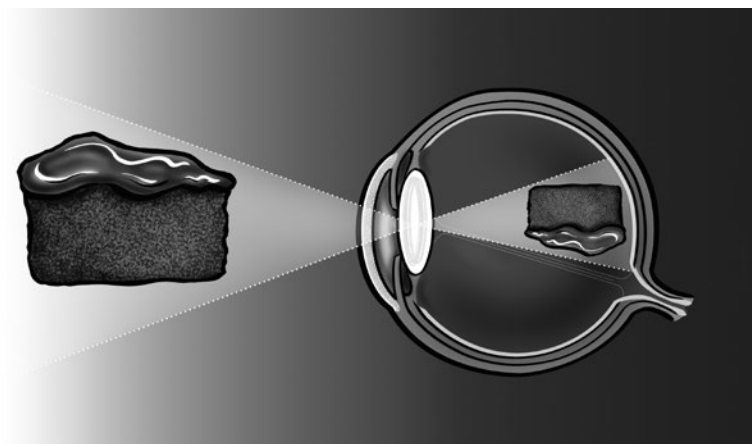
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- 1 Use the words in the box below to complete the explanation about

<i>reacts</i>	<i>tanned</i>	<i>broken</i>	<i>layers</i>	<i>extra</i>	<i>paler</i>
	<i>saved</i>	<i>darker</i>	<i>surface</i>	<i>exposure</i>	

Melanin is found deep in the \_\_\_\_\_ of everyone's skin. As it rises towards the \_\_\_\_\_ of the skin, it \_\_\_\_\_ with other chemicals. When it reaches the top layers of skin, it either gets \_\_\_\_\_ by those cells or is \_\_\_\_\_ down by them. People with \_\_\_\_\_ skin tones have skin cells that save the melanin, while people with \_\_\_\_\_ skin have cells that break it down. \_\_\_\_\_ to sunlight makes your skin produce \_\_\_\_\_ melanin to protect itself. This is what makes pale-skinned people look \_\_\_\_\_.

- 2 Label the diagram to explain the function of each part of the eye. Write a number for each label that helps the reader follow the diagram. You should refer to the text on page 14 that provides the explanation. Remember to use your own words.



- 3 To write the weather report for Chapter 7, the author has included an explanation and some dialogue that addresses the audience. Select a paragraph and edit the text to reveal the basic explanation. For example:

~~"Good evening viewers! Welcome to the weather report. Didn't we have some colourful weather today! To begin, did you notice the sunrise early this morning? When the sun gets close to the horizon, it has a much thicker layer of atmosphere to shine through than it does at lunchtime. You'll notice the yellow light waves get blocked easily by that extra bit of atmosphere. Luckily those glorious red and orange waves get through just fine and colour the sky for us. Perfect conditions for those early morning balloon enthusiasts."~~