

Colour

1. a) The following statements describe the path of white light as it passes through a glass prism and strikes a screen. They are in the wrong order. Arrange them correctly by writing the letter of each statement in the order in which it occurs.

A Dispersion occurs

B Spectrum forms on a screen

C Light rays leave source of white light

D Refraction from air to glass

E Light rays travel in separate through the air

F Refraction from glass to air

b) Where do you need to stand in relation to the sun to see a rainbow when it rains?

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2. When a sun shines on a blue flower, which colours are absorbed by its petals?

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3. Sari looks at a slide of leaf cells under a microscope. She sees the green chloroplasts but needs to make them easier to see. She puts a red filter over the slide and looks again.

a) i. How does the view of the cells change?

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ii. Explain your answer.

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4. Rahul is working with filters on the school stage. The left-hand column of the table shows the light needed on stage. Fill in the right hand column to help him make the correct response.

Stage requirement	Filters needed
White light	
Blue Light	
Yellow Light	
Cyan Light	

5. Clare is painting a picture but only has three paints- yellow, magenta and cyan.

a) How can she get a red colour?

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b) How can she get a green colour?

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c) How can she make black paint?

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d) What happens to the light that strikes the black paint?

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