Colored Filters

Activity 1: Light Passage

Question Group 1

Question 1
Red, green, and blue light is incident on a red filter. Which of these light colors will pass through the filter?

Question 2
Blue, red, and green light is incident on a red filter. Which of these light colors will pass through the filter?

Question 3
Green, blue, and red light is incident on a red filter. Which of these light colors will pass through the filter?
Question Group 2

Question 4
Red, green, and blue light is incident on a green filter. Which of these light colors will pass through the filter?

Question 5
Blue, red, and green light is incident on a green filter. Which of these light colors will pass through the filter?

Question 6
Green, blue, and red light is incident on a green filter. Which of these light colors will pass through the filter?
Question Group 3

Question 7
Red, green, and blue light is incident on a blue filter. Which of these light colors will pass through the filter?

Question 8
Blue, red, and green light is incident on a blue filter. Which of these light colors will pass through the filter?

Question 9
Green, blue, and red light is incident on a blue filter. Which of these light colors will pass through the filter?
Question Group 4

**Question 10**
Red, green, and blue light is incident on a cyan filter. Which of these light colors will pass through the filter?

**Question 11**
Blue, red, and green light is incident on a cyan filter. Which of these light colors will pass through the filter?

**Question 12**
Green, blue, and red light is incident on a cyan filter. Which of these light colors will pass through the filter?
Question Group 5

Question 13
Red, green, and blue light is incident on a magenta filter. Which of these light colors will pass through the filter?

Question 14
Blue, red, and green light is incident on a magenta filter. Which of these light colors will pass through the filter?

Question 15
Green, blue, and red light is incident on a magenta filter. Which of these light colors will pass through the filter?
Question Group 6

Question 16
Red, green, and blue light is incident on a yellow filter. Which of these light colors will pass through the filter?

Question 17
Blue, red, and green light is incident on a yellow filter. Which of these light colors will pass through the filter?

Question 18
Green, blue, and red light is incident on a yellow filter. Which of these light colors will pass through the filter?
Activity 2: Color the Screen
Question Group 7
Question 19
Red, green, and blue light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?

Question 20
Red, green, and blue light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?
Question Group 8
Questions 21
Red, green, and blue light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?

Questions 22
Red, green, and blue light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?
Question Group 9
Questions 23
Red, green, and blue light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?

Questions 24
Red, green, and blue light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?
Question Group 10
Questions 25
Magenta light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?

Questions 26
Magenta light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?
Question Group 11
Questions 27
Yellow light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?

Questions 28
Yellow light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?
Question Group 12
Questions 29
Cyan light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?

Questions 30
Cyan light is incident upon two different color filters. The light passing through the filters and illuminates a white screen. What will be the color appearance of the screen?
Activity 3: Name That Filter

Question Group 13

Question 31
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?

Question 32
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?
Question Group 14
Question 33
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?

Question 34
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?
Question Group 15

Question 35
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?

Question 36
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?
Question Group 16
Question 37
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?

Question 38
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?
Question Group 17
Question 39
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?

[Diagram]

Question 40
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?

[Diagram]
Question Group 18

Question 41
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?

Question 42
A person is viewing a pattern of colored circles. The light from the pattern passes through a filter on the way to the person’s eyes. The appearance of the pattern is shown. What type of filter is the light passing through?