

The Lighter Side of Color

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Part I

Go to the **Lighter Side of Color** slideshow (<http://www.thetech.org/exhibits/online/color/light/>), on the Tech Museum of Innovation. Navigate through the slideshow by clicking on the link within the text of each slide. Stop after you read the slide titled, **Light Bouncing off Paper**. As you read the slides, answer the following questions:

1. What happens when you mix colors?
2. What do dyes (pigments) do in terms of letting light through?
3. How do filters work?
4. Now think of light other than white light. What happens if you pass magenta light through a red filter?
5. Give an example from the reading where a colored filter blocked light completely.
6. How do fluorescent dyes work?
7. What are some “sources” of light?

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8. What happens when you look at an object in different light?

9. In what ways can light be reflected when it hits a surface? Include diagrams of light reflecting off of a smooth, rough, and in-between surface.

10. Explain why you sometimes get a glare when reading a magazine.

11. Would it be possible for dyes to absorb all of the light hitting a piece of paper? If so, what color would that paper be?



Wait for your teacher to discuss what you just learned.

Part II

You have been given a mirror, a piece of metal, a piece of colored paper, and a piece of black paper. Carefully examine each item.

1. When you look at each item, what do you see?

2. Which ones reflect light?

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3. Do they reflect light the same way? Explain. How did each object reflect the light?

4. Which objects absorb light?

5. Which colors were reflected from the piece of colored paper? Which were absorbed?

6. Do any of the objects produce light?

7. If they do not produce light, how can we see them?

8. The light that is hitting the surface of the colored paper is white; why does the paper look the color that it is?