



Color and Light

Recommended Age: 3 and up

Everything you need to have fun science explorations and observations about the properties of light! Discover what rainbows are, what happens when you blend two colors, and how light reflects, bends, and makes shadows.





Contents List

- **Book: Mix it Up by Herve Tullet**
- **Book: I See Myself by Vicky Cobb and Julia Gorton**
- **Color Discovery Tubes**
 - 1 blue and yellow tube
 - 1 red and yellow tube
 - 1 blue and red tube
 - 1 guide
- **Can Do! Science Kit**
 - 1 flashlight
 - 6 suggestion cards
 - 2 plastic card holders
 - 4 color paddles
 - Red
 - Green
 - Blue
 - Yellow
 - 2 reflective cardboard pieces
 - 1 plastic bear
- **“The Light Crystal” Pack**
 - 1 long prism
 - 1 medium prism
 - 1 booklet
 - 1 “right angle” prism
 - 1 “The Right Angle Prism” booklet
- **Color paddles**
 - 2 red
 - 2 orange
 - 2 yellow
 - 2 green
 - 2 light blue
 - 2 dark blue



Steam Kit: Color and Light
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Getting Started Guide

This kit contains many different supplies you can use to conduct experiments with light.

“The Light Crystal” Pack:

The prism set comes with some activity suggestions from Tedco Toys.

Here are some questions you can ask your child while playing with the prisms:

What happens if we hold this prism over a striped colorful pattern? What patterns does the light make? Light bends and moves at different angles through objects like prisms. Can you think of other objects that bend light? What about a glass of water or a kaleidoscope?

Make a rainbow with a prism in a darkened room. If the prism gets closer to the light source, what happens? What happens if we pull it farther away?

If white light can become a rainbow, can a rainbow become white light? Take two prisms and shine a light so that the light will move to one prism and then the other. See what happens!

The color discovery tubes and color paddles can be used to talk about color blending. What happens when two colors are mixed together? Read the book *Mix It Up!* For a fun introduction to this concept.



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Getting Started Guide (cont.)

The “Can do!” Science kit:

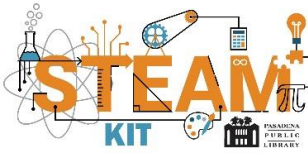
The Can-Do! Color & Light Discovery Kit comes with six sample science experiments you can try.

Here are some questions you can ask:

If you put two mirrors together at an angle, and place one object in front of them, how many reflections will you see? One reflection? Two? Three? Four? What if you change the angle of the mirrors?

If you shine a flashlight on a toy, it will make a shadow, right? What if you hold a color paddle over the flashlight? Will the shadow change color? What if you use two flashlights—how many shadows will there be, and what colors will they be?

Have lots of fun exploring light with this kit!



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Additional Information

When returning the kit, please check if all contents are in the box. If something is missing, please inform staff.

For a full list of available Pasadena Public Library STEAM Kits visit our website at:

<https://www.cityofpasadena.net/library/steam/#steam-kits>