



Name:

Date:

## Student Exploration: Subtractive Colors

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

*[NOTE TO TEACHERS AND STUDENTS: This lesson was designed as a follow-up to the Additive Colors Gizmo. We recommend you complete that activity before this one.]*

**Vocabulary:** absorb, CMY value, complementary color, cyan, magenta, primary colors, reflect, RGB value, secondary color, subtractive color, transmit

### Prior Knowledge Questions

(Do these BEFORE using the Gizmo.)

A color printer can print any color by mixing three **primary colors** of ink: **cyan** (light blue), **magenta** (bright pink), and yellow.



1. What color do you think you would get if you mixed cyan and magenta?
2. What color do you think you would get if you mixed cyan and yellow?
3. What color do you think you would get if you mixed magenta and yellow?

Red

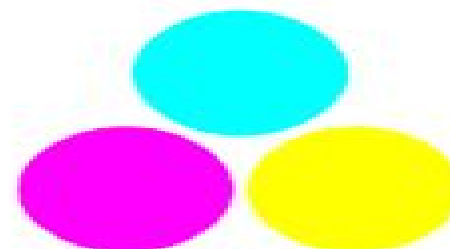
Green

Blue

### Gizmo Warm-up

We see objects when light from that object enters our eyes. Some objects produce their own light, while others **transmit** or **reflect** light. The *Subtractive Colors* Gizmo allows you to explore how light is **absorbed** and reflected by colored pigments such as paint.

Three primary colors of light—red, green, and blue—combine to make white light. Turn on **Show RGB values at the mouse location** to see how much red, green, and blue is in each color.



1. Move the cursor over a white area.

What is the **RGB value** of white? 255,255,255

2. Move the cursor over the cyan circle.

What is the RGB value of cyan? 0,255,255

3. Assume the cyan circle is a painted spot that is illuminated by white light. Some of the white light is absorbed by the cyan pigment, and some is reflected into your eyes.

A. What colors of light are reflected by the cyan spot?

Blue and Green

B. What color of light is absorbed by the cyan spot?

Red

# Gizmo Subtractive Colors Gizmo Answers

**N Noddings**



### **Gizmo Subtractive Colors Gizmo Answers:**

**Gadgets and Gizmos** Mark Kistler, 2003-08 The popular TV cartoonist teaches kids how to draw goofy cartoon gadgets and gizmos in three dimensions with easy to follow steps and secret tips Illustrations

## Unveiling the Magic of Words: A Overview of "**Gizmo Subtractive Colors Gizmo Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Gizmo Subtractive Colors Gizmo Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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