



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

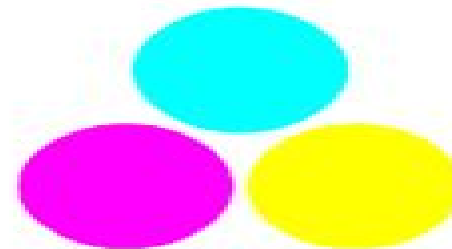
Green

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

Victor M. Corman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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