

# 光盒

Light Box  
Wonders

# 作用

## Overview

“Light Box Wonders” is an inspiring optical color education program created for children by the international art team Carnovsky. The exhibition is based on three main themes: “How Vision Works,” “How Colors Are Formed,” and “How Light and Colors Are Formed.” Through hands-on light and shadow experiments and interactive activities in aesthetic education, children will learn about the principles of color in printing and optics, and discover the relationship between vision and light.

As children follow Carnovsky’s scientific images, they will embark on a dazzling visual journey. Whether it’s lifelike wild animals, lush natural landscapes, or breathtaking scenes of soaring above the clouds and diving into the deep sea, these wonders are hidden within layers of overlapping visuals, waiting to be uncovered.

## Taoyuan Children’s Art Center

No. 90, Sec. 2, Gaotie S. Rd., Zhongli Dist., Taoyuan City

Wednesday - Monday 9:30 - 17:00 (Closed on Tuesday)



Organizer

桃園市立美術館  
TAOYUAN MUSEUM OF FINE ARTS

桃園市兒童美術館  
TAOYUAN CHILDREN'S ART CENTER

Special Thanks

*carnovsky*

Advisory Organization

桃園市政府  
TAOYUAN CITY GOVERNMENT

桃園市議會  
TAOYUAN CITY COUNCIL

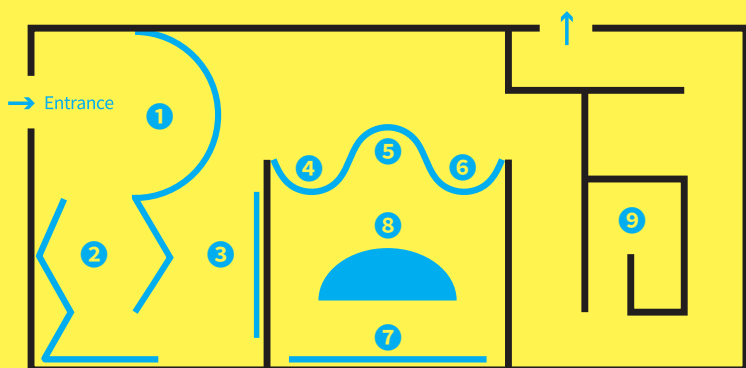
桃園市政府文化局  
DEPARTMENT OF CULTURAL AFFAIRS, TAOYUAN

2024.9.14 SAT. - 11.17 SUN.  
桃園市兒童美術館  
Taoyuan Children's Art Center

## Light Box Adventure Map

Entering the world of art often begins with understanding color. But have you ever wondered why our world is full of color? From a scientific perspective, the formation of color vision involves the physical properties of light as well as the visual and neurological processes in our eyes and brain. Follow the route we've prepared and embark on the journey to explore the world of color.

1F



1 Atmospheric

2 Kaleidoscope Tunnel

3 Kaleidoscope Workbench

4 How Colors Are Formed

5 How Vision Works

6 How Light is Formed

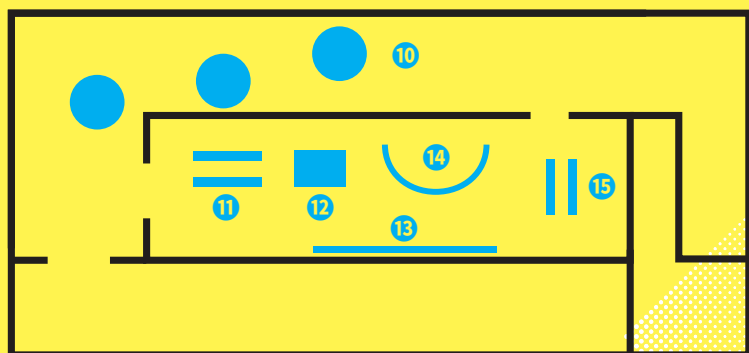
7 Giant Mural – Jungle

8 Color Light Palette

9 Explore the Maze

After exploring the knowledge of color, you've surely discovered its secrets. In this section, color transforms into various materials and forms, allowing you to see their unique languages and expressions, as well as the visual stories they unfold in Carnovsky's picture books. The art center has also collaborated with children to co-create the "Ecology Box of the Pond" exhibit, drawing inspiration from the local landscape and the concept of the "Light Box." This project imagines the underwater world and ecology of Chintan Park as a colorful soundscape.

## 2F



10 Color Egg Hunt

13 RGB Shadow Theater

11 Reading Area

14 Ecology Box of the Pond

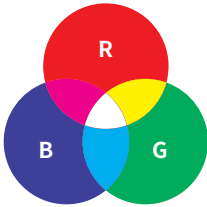
12 Light Box Planet

15 Light Workshop

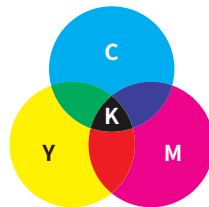
## Secrets of Light and Color

The color system often used in printing is called “CMYK,” which stands for **Cyan**, **Magenta**, **Yellow**, and **Black**. These four inks work together to create colors. Let’s explore what each one does!

RGB Color model



CMYK Color model



### Cyan

Absorbs red light and reflects green and blue light.



### Magenta

Absorbs green light and reflects red and blue light.



### Yellow

Absorbs blue light and reflects red and green light.



### Key (Black)

Adds depth and darkness, making gray areas more saturated.



Did you notice? By carefully mixing these four ink colors, you can accurately create a wide range of colors, bringing vibrant images to life!