

A Ray of Light

A RIF GUIDE FOR EDUCATORS

Themes: Art, Nature, Perception, Photography

Grade Level: Kindergarten to 5th grade

Book Brief: Have you ever wondered what light is made of and how it fits alongside everything else in the world? This book introduces the mystery behind incandescence, light waves, the color spectrum, and iridescence as well as how we perceive light in our world and beyond.

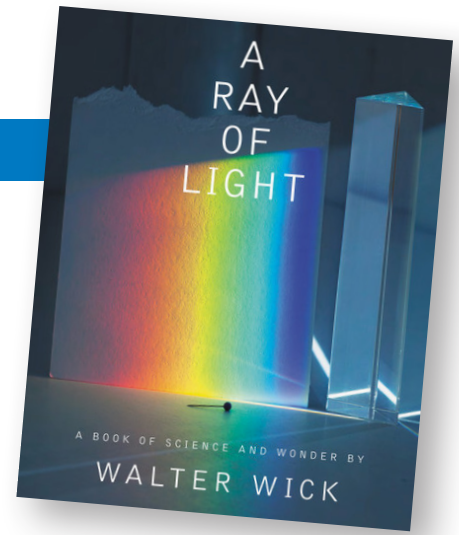
Content Connections: Art, Engineering, Science

Author:

Walter Wick

Photographer:

Walter Wick



TIME TO READ!



BEFORE WE READ LET'S LOOK AT...

The Cover: Based on the title and cover picture, do you think this book is a story or an informational text? Why? What do you think we will learn about as we read?

The Pictures: Flip through the pages and observe the photographs. What can we learn about light by only looking at the photographs? Have students describe what they see and predict what information they may learn on each page.

Prior Knowledge: What do you know about light? Make a KWL (Know, Want to Know, Learned) chart on the board and fill out the first two columns as a group.

Vocabulary: Atoms, Matter, Energy, Light Waves

Purpose for Reading: As we read, focus on what information you can learn from the photographs and what information you can learn from the words.

WHILE WE READ

MONITORING FOR COMPREHENSION

- Where does light come from?
- How does frequency influence color?
- What happens when light hits an object at an angle?
- Where are some places pigments can come from?
- What are microscopes used for?
- How do we know what the sun is made of?

LET'S THINK ABOUT

Our Purpose: “In this book we can learn information from the photographs and the words. What are some things you learned from the photographs? What are some things you learned from the words? How do both of these help you understand the book?” As a class, fill in the “Learned” section of the KWL chart with the new information you learned about light.

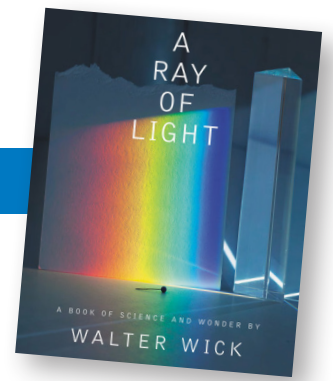
Extending Our Thinking: Humans use light in their everyday lives. With a partner, think of three ways you have used light today. What sources did the light come from? Share your answers with the class.

NOTE TO EDUCATORS

- Extension Activities for Educators are also available.
- Vocabulary Scaffolding sheet also available.

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Know, Want to Know, Learned Exercise



NAME: _____

DATE: _____

TOPIC: _____

What I
Know

What I
Want
to know

What I
Learned