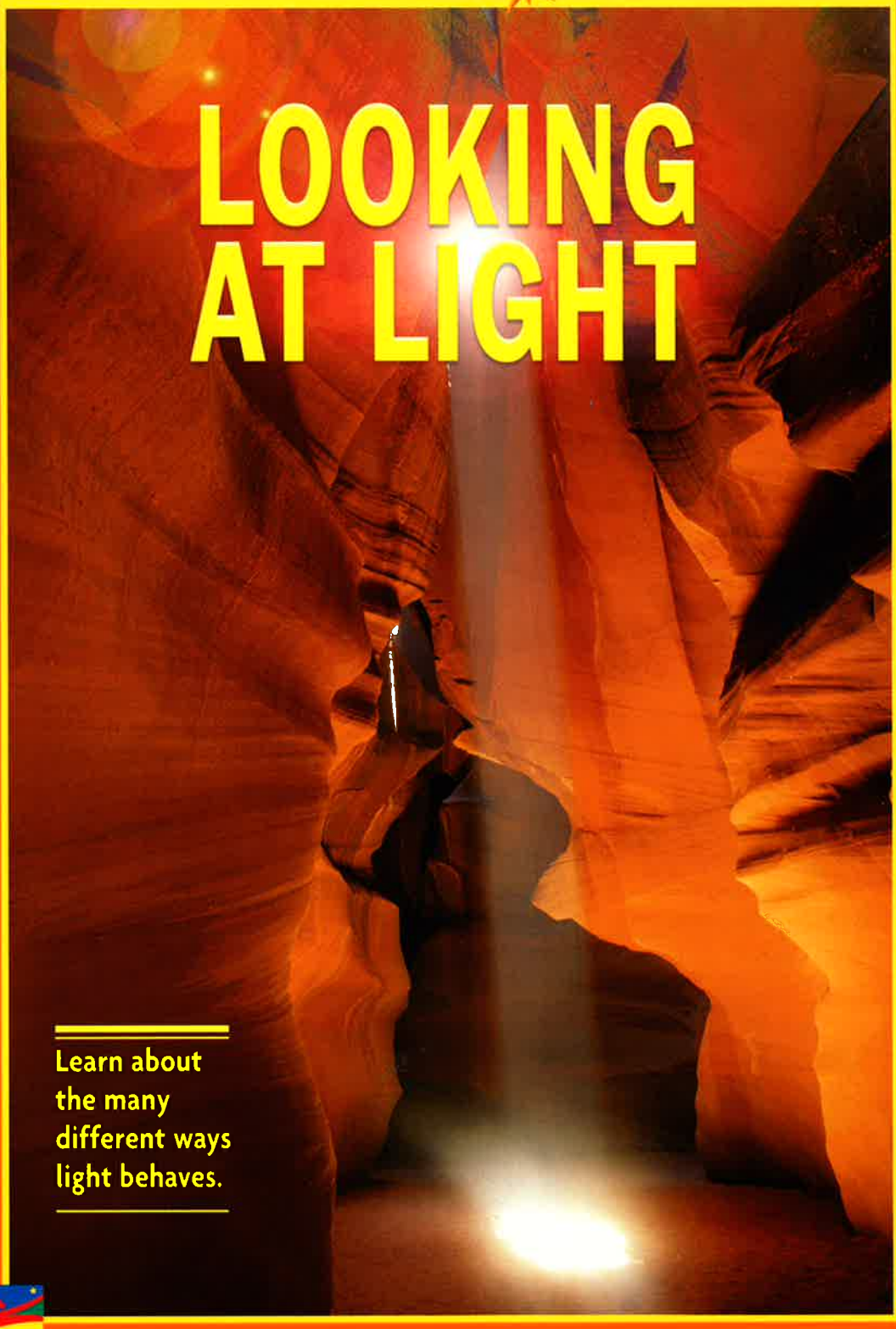
BRIDGES™

LOOKING AT LIGHT



Learn about the many different ways light behaves.

KAREN A. FRENKEL

Benchmark EDUCATION

SCIENCE
Light and Sound
Level 24 L

For teachers' inspection ONLY

READING

Comprehension Skill:
Analyze Text Structure and Organization

As you read, look for signal words that help you determine text structures such as descriptions and cause-and-effect relationships.

Phonics/Word Study:
Suffix **-ion**

As you read, look for words with the suffix **-ion**, like **creation**.

Look for these text and graphic features.

Text Features

- Table of contents
- Introduction
- Sidebars
- Conclusion
- Glossary
- Index
- Information about the author
- Vocabulary words in boldfaced type
- Captions for photos, diagrams, and illustrations
- Checkpoints. Check yourself to see that you understand what you have read. Pages 7, 29

Graphic Features

- Photographs.
- Labeled diagrams. Pages 6, 12, 14, 15, 26

SCIENCE

The Big Idea:

In this book, you will read about how light behaves.

Look for these special information features.

Content Sidebars

- It's a Fact. Page 16
- Math Matters. Pages 9, 10
- Careers. Page 18
- They Made a Difference. Pages 24, 27
- Hands-On Experiments. Pages 8, 22

Content Vocabulary

concave
convex
crest
diffract
disperse
prism
reflect
refract
trough
visible spectrum
wavelength

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LOOKING AT LIGHT

BY KAREN A. FRENKEL

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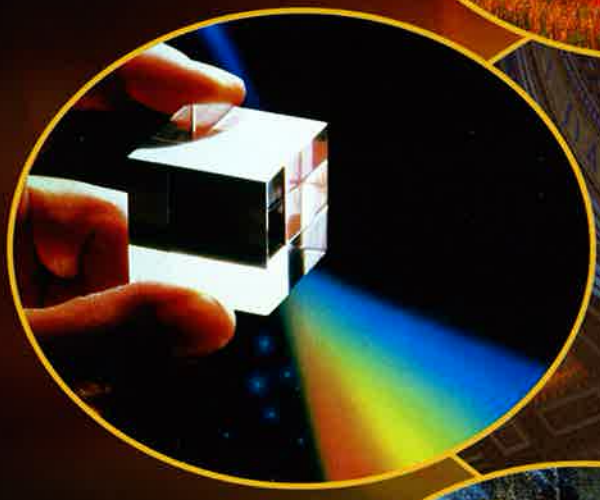
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Pictures To Think About

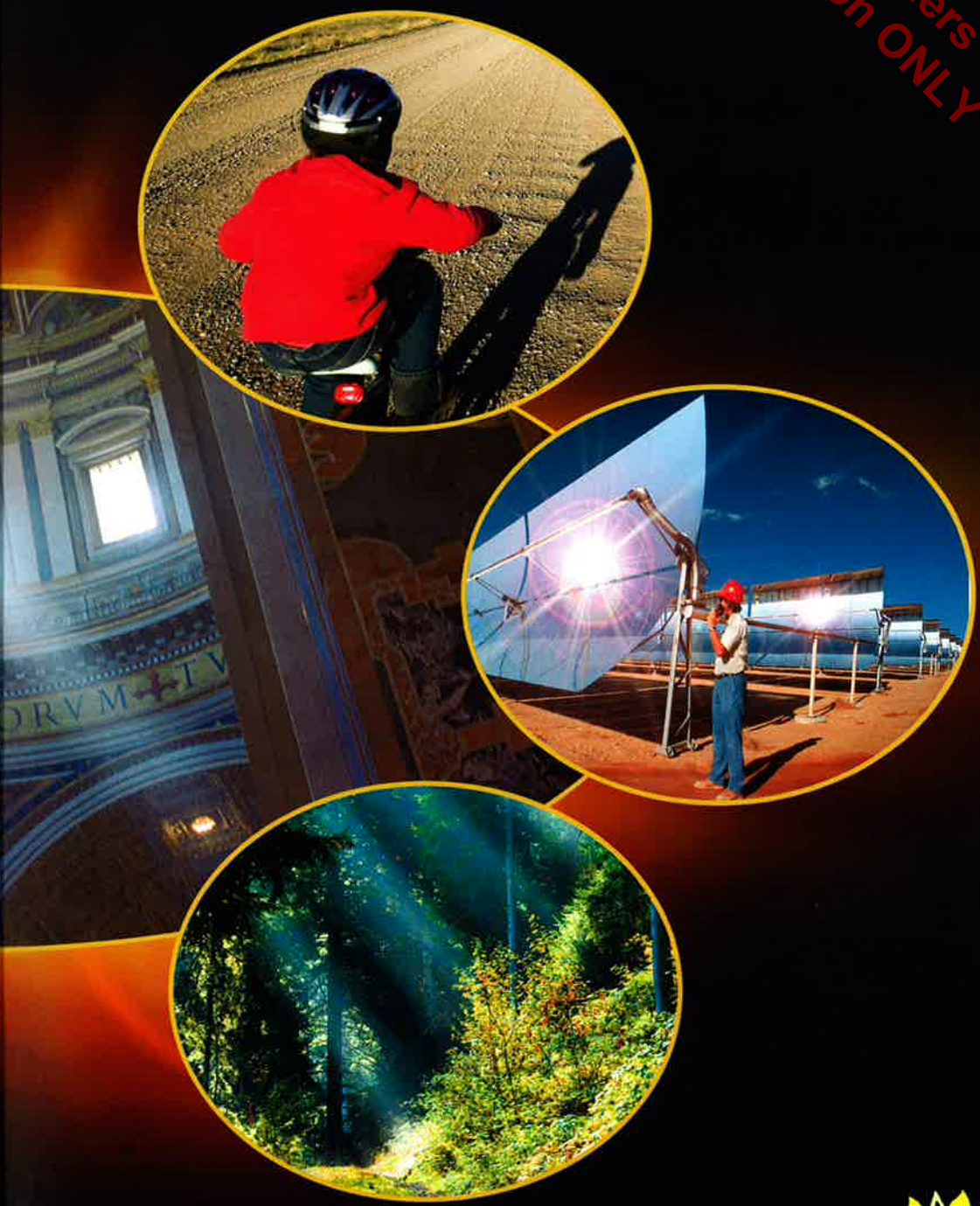
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Words To Think About

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Characteristics

- clear object
- bends light
- ?

prism

What do you think the word **prism** means?

Forms

- raindrop
- crystal
- ?

concave

What do you think the word **concave** means?

- Latin: cum (with)
- Latin: cavus (hollow)

Read for More Clues
concave, page 14
prism, page 23
trough, page 7

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trough

What do you think the word **trough** means in this book?

Meaning 1
the lowest part of a light wave (noun)

Meaning 2
a long, narrow container for feeding animals (noun)

Meaning 3
a shallow, open ditch (noun)



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INTRODUCTION

Could we see without light? Could we live without light? The answer to both questions is no. We could not see without light. We could not live without it, either.

In this book, you will learn about light. You will see what happens when we block light. You will see how light can bend and bounce, too.



◀ Sometimes we see light as it shines off a glass surface.



▲ Most living things need light.