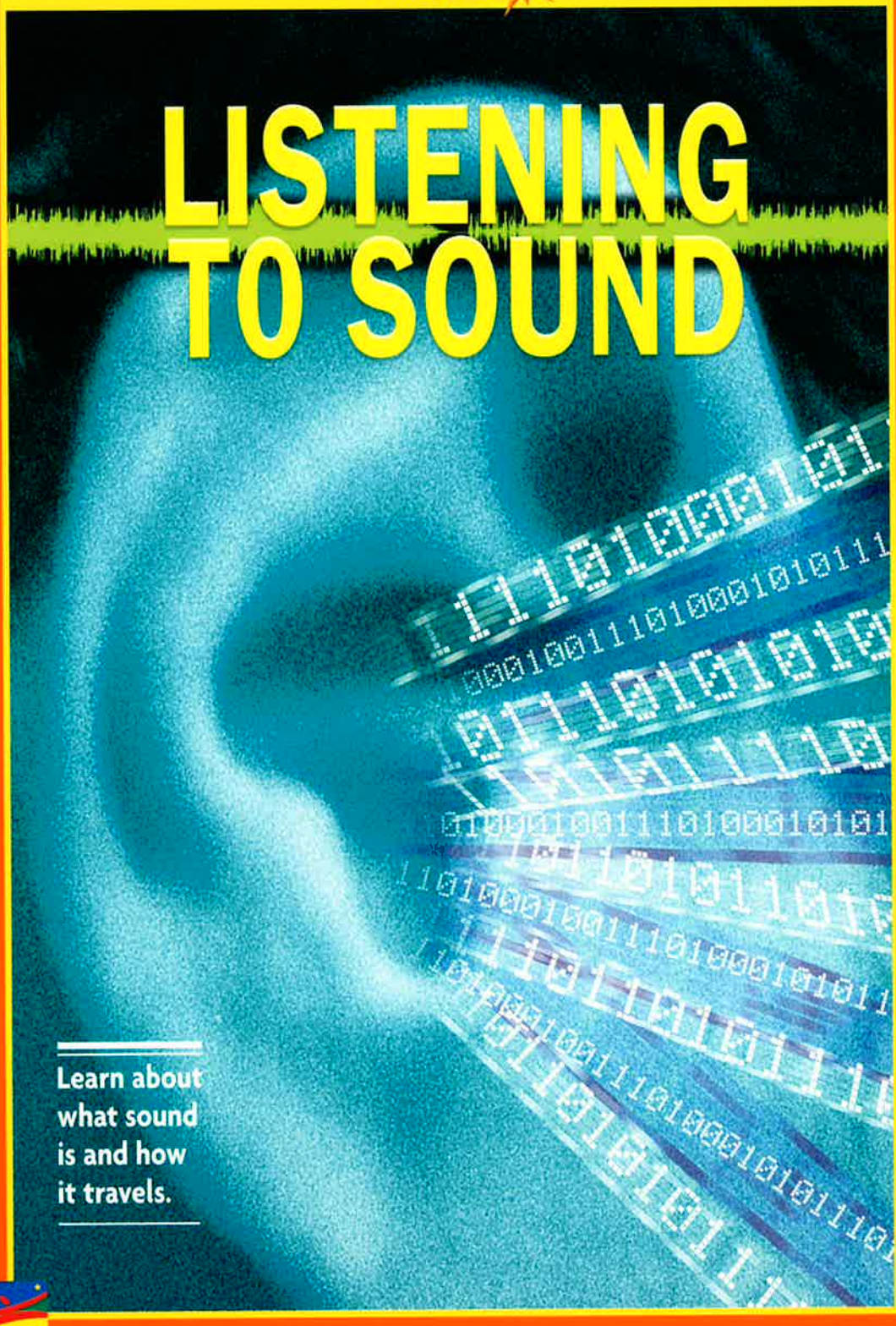
BRIDGES™

LISTENING TO SOUND



Learn about what sound is and how it travels.

KAREN A. FRENKEL

Benchmark EDUCATION

SCIENCE
Light and Sound
Level 28 M

For teachers' inspection ONLY

READING

Comprehension Skill:
Main Ideas and Supporting Details

As you read, ask yourself what details are connected. Use those details to identify main ideas in the book.

Phonics/Word Study:
Words with r-controlled **u**

As you read, look for words with r-controlled **u**, like **curtain**. This sound in a syllable rhymes with the word **her**.

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 5, 25

Graphic Features

- Photographs.
- Labeled diagrams. Pages 12, 15, 19

SCIENCE

The Big Idea:

In this book, you will read about how sound works.

Look for these special information features.

Content Sidebars

- Everyday Science. Page 18
- It's a Fact. Pages 4, 8, 10
- Careers. Page 25
- Math Matters. Pages 7, 26
- Experiments. Pages 6, 9, 17, 22, 23
- They Made a Difference. Pages 16, 24

Content Vocabulary

amplitude
compress
crest
decibel
diffraction
frequency
larynx
pitch
refract
sonar
supersonic
synthesizer
trough
wavelength

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Listening to Sound

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by Karen A. Frenkel

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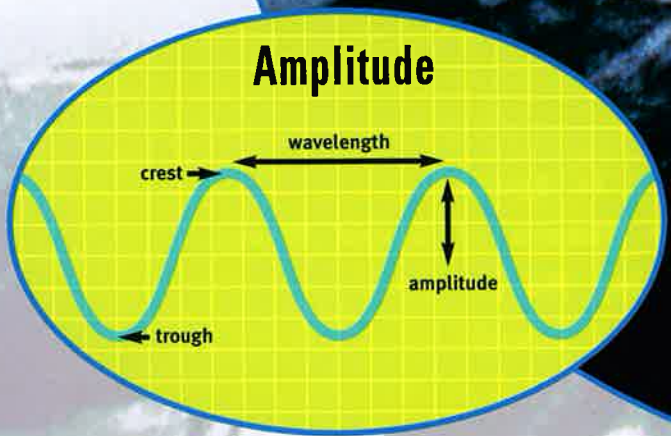
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Pictures To Think About

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Words To Think About

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pitch

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

Meaning 1
to throw
(verb)

Meaning 2
sound of a musical note
(noun)

Meaning 3
tar used on roads and rooftops
(noun)

supersonic

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

Latin:
super
(above)

Latin:
sonus
(sound)



Read for More Clues
pitch, page 16
sonar, page 10
supersonic, page 26

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sonar

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

Why do people use sonar?

- to find fish
- ?
- to find sunken ships

How does sonar work?

- releases sound waves
- ?
- sound waves bounce off an object

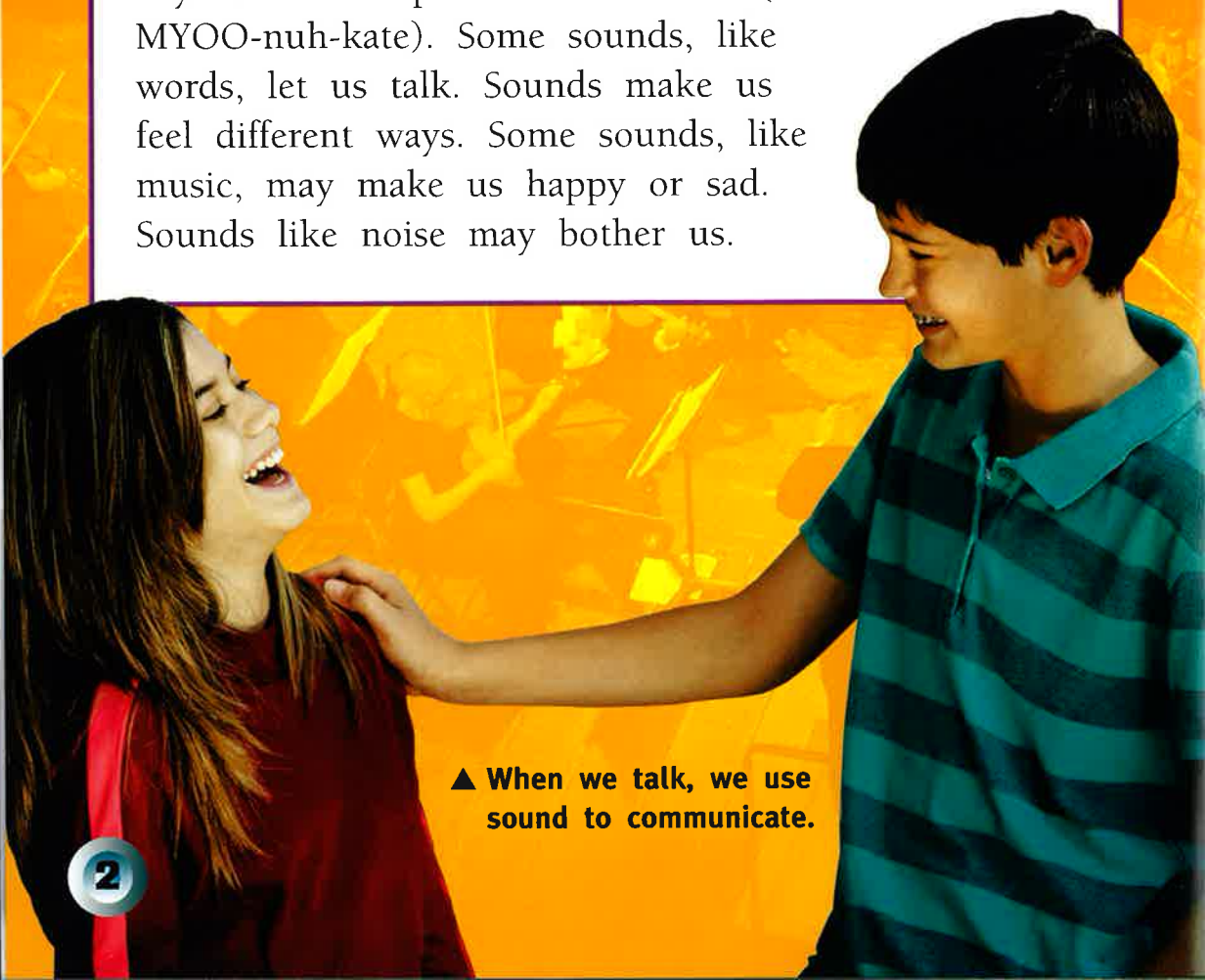


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Introduction

What is sound? Why are some sounds soft? Why are other sounds loud? Why are some sounds deep and low? Why are other sounds squeaky and high?

We hear many different types of sounds each day. Sounds help us communicate (kuh-MYOO-nuh-kate). Some sounds, like words, let us talk. Sounds make us feel different ways. Some sounds, like music, may make us happy or sad. Sounds like noise may bother us.



▲ When we talk, we use sound to communicate.