

Heat, Light, and Sound



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Heat

► The sun warms land, air, and water.

- Heat is a kind of energy.
- Heat from the sun warms the Earth.

▶ Which part of the street gets hot faster?



- ▶ Dark things warm up quickly.
- ▶ Light things warm up more slowly.

Other Sources of Heat



► lamp

► stove

- A lamp gives off heat.
- A stove gives off heat.

Light

spotlight



sunlight



- Light is energy that lets us see.
- The sun gives off light. So do lamps.

Light and Shadows



- Light moves.
- It passes through clear things.



▶ shadow

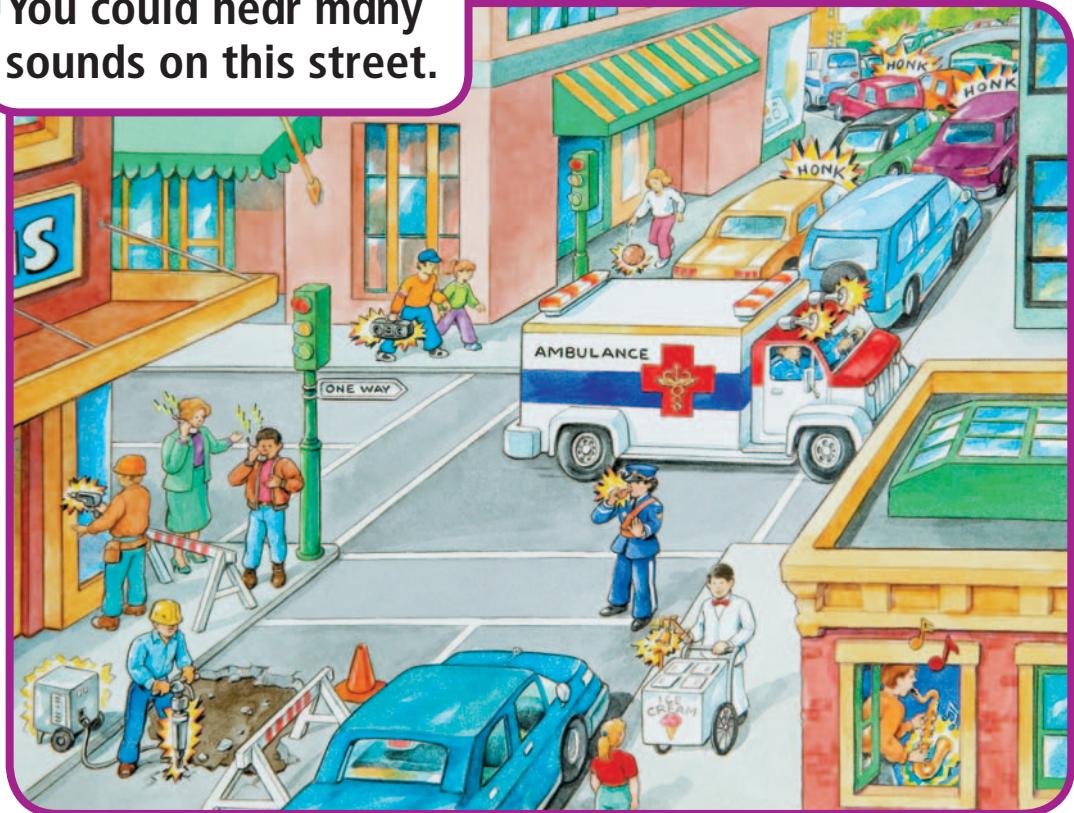


▶ shadow

- ▶ Things that are not clear block light.
- ▶ When light is blocked, shadows form.

Sound

▶ You could hear many sounds on this street.



▶ Sound is energy you hear.



- Sound is made if something vibrates.
- Guitar strings vibrate to make sound.

Different Sounds

whispering

shouting



- You can hear a sound's loudness.
- A whisper is soft. A shout is loud.

▶ This musical instrument has a low pitch.



▶ This whistle has a high pitch.



- ▶ You can hear a sound's pitch.
- ▶ Pitch is how high or low a sound is.

► **Vocabulary**

- **heat**, p. 2
- **light**, p. 5
- **shadow**, p. 7
- **sound**, p. 8
- **vibrate**, p. 9
- **loudness**, p. 10
- **pitch**, p. 11

► **Think About the Reading**

- **1.** What questions do you have after reading this book?
- **2.** How can you find answers to these questions?

► **Hands-On Activity**

- **1.** Use rubber bands and a box to make a homemade guitar.
- **2.** Pluck the strings. Describe the sound each string makes.

► **School-Home Connection**

- Tell a family member what you have read about heat, light, and sound. Talk with the family member about sources of heat, light, and sound at home.