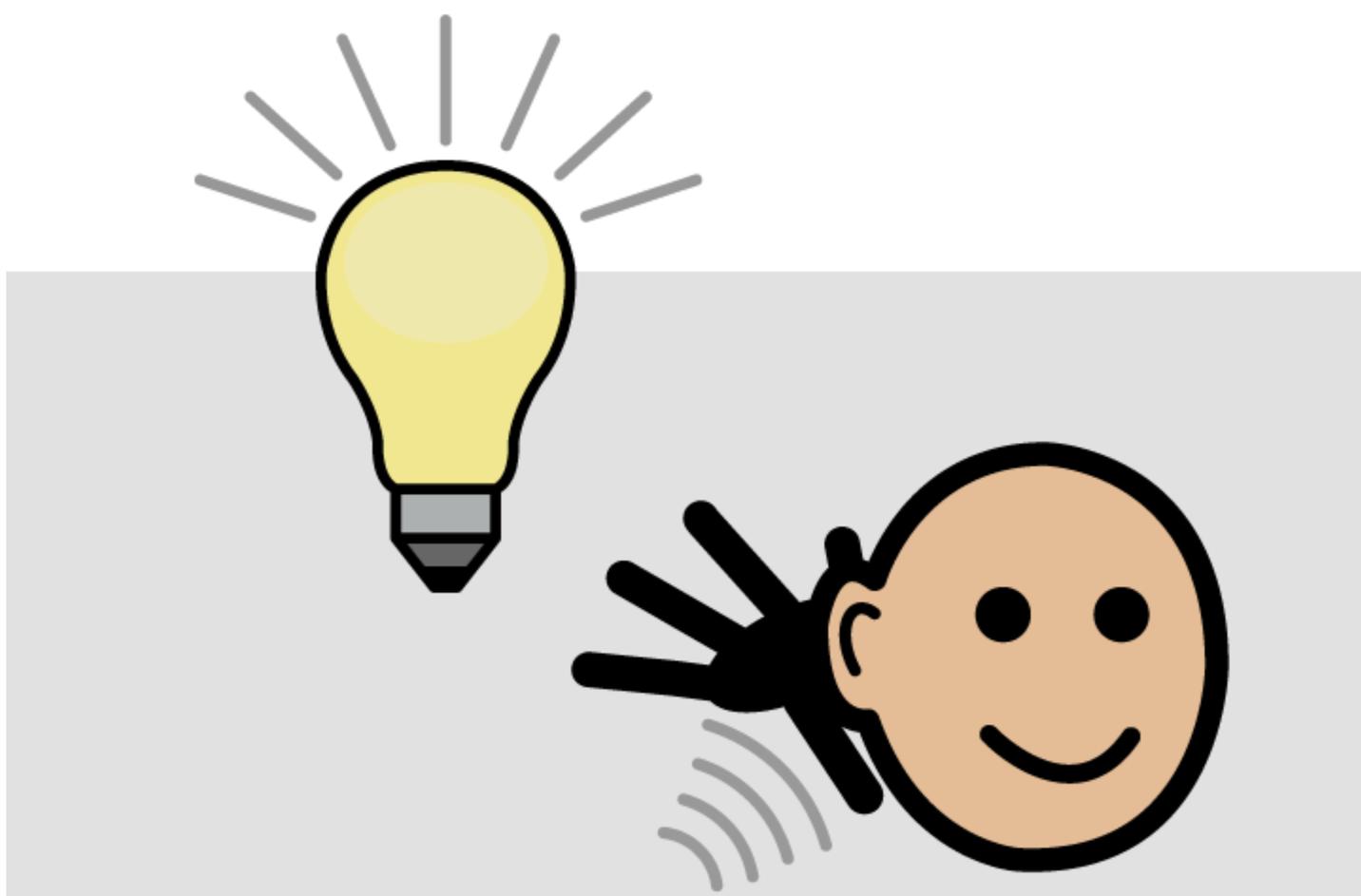


Light and Sound on the Move





Unit Overview

Light and Sound on the Move

This unit explores sources of light and sound. Lessons focus on identifying sources of light and sound and investigating how light and sound travel.

Lesson	Activities	Description	Page
1	Leveled Book	<i>What Makes That Sound?</i>	4
2	Read and Comprehend	Leveled Book Comprehension	58
3	Easy Read Book	<i>It Was Too Dark</i>	76
4	Read and Comprehend	Easy Read Book Comprehension	98
5	Nonfiction Article 1	"Sound All Around"	118
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13	Literary Experience - Fiction	<i>Hamster Holmes, Afraid of the Dark?</i>	320
14	Edit It	Fun with Light and Sound	333
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16a	Number Sense Counting	Listen to the Music	357
16b	Addition	Listen to the Music	399
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16d	Operations, Multiplication and Division	Listen to the Music	493
17	Survey and Chart	Let's Make a Sound	539
18	Money	Experimenting with Light and Sound	549
19	Telling Time	Do You Hear What Gabby Hears?	575
20	It's a Fraction	Wheely Cool Lights	583
21	Measure It!	Chewy Chewy Crunch Crunch Mix	613
22	Crafty Kid	Rainbow Tambourine	629
23	Geometry/Spatial Sense	I Can See and Hear	640
24	Algebra/Patterns	Sources of Light	706
25	Information Please	Rainbow Bright	755
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27	Related Content	See the Sound	768
28	Science Experiment	Do We Need Light to See?	776
29	History Timeline	Samuel Morse	790
30	Journal Writing	Monthly Topics	799

: Portions of this lesson collect student daily performance data.



Instructional Target

Standards for Physical Science

- Recognize sources of sound.
- Recognize sources of light.
- Recognize states of matter: liquid, solid, gas.



Differentiated Tasks

Level 3 Students will...

- Describe how sound travels to the ears.
- Describe how light allows objects to be seen.
- Classify and define matter as solid, liquid or gas.

Level 2 Students will...

- Identify objects that make sound.
- Identify sources of light and the effect light has on objects.
- Sort common objects and materials as solid, liquid or gas.

Level 1 Students will...

- Participate in the demonstration of sound creation.
- Participate in the demonstration of the effect of light on an object.
- Identify an object as a solid or a liquid.



Standards Connection

Sounds Around



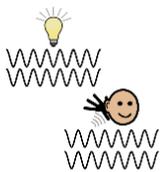
In this unit, students learn about sound. In the first book of the unit, *What Makes That Sound?*, embedded sound clips allow students to listen and identify items that make different sounds. In Article 1, "Sounds All Around", students learn how sound is created by vibrations that travel through matter to our ears. The students learn how different objects make different sounds. Students complete math scenarios involving various musical instruments in Lesson 16. In Lesson 22, students make their own musical instrument, a Rainbow Tambourine. Throughout the unit, talk with students about the sounds they hear all around.

Now I Can See



The unit's Easy Read book, *It Was Too Dark*, introduces students to the concept that we need light in order to see. In Article 2, "See the Light!", students learn that light travels until it bounces off an object and goes into our eyes. In Lesson 28, students conduct an experiment to see if we need light to see objects. In Lesson 15, students write about how they use light in their daily lives. Students extend comprehension of how light travels in Lesson 26, as they create shadow letters to practice spelling High-Frequency Words from the unit.

Light and Sound on the Move



Students learn that both light and sound are types of energy. Students learn that light and sound travel in waves. In Lesson 29, students order events in the life of Samuel Morse, the inventor of Morse Code. Students learn how Morse Code is a way to communicate using light and/or sound. Students extend comprehension of this topic in Lesson 13, as they read *Hamster Holmes, Afraid of the Dark?*. In Lesson 27, they explore how sounds waves transmit vibrations through air and make rice move. Throughout the unit, talk with students about sources of light and sound and how we use light and sound every day.

The n2y Library has several books that may extend understanding of light and sound.

- *Let's Listen to It* (Level B, A, aa) introduces the sense of hearing.
- *Did You Hear That?* (Level C) describes different sounds our ears hear.
- *Listen For Sounds* (Level D) identifies sources of commonly heard sounds.
- *Flash, Boom, Crash: Thunder and Lightening* (Level E) explains light and sounds in a thunderstorm.
- *Light: Long Ago and Today* (Level E) describes how lights in our homes have changed over time.
- *Sounds Like Work!* (Levels E, D) explains how the ear works.
- *Simon Asks, What Is Light?* (Levels H/I, D) explains light energy and colors in light.
- *Simon Hears Thunder* (Levels H/I, E) explains why we can hear thunder.

