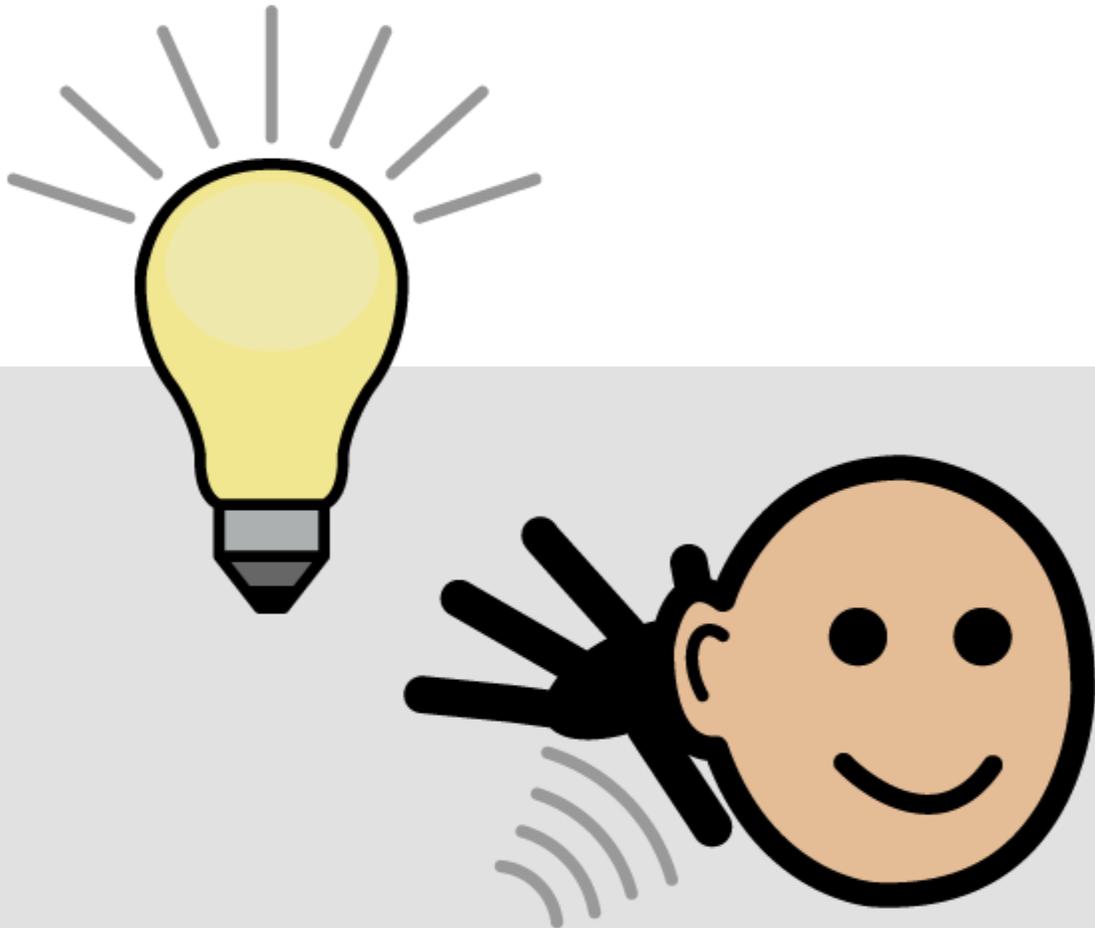


# Exploring Light and Sound





### Unit Overview

#### Exploring Light and Sound

This unit introduces the concepts of light and sound. Students learn how light affects how we see things. Students will also explore sound and how it is made and amplified.

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: Portions of this lesson collect student daily performance data.



### Instructional Target

#### Science Standards for Physical Science

- Explore sounds and how they are made.
- Identify how changes in light affect the appearance of an object.



### Differentiated Tasks

#### Level 3 Students will...

- Explain how sound is made and amplified.
- Explain how light affects the appearance of an object.

#### Level 2 Students will...

- Identify the source of a sound and how that sound can be amplified.
- Identify visible changes in objects due to light.

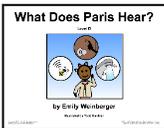
#### Level 1 Students will...

- Participate in making and amplifying a sound.
- Identify light and dark.



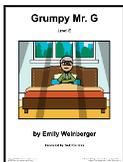
### Standards Connection

#### What Does Paris Hear?



In the Leveled Book, students are introduced to different sounds and sound sources. Students follow Paris as she hears a variety of different loud and quiet sounds. Play the sound features on each page to help students experience the sounds, make connections between the sound and the source of the sound and differentiate between loud (amplified) and quiet sounds. After reading this book, encourage students to discuss what sounds they hear throughout the day. Then, complete Lessons 2, 15, 23 and 29 to help students think about sounds, what makes them and how they can be amplified.

#### Grumpy Mr. G



In this unit's Easy Read Book, students read about Mr. G as he uses different curtains to make his bedroom dark. Students are introduced to the concept of light and how it affects the appearance of objects, such as how light shines into Mr. G's room through his window. Point out how the illustrations show the varying amounts of light in Mr. G's room. After reading this book, have students discuss how each set of curtains change the amount of light that passes through Mr. G's window and how his room looks different. Then, in lesson 16 and 19, point out the different sources of light and their characteristics. Additionally, in Lesson 28, students engage in a science experiment involving different materials and a flashlight, as they observe which material blocks the light. Throughout the unit, encourage students to make connections with light and the changes it makes in how we see things in our everyday lives.



#### Sound Bingo

Sounds come from many different sources. In Lesson 27, students read about sound waves, different sounds and where they come from. Students will also play Sound Bingo, where they can hear sounds and identify their sources. Teachers can use the interactive features of this lesson by using Sound Cards with provided sound clips. As you work through this lesson, have students recreate and amplify sounds. Encourage students to make connections with sounds they hear throughout the day, the sources of those sounds and how they can be amplified.

The n2y Library has several books that may build and extend understanding of the unit concepts:



- **Communication: Animal Sounds** (Level A) explores different sounds that animals make.
- **Let's Listen to It** (Levels aa, A, B) introduces the sense of hearing.
- **Light Waves** (Level D) identifies different sources of light.
- **Simon Asks, "What is Light?"** (Level D, H/I) explains how light is made and how it affects the appearance of an object.
- **Sound Waves** (Level D) explains sound waves and identifies different sources of sound.