

Additional Instructional Resources

Project Lead The Way understands the importance of introducing literature to students. As such, we created this list of additional resources specific to the activities, project, and problem in the Light and Sound module.

These resources are not included in the equipment kit, and they are not covered in the 10 instructional hours of the module. Using these resources helps students make connections if the content is new to them.

Books

The following books align with topics addressed in the module.

APB	Title	Author
Activity 1	Light Is All Around Us	Wendy Pfeffer
	Oscar and the Moth: A Book About Light and Dark	Geoff Waring
	Sound Is All Around Us	Wendy Pfeffer
Activity 2	How Sound Moves	Sharon Coan
	Many Beans	Elena Castro, Barbara M. Flores, and Eddie Hernández
	Oscar and the Bat: A Book About Sound	Geoff Waring
	Sound: Loud, Soft, High, and Low	Natalie Myra Rosinsky
Activity 3	Day Light, Night Light: Where Light Comes From	Dr. Franklyn M. Branley
	Flashlight	Lizi Boyd
	Light Helps Me See	Jennifer Boothroyd
	Light Waves	David A. Adler
Project	Let's Make a Rainbow!	Chris Ferrie
	Light: Shadows, Mirrors, and Rainbows	Natalie Myra Rosinsky
Problem	Sending Messages with Light and Sound	Jennifer Boothroyd
	Cao Chung Weighs an Elephant	Songju Ma Daemicke
	Dreaming Up: A Celebration of Building	Christy Hale

APB	Title	Author
	Izzy Gizmo	Pip Jones
	Like Me	Quinn Woodard
	Kama's Lei	Robin Montgomery
	The Pot That Juan Built	Nancy Andrews-Goebel
	Rainbow Joe and Me	Maria Diaz Strom
	Rainbow Weaver/Tejedora del arcoíris	Linda Elovitz Marshall
	Rosie Revere, Engineer	Andrea Beaty
	The Turtle Ship	Helena Ku Rhee

Historical Connections

The following books can help students make connections to historical narratives.

Title	Author
Alexander Graham Bell Answers the Call	Mary Ann Fraser
Classified: The Secret Career of Mary Golda Ross, Cherokee Aerospace Engineer	Traci Sorrell
Dream Builder	Kelly Starling Lyons
The Girl With a Mind For Math: The Story of Raye Montague	Julia Finley Mosca
Honda: The Boy Who Dreamed Of Cars	Mark Weston
Secret Engineer: How Emily Roebling Built the Brooklyn Bridge	Rachel Dougherty
Whoosh!: Lonnie Johnson's Super-Soaking Stream of Inventions	Chris Barton

Music and Videos

The following resources offer opportunities for students to engage with music, rhythm, or rhyme that align with topics addressed in the module.

Title	Author
Catch a (Sound) Wave	PBS Kids
Communication Over Distances	Generation Genius
Introduction to Light	Generation Genius
Light	Peekabook Kidz
What is Light?	Smile and Learn
Sounds and Solids: Visualizing Vibrations	Zoom
What is Sound?	Peekaboo Kidz

Websites

The following online resources offer opportunities to build your own understanding of the concepts as you prepare to facilitate this module.

Title	Source	Site
Light Waves, Visible and Invisible	Ted-Ed	https://www.youtube.com/watch?v=O0PawPSdk28
The Science of Sound	NASA	https://www.nasa.gov/specials/X59/science-of-sound.html
What is Light?	PBS Learning Media	https://indiana.pbslearningmedia.org/resource/mck14-pd-sci-phys-whatlight/what-is-light/
What is Light - Physics	The Real Physics	https://www.youtube.com/watch?v=BUYeQa_ojk