

1st Grade

Unit 4 : Energy: Sound and Light

Duration: 4 weeks

Students will explore the many ways energy affects our daily lives and activities. Students will learn about the forces of sound and light. They will learn and demonstrate how vibrations cause sound in objects. They will investigate light from all sources and how it affects darkness, other objects, mirrors, and our lives. The unit has connections to environmental science, specifically conservation of energy and alternate energy sources. Read-Aloud: *Sound* and Light

Essential Standards:

RI.1.2 Identify the main topic and retell key details of a text.

RL.1.2a. Retell stories, including key details.

1-PS4-2 Make observations to construct an evidence-based account that objects can be seen only when illuminated. (dark room, pinhole box)

1-PS4-3 Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. (transparent, translucent, opaque, reflective materials)

1-PS4-4 Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. (light source to send signals, paper cup and string telephones, pattern of drum beats)

Assessments:

Science Performance Task: "I'm a Scientist"

Science Performance Task: "Picture This!" (scroll

Science Task: Go Away! Come Here!

Paired Text Assessment: "A Loud Concert" and "Music in Your Ear"

Paired Text Assessment: "No Problem" and "Henry's Homework"

Texts:

Literary texts

My Five Senses

The Listening Walk

The Remarkable Farkle McBride

“A Loud Concert,” 230L

“Henry’s Homework Folder”

“Maria Makes a Snake,” 380L

Flicker Flash

Informational texts

Sound: Loud, Soft, High, and Low; IG580L

“How to See Sound,” 410L

“Music in Your Ear,” 470L

“No Problem,” 130L

Light: Shadows, Mirrors, and Rainbows; IG670L

“Light,” 210L

Nothing Sticks Like a Shadow

Energy from the Sun

Energy Island

Nonprint texts

Zin! Zin! Zin! A Violin! (12 m, media on Discovery Education)

[Sound and Solids: Visualizing Vibrations](#)

[Sound and Solids: Stereo Hangers](#)

[Sound and Solids: Listening Stick](#)

[Shadow Tricks](#) (*Curious George* clip)

Paired passage sets:

“A Loud Concert” and “Music in Your Ear”

“No Problem” and “Henry’s Homework Folder”