

Teacher/Team Name: First Grade

Topic: Science First Grade Light and Sound

Days: 34

Subject(s):

Grade(s):

Key Learning: **Light and sound are two forms of energy.**



Unit Essential Question(s):

**How is light and sound used as energy?**



Concept:

**Sound can make matter vibrate, and vibrating matter can make sound.**

Concept:

**Objects can be seen only when light is available to illuminate them. Very hot objects give off some light (e.g. a fire, the sun).**

Concept:

**Some materials allow light to pass through them, others allow only some light through and others block all the light and create a dark shadow on any surface beyond them (i.e., the other side of the light source), where the light cannot reach.**



Lesson Essential Question(s):

How can we carry out investigations to provide evidence that vibrating matter creates sound and that sound can cause matter to vibrate? (A)

Lesson Essential Question(s):

How can we investigate to describe that objects can be seen only when light is available to illuminate them? (A)

Lesson Essential Question(s):

How can we investigate that some materials allow light to pass through, others only allow some light to pass through, and some materials block all of the light, creating a dark shadow? (A)

How can we obtain and communicate information that very hot objects give off their own light? (A)



Vocabulary:

vibrate, matter, sound

Vocabulary:

illuminate

Vocabulary:

shadow





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<b>Concept:</b> <b>Mirrors and prisms can be used to redirect a light beam.</b>	<b>Concept:</b> <b>People use a variety of devices to communicate (send and receive information) over long distances.</b>
	
<b>Lesson Essential Question(s):</b> How can we investigate to describe how mirrors and prisms redirect light? (A)	<b>Lesson Essential Question(s):</b> How can we provide evidence that communicating over distances is important in our daily lives? (A)
	
<b>Vocabulary:</b> redirect	<b>Vocabulary:</b> communicate

**Additional Information:**

Examples of very hot objects that give off their own light are fire and sun.

Only descriptions from the observations of the phenomenon of light being redirected from a mirror and a prism are to be included.

Examples of vibrating matter that creates sound could be tuning forks or plucking a stretched string. An example of how sound can cause matter to vibrate could be holding a piece of paper near a speaker.

**Attached Document(s):**

Teacher / Team Name: First Grade

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Vocab Report for Topic: Science First Grade Light and Sound

Days: 34

Subject(s):

Grade(s):

**Concept: Sound can make matter vibrate, and vibrating matter can make sound.**

vibrate -  
matter -  
sound -

**Concept: Objects can be seen only when light is available to illuminate them. Very hot objects give off some light (e.g. a fire, the sun).**

illuminate -

**Concept: Some materials allow light to pass through them, others allow only some light through and others block all the light and create a dark shadow on any surface beyond them (i.e., the other side of the light source), where the light cannot reach.**

shadow -

**Concept: Mirrors and prisms can be used to redirect a light beam.**

redirect -

**Concept: People use a variety of devices to communicate (send and receive information) over long distances.**

communicate - send and receive messages