

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)

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



Vocabulary:

vibrate, matter, sound

Vocabulary:

illuminate

Vocabulary:

shadow

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Concept:

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

Concept:

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



Lesson Essential Question(s):

How can we investigate to describe how mirrors and prisms redirect light? (A)

Lesson Essential Question(s):

How can we provide evidence that communicating over distances is important in our daily lives? (A)

Vocabulary:
redirectVocabulary:
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):

Vocab Report for Topic: Science First Grade Light and Sound
Subject(s):

Days: 34
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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