

Light and Sound

Grade 1

Big Idea

Light and sound can be produced and their properties can be changed.

Questions to support inquiry with students:

How can you explore the properties of light and sound?

What discoveries did you make?

Learning Standards: Content

1) natural and artificial sources of light and *sound*

2) properties of light and *sound* that depend on their source and the objects they interact with

Content Elaborations

1) Natural sources of light include the sun and artificial sources include light bulbs.

Natural sources of sound include crickets and artificial sources include car horns.

2) Examples of properties of light include brightness and colour. Objects are made visible by radiating their own light or being illuminated by reflected light.

Interactions of light with different objects create images and shadows. Light interactions can make plants grow, make shadows or cause sunburn depending on the source and location (seasons depend on light from the sun and how spread out the sun's rays are). Plants grow toward light.

Examples of properties of sound include pitch, tone and volume. Ways of making, recording and transmitting sound.

Learning Standards: Curricular Competencies

Questioning and predicting

- ▶ Demonstrate curiosity and a sense of wonder about the world
- ▶ Observe objects and events in familiar contexts
- ▶ Ask questions about familiar objects and events
- ▶ Make simple predictions about familiar objects and events

Processing and analyzing data and information

- ▶ Experience and interpret the local environment
- ▶ Sort and classify data and information using drawings or provided tables
- ▶ Compare observations with predictions through discussion
- ▶ Identify simple patterns and connections

jn/november2015