



Unit 2 Light and Sound

Grade 1 Science

Unit Description:

Light: Students will make observations to construct an evidence-based account that objects can be seen only when illuminated. They will also plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. They will use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. Students will link these experiences by using tools and materials to design a solution to a human problem by mimicking how plants and or animals use their external parts to help them survive, grow, and meet their needs.

Sound: Students will continue to build devices that use sound or light to communicate. They will also plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.

Science Standards:

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| 1-PS4-1 | Plan/conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. |
| 1-PS4-2 | Make observations to construct an evidence-based account that objects can be seen only when illuminated. |
| 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. |
| 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. |

Enduring Understandings- Unit Anchor Phenomenon:

People use light to see things and communicate with others.

Essential Questions- Reflective Summaries:

- Explain that vibrating materials can make sound and that sound can make materials vibrate.
- Make a claim supported by evidence that objects can be seen only when illuminated.

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| | <ul style="list-style-type: none">• Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.• Design and build a device that uses light or sound to solve the problem of communicating over a distance. |
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