



| Grade 1 Science WAVES AND THEIR APPLICATIONS | |
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| Louisiana Student Standards | Louisiana Connectors (LC) |
| 1-PS4-1 Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. | LC-1-PS4-1a Through collaborative investigations, recognize that sounds can cause materials to vibrate. |
| | LC-1-PS4-1b Through collaborative investigations, recognize that vibrating materials can make sound. |
| | LC-1-PS4-1c Use evidence to describe that vibrating materials can make sound. |
| | LC-1-PS4-1d Use evidence to describe that sound can make matter vibrate. |
| 1-PS4-2 Make observations to construct an evidence-based account that objects can be seen only when illuminated. | LC-1-PS4-2a Through observations, recognize that objects can be seen only when illuminated by an external light source or when they give off their own light. |
| 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. | LC-1-PS4-3a Through collaborative investigations, recognize that some materials allow light to pass through them. |
| | LC-1-PS4-3b Through collaborative investigations, recognize that some materials allow only some light to pass through them. |
| | LC-1-PS4-3c Through collaborative investigations, recognize that some materials block all the 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. | LC-1-PS4-4a When using tools and materials to design and build a device, identify features of devices that people use to send and receive information over long distances. |



| Grade 1 Science | |
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| FROM MOLECULES TO ORGANISMS: STRUCTURES AND PROCESSES | |
| Louisiana Student Standards | Louisiana Connectors (LC) |
| <p>1-LS1-1 Use 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.</p> | <p>LC-1-LS1-1a Identify how animals use their external parts to help them survive, grow, and meet their needs.</p> |
| | <p>LC-1-LS1-1b Identify how plants use their external parts to help them survive, grow, and meet their needs.</p> |
| | <p>LC-1-LS1-1c Identify a design solution to a human problem which is similar to how a plant or animal uses its external parts to help it survive, grow, and meet its needs.</p> |
| <p>1-LS1-2 Read grade-appropriate texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.</p> | <p>LC-1-LS1-2a Use texts or media to identify behaviors of offspring that help them survive.</p> |
| | <p>LC-1-LS1-2b Use texts or media to identify behaviors between parents and offspring that help the offspring survive.</p> |
| | <p>LC-1-LS1-2c Use texts or media to identify patterns in behavior between parents and offspring that help the offspring survive.</p> |

| Grade 1 Science | |
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| HEREDITY: INHERITANCE AND VARIATION OF TRAITS | |
| Louisiana Student Standards | Louisiana Connectors (LC) |
| <p>1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are similar, but not exactly like, their parents.</p> | <p>LC-1-LS3-1a Make observations to identify a similarity or a difference in an external feature (e.g., shape of ears) between young animals and their parents.</p> |
| | <p>LC-1-LS3-1b Make observations to identify a similarity or a difference in an external feature (e.g., shape of leaves) between young plants and their parents.</p> |



| Grade 1 Science EARTH'S PLACE IN THE UNIVERSE | |
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| Louisiana Student Standards | Louisiana Connectors (LC) |
| 1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted. | LC-1-ESS1-1a Use observations to describe patterns of movement of the sun, moon, and stars as seen from Earth. |
| | LC-1-ESS1-1b Use observations of patterns of movement to predict appearances of the sun or moon. |
| 1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year. | LC-1-ESS1-2a Use observations to make relative comparisons between the amount of daylight in the winter to the amount of daylight in the spring or fall. |