



<b>Science Grade 4</b> <b>Physical Science: Sound (SO)</b>					
<b>Outcome</b>		<b>1 – Little Evidence</b> With help, I understand parts of the simpler ideas and do a few of the simpler skills.	<b>2 – Partial Evidence</b> I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	<b>3 – Sufficient Evidence</b> I understand the more complex ideas and can master the complex skills that are taught in class. <b>I achieve the outcome.</b>	<b>4- Extensive Evidence</b> I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
<b>SO4.1</b> <b>Explore natural and artificial sources of sound in the environment and how those sounds are detected by humans and animals.</b>	<b>Explore natural and artificial sources of sound</b>	<ul style="list-style-type: none"> <li>I can carry out simple processes to identify some natural and artificial sources of sound in the environment.</li> </ul>	<ul style="list-style-type: none"> <li>I can carry out simple processes with some accuracy to identify some natural and artificial sources of sound in the environment and how these sounds affect daily life.</li> </ul>	<ul style="list-style-type: none"> <li>I can carry out processes accurately to differentiate between natural and artificial sounds in the environment.</li> </ul>	<ul style="list-style-type: none"> <li>I can design and carry out a process to make predictions about the importance of natural and artificial sound in daily life.</li> </ul>
	<b>Explore how sounds are detected by humans</b>	<ul style="list-style-type: none"> <li>I can carry out simple processes to explain how humans and animals detect sounds.</li> </ul>	<ul style="list-style-type: none"> <li>I can carry out simple processes with some accuracy to explain how humans and animals detect sounds.</li> </ul>	<ul style="list-style-type: none"> <li>I can carry out processes accurately compare how humans and animals detect sounds.</li> </ul>	<ul style="list-style-type: none"> <li>I can design and carry out a process to make predictions about how structural modifications might affect hearing in people or animals, using the scientific process.</li> </ul>
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<b>SO4.2</b> <b>Draw conclusions about the characteristics and physical properties of sound, including pitch and loudness, based on observation.</b>	<ul style="list-style-type: none"> <li>I can <b>make some generalizations about</b> characteristics of sound including pitch and loudness as learned through observation, <b>with help.</b></li> <li>I can <b>make generalizations about</b> the physical properties of sound including pitch and loudness as learned through observation, <b>with help.</b></li> <li>I can <b>carry out processes to</b> predict how sound reacts when traveling through or interacting with different substances.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>make some generalizations about the characteristics of sound,</b> as learned through observation.</li> <li>I can make <b>some generalizations about the physical properties</b> of sound as learned through observation.</li> <li>I can <b>carry out processes with some accuracy to</b> predict how sound reacts when traveling through or interacting with different substances.</li> </ul>	<ul style="list-style-type: none"> <li>I can make generalizations about the characteristics of sound, <b>including pitch and loudness,</b> as learned through observation.</li> <li>I can <b>make generalizations about the physical properties</b> of sound including pitch and loudness as learned through observation.</li> <li>I <b>carry out processes accurately</b> to predict how sound reacts when traveling through and interacting with different substances.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>compare my</b> observations about the characteristics of sound, including pitch and loudness, <b>with that of scientific research.</b></li> <li>I can <b>compare my observations</b> about the physical properties of sound, including pitch and loudness, with that of scientific research.</li> <li>I can <b>design and carry out an accurate investigation to compare</b> how sound reacts when traveling through and interacting with different substances.</li> </ul>
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<b>SO4.3</b> <b>Assess personal, societal, and environmental impacts of sound-related technologies.</b>	<b>Personal impact</b>	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can identify some positive and negative impacts of sound-related technologies on people.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify some positive and negative impacts</b> of sound-related technologies on people.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>explain the positive and negative impacts of</b> sound-related technologies <b>on people</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>recommend a</b> sound-related technology for my own use, with examples and details for support.</li> </ul>
	<b>Societal impact</b>	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can identify some positive and negative impacts of sound-related technologies on society.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify some positive and negative impacts</b> of sound-related technologies on society.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>explain</b> the positive and negative impacts of sound-related technologies <b>on society</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>recommend a</b> sound-related technology for use in society, with examples and details for support.</li> </ul>
	<b>Environmental Impact</b>	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can <b>identify a few</b> positive and negative impacts of sound-related technologies on the environment.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify some positive and negative impacts</b> of sound-related technologies on the environment.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>explain</b> the positive and negative impacts of sound-related technologies <b>on the environment</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>recommend a</b> sound-related technology for use in the environment with minimal negative impact, with examples and details for support.</li> </ul>
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