

Seth Vanzant  
 Foss Lesson  
 05/13/07

<p><b>Lesson Plan Title:</b> Sound Challenges – The Physics of Sound Activity 4 (Foss)</p> <p style="text-align: center;"><b>Grade 3</b></p>	<p><b>Key Concept(s) in this lesson:</b></p> <ul style="list-style-type: none"> <li>• <u>Physical Science</u> <ul style="list-style-type: none"> <li>○ Sound Receiver</li> <li>○ Sound Source</li> <li>○ Sound Travel</li> </ul> </li> <li>• <u>Key Vocabulary</u> <ul style="list-style-type: none"> <li>○ Amplify</li> <li>○ Megaphone</li> <li>○ Inner-ear</li> <li>○ Outer-ear</li> </ul> </li> </ul>
<p><b>WHAT YOU WANT STUDENTS TO KNOW, BE ABLE TO DO, OR FEEL/UNDERSTAND</b></p>	
<p><b>Lesson goal(s)</b></p>	
<p>In Sound Challenges the Students Will:</p> <ul style="list-style-type: none"> <li>• Observe that the outer ear is designed to receive sound.</li> <li>• Compare different ways to make sounds louder and travel farther.</li> <li>• Record observations of how sounds travel.</li> <li>• Organize and communicate findings.</li> <li>• Learn concepts that will contribute to understanding of the following theme: <b>Structure and Interaction.</b></li> </ul>	
<p><b>Specific Objectives</b></p>	
<ul style="list-style-type: none"> <li>• Students will work in groups of 4 to complete sound challenge worksheets.</li> <li>• Students will follow their assigned group roles to complete the worksheets and plan presentations.</li> <li>• Students will understand how volume changes from source to receiver (ear) and how to amplify the source/reciever.</li> <li>• Students will prepare presentations on their assigned sound challenge worksheets.</li> </ul>	
<p><b>Standards addressed (EALRs, GLEs)</b></p>	
<p><u>Science</u></p> <p><b>EALR: 1. SYSTEMS:</b> The student knows and applies scientific concepts and principles to understand the properties, structures, and changes in physical, earth/space, and living systems.</p> <ul style="list-style-type: none"> <li>• <b>Component: 1.1.</b> Properties: Understand how properties are used to identify, describe, and categorize substances, materials, and objects and how characteristics are used to categorize living things.</li> <li>• <b>GLE: 1.1.3.</b> Understand the behavior of sound in terms of vibrations, sound sources and receivers, and the behavior of sound       <ul style="list-style-type: none"> <li>○ Students will describe experiences with sound (i.e., vibrations, volume, and sound travel).</li> <li>○ Students will apply scientific concepts to understand that ways in which sounds travel</li> <li>○ Students will</li> </ul> </li> </ul> <p><b>EALR: 2. INQUIRY:</b> The student knows and applies the skills, processes, and nature of scientific inquiry.</p> <ul style="list-style-type: none"> <li>• <b>Component: 2.1.</b> Investigating Systems: Develop the knowledge and skills necessary to do scientific</li> </ul>	