Seth Vanzant
Foss Lesson
05/13/07

Lesson Plan Title: Sound Challenges – The Physics of Sound Activity 4 (Foss)
 	
Grade 3
	Key Concept(s) in this lesson:
	• Physical Science
	  ○ Sound Receiver
	  ○ Sound Source
	  ○ Sound Travel
	• Key Vocabulary
	  ○ Amplify
	  ○ Megaphone
	  ○ Inner-ear
	  ○ Outer-ear

WHAT YOU WANT STUDENTS TO KNOW, BE ABLE TO DO, OR FEEL/UNDERSTAND

Lesson goal(s)

In Sound Challenges the Students Will:

- Observe that the outer ear is designed to receive sound.
- Compare different ways to make sounds louder and travel farther.
- Record observations of how sounds travel.
- Organize and communicate findings.
- Learn concepts that will contribute to understanding of the following theme: **Structure** and **Interaction**.

Specific Objectives

- Students will work in groups of 4 to complete sound challenge worksheets.
- Students will follow their assigned group roles to complete the worksheets and plan presentations.
- Students will understand how volume changes from source to receiver (ear) and how to amplify the source/reciever.
- Students will prepare presentations on their assigned sound challenge worksheets.

Standards addressed (EALRs, GLEs)

Science

EALR: 1. SYSTEMS: The student knows and applies scientific concepts and principles to understand the properties, structures, and changes in physical, earth/space, and living systems.

- **Component: 1.1.** Properties: Understand how properties are used to identify, describe, and categorize substances, materials, and objects and how characteristics are used to categorize living things.
- **GLE: 1.1.3.** Understand the behavior of sound in terms of vibrations, sound sources and receivers, and the behavior of sound
  - Students will describe experiences with sound (i.e., vibrations, volume, and sound travel).
  - Students will apply scientific concepts to understand that ways in which sounds travel
  - Students will

EALR: 2. INQUIRY: The student knows and applies the skills, processes, and nature of scientific inquiry.

- **Component: 2.1.** Investigating Systems: Develop the knowledge and skills necessary to do scientific