

GRADE THREE SCIENCE – UNIT D: HEARING AND SOUND UNIT PLAN

Students will:

3–9 Describe the nature of sound, and demonstrate methods for producing and controlling sound

Date	SLO <i>Students will:</i>	Activity
Nov 12, 2012	1. Identify examples of vibration 2. Recognize that sound is the result of vibration; and demonstrate that the larger the vibration, the louder the sound.	YouTube Video Soundscapes & What Makes Sound? Worksheet *Introduce Performance Task
Nov 13, 2012	2. Recognize that sound is the result of vibration; and demonstrate that the larger the vibration, the louder the sound.	Magic School Bus Clip Hearing Vibrations (ruler) Experiment
Nov 15, 2012	2. Recognize that sound is the result of vibration; and demonstrate that the larger the vibration, the louder the sound.	Tuning Fork Experiment
Nov 20, 2012	4. Recognize that pitch is the result of differences in the rate of vibration, and predict how a change in the rate of vibration will affect a sound.	Pitch Experiment <ul style="list-style-type: none"> • Plastic cup • Coffee can • Shoe box
Nov 22, 2012	3. Recognize that there are ways of measuring the loudness of sounds and that loud sounds pose a danger to the ear. 10. Recognize that certain sounds have characteristics that cause them to be interpreted as pleasant or unpleasant and identify these characteristics	Vibration and Pitch notes Decibel iPad app demonstration Measuring Loudness of Sounds Pleasant vs. Unpleasant Sounds
Nov 27, 2012	3. Recognize that there are ways of measuring the loudness of sounds and that loud sounds pose a danger to the ear. 8. Describe how the human ear senses vibrations. 9. Compare the range of hearing in humans to that in other animals; e.g., dogs and bats. 11. Describe the changes in hearing that result from continued exposure to loud noise and from the natural process of aging	Bill Nye Video Human Ear Role play Ear Notes Animal cut & paste Dice Roll Review Game
Nov 29, 2012	7. Identify examples that show that sound can travel through a variety of materials, including solids, liquids and air, and that sound travels in all directions. 12. Construct and evaluate different kinds of soundproofing and sound-amplifying devices.	Sound Travel Experiment **Hand out Study Sheet
Dec 4, 2012	13. Explain the role that sound plays in communication.	<i>A Riot of Quiet</i> Sign Language
Dec 4, 2012	3-9.1,2,3,4,7,8,9,10,11	WebQuest Review Hearingandsound.weebly.com
Dec 6, 2012	3-9.1,2,3,4,7,8,9,10,11,12,13	Unit Assessment
Dec 11, 2012	3-9.2,4,5,6	Performance Task: Let's Make Music