

First Grade Lesson Plan – Good Vibrations

Suggested time: 45 minutes

Lesson Snapshot:

In this lesson, students will explore the disciplinary core ideas: vibrating matter can make sound and sound can make matter vibrate.

Through planning and investigating, students will produce evidence to answer the question, “Can you make something move by using only sound?” Additionally, students will apply their knowledge of vibration to create a sound system.

The crosscutting concept of cause and effect is embedded into this lesson as students conduct investigations focused on sounds and vibrations.

Background Information:

Sound is a form of energy and travels as sound waves. Sounds can be created and heard when these sound waves travel through matter in the form of vibrations. Humans and animals can hear sound through their sense of hearing, which is made possible by ears. When vibrating air molecules (sound waves) reach the ear, the eardrum vibrates, producing sound. Instruments and voices produce vibrations that make sounds. Sounds also make objects vibrate. Depending on the strength and force of the vibrations, these vibrations can make other things (matter) move. For example, loud sounds can be so strong that their vibrations can cause a glass to break.

Fun Fact: Did you know, sound does not exist in space?!

Science, Technology & Engineering, and Environment Literacy & Sustainability (STEELS) Standard(s):

3.2.1.A: Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.

3.5.K-2.S: Apply design concepts, principles, and processes through play and exploration.

3.5.K-2.DD: Collaborate effectively as a member of a team.

Connections to Other Standard(s):

CC.1.5.1.A: Participate in collaborative conversations with peers and adults in small and larger groups.

CC.1.5.1.C: Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not understood.

Objective(s):

Students will plan and conduct investigations to provide evidence that vibrating matter can make sound and that sound can make matter vibrate.

Materials:

- *Ada Twist, Scientist* by Andrea Betty
- Sound vibration journal (at the end of this file)
- Small cup, bowl, or food storage container
- Cling wrap
- Sprinkles
- Rubber bands
- Trays (1 per group)

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Wolfgang Guggemos



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in education The approach combines high standards of scholarly research and analysis with the author s unique personal insights as evidenced by chapters entitled Education is Filling a Bucket and Lighting a Fire and Tiger Mothers Dragon Children Drawing on her experience as an education professional and a teacher of teachers Charlene Tan thoroughly examines and analyzes the people the policies and the practices that distinguish Shanghai educators The contents include comprehensive details on the Shanghai approach to quality education from discussion of the balance between centralization and decentralization to school autonomy and accountability to testing policy and professional development for teachers The book includes detailed tables on curriculum and school performance targets sample appraisal forms for teachers and students and dozens of photographs The author is an Associate Professor at the National Institute of Education Nanyang Technological University Singapore Current Index to Journals in Education ,2000

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