

**Project FOCUS
Best Lessons
FIRST GRADE**

Title of Lesson: Sound Causing Vibrations

Theme: Physical Science

Unit Number: Unit Title: Sound

Performance Standard(s) Covered (enter codes):

Enduring Standards (objectives of activity):

Habits of Mind

- Asks questions
- Uses numbers to quantify
- Works in a group
- Uses tools to measure and view
- Looks at how parts of things are needed
- Describes and compares using physical attributes
- Observes using senses
- Draws and describes observations

Content (key terms and topics covered):

senses - hearing, vibrations

Learning Activity (Description in Steps)

Abstract (limit 100 characters): To help children visualize the concept of vibration in relation to sound.

Details: It is necessary to make sure that there are several different sizes and thicknesses of rubber bands. Make sure that the class is divided into groups each member of each group has a cup and materials on their table they could use to design an experimental set-up. Once each student has a cup and several rubber bands are on each table, have the students stretch their rubber bands around their cups and listen to the sound it makes. Once they have played with this for a couple of minutes, tell them they will now explore different objects in the classroom such as an eraser, pencils, different rubber bands, etc., and observe the changes in sound using these objects for different experimental set-ups cause. Once they have each figured out a way to change the sound the vibrating rubber band makes, ask some of the children to share with the class their discovery. This allows them an opportunity to investigate into why the sound has changed and many students will be excited to share their discoveries with the class.

Materials Needed (Type and Quantity):

1. 1 cup/tin for each student
2. Rubber bands of different sizes and thickness

3. Any other materials found in the classroom (ex: pencils, pens, erasers, water, etc) that the children choose can be used in the experiment.

Notes and Tips (suggested changes, alternative methods, cautions):

Possible Questions

1. Where can we observe vibrations causing sound in our every day lives? 2. If vibrations change, what happens to the sound?

Sources/References:

- 1)
- 2)
- 3)