

Project FOCUS
Best Lessons
FOURTH GRADE

Title of Lesson: Sound and Hearing (Instruments)

Theme: Physical Science

Unit Number: 4 **Unit Title:** Sound & Light

Performance Standard(s) Covered (enter code):

S4P2. Students will demonstrate how sound is produced by vibrating objects and how sound can be varied by changing the rate of vibration.

- a. Investigate how sound is produced.
- b. Recognize the conditions that cause pitch to vary.

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):

Wind Instruments, Percussion instruments, sound, vibration, pitch, volume

Learning Activity (description in steps)

Abstract (limit 100 characters): Students will observe popular instruments and label them as percussion or wind instruments. Students will then describe what they hear and observe using the terms: sound, vibration, pitch, volume.

Details: Give each student one large piece of construction paper. Ask each student to draw four equal sections on paper. Give the students four different instruments and ask them to draw the instruments into each different section. Play a note or notes from each instrument. Students should label each instrument as percussion or wind instruments. Students should write how percussion and wind instruments make sound using the terms vibration, pitch, volume, etc.

1. Which instrument has the loudest pitch, volume?
2. How to vibration relate to pitch and volume for each instrument?
3. How to vary the pitch and volume for each instrument?

Materials Needed (type and quantity): Construction paper/Drawing paper, writing utensil, colored pencils/markers/crayons

Notes and Tips (general changes, alternative methods, and cautions): My students love arts and crafts, so incorporating drawing and music together really intrigued them. Definitely keep track of time; you want to make sure you have time for the students to elaborate on their observations through writing. If you students are more verbal, you can have them present their observations to the class. Be sure to monitor students, and make sure that they are on task.

Sources/References:

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