



iPhone video take from inside a guitar.



Ways acoustical engineers dampen sounds.



Modeling vibrations with tuning fork.

Kindergarten STEM --- Five Senses Unit: Sound

What are some ways that acoustical engineers can dampen (quiet) sounds?

Inspired by EIE.org Sounds Like Fun

Student's worksheets.

Noise Level Chart

1	Voices Off
2	Whisper
3	Quiet Talk
4	Loud Voice
5	Presenting
6	Outside

Damping Material	Circle ○
Nothing	1 - 2 - 3 - 4 - 5 - 6
Felt (1 piece)	1 - 2 - 3 - 4 - 5 - 6
Felt (3 piece)	1 - 2 - 3 - 4 - 5 - 6
Aluminum Foil (1 piece)	1 - 2 - 3 - 4 - 5 - 6
Aluminum Foil (3 piece)	1 - 2 - 3 - 4 - 5 - 6

Categories students respond when speaking.



Name a Fruit



Name an Animal



Pick a Color



Name of Family Members



Name a Sport



Spell your name

Student engineering project, making sound horns.

Tests:

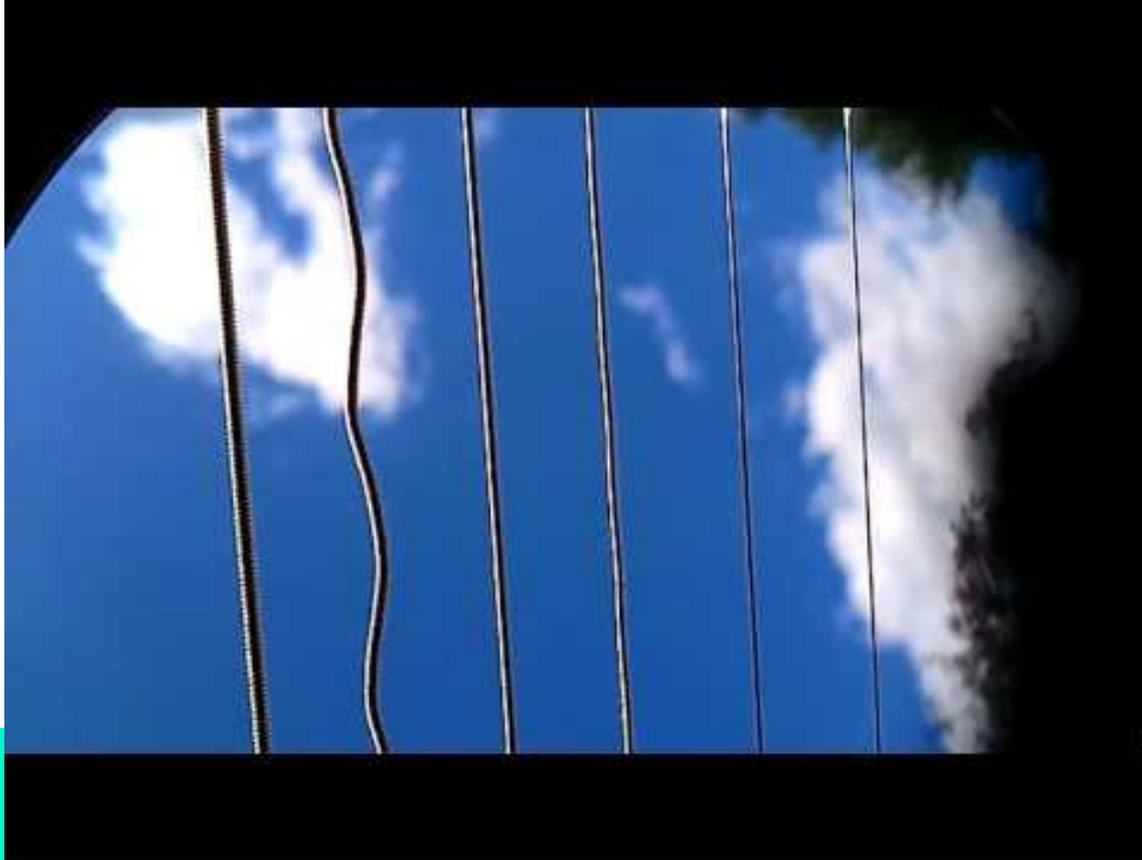
- Nothing
- 1-felt
- 3-felt
- 1-foil
- 3-foil



Goal:

1. How well can you hear the sound "hello?"
2. Which worked best at to damp the sound? Why?
3. Which did not work to damp the sound? Why?

Predict: Where should you place the material to stop the vibrations? Why do you think so?

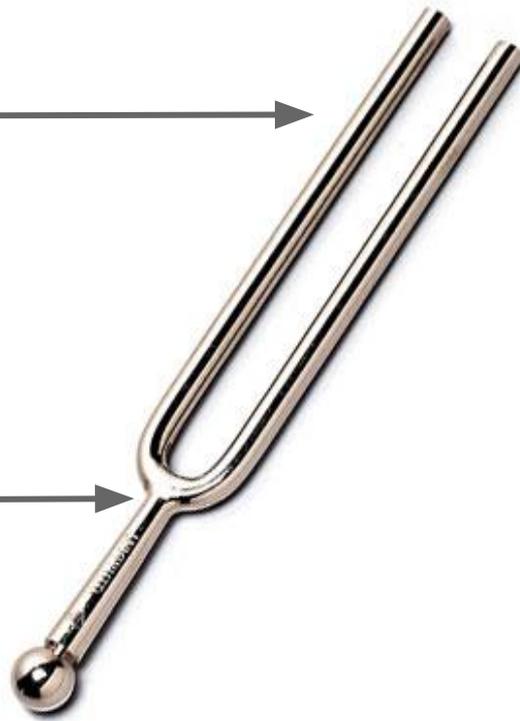


Seeing Vibrations in Sounds

**Tap this end
against your
knee**



Hold here



Instructions:

1. Hold one-hands-width away from your ear.
2. Hold 3-fingers width away from your cheek.
3. Hold it against your cheek.

Sounds come from vibrations.

1. How does the sound change as you bring it closer to your ear?
2. How does your cheek feel when you the tuning fork is near?
3. What happens to the tuning fork and sound when it touches your cheek?



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Making Sound Horns

Name: _____

Class: KA or KB

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© Miss Giraffe's Class

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Name a Fruit

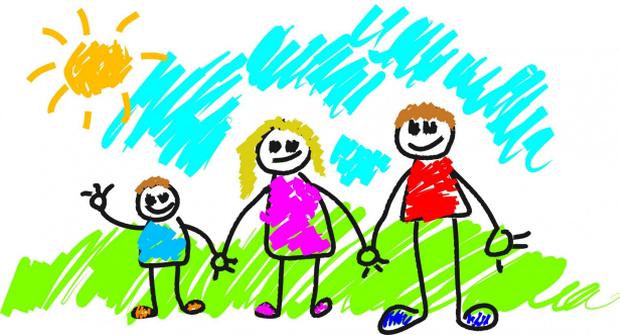


Name an Animal



Pick a Color

Name of Family Members



Name a Sport



Spell your name

Hello
my name is

