

What is a Sound's Volume?

****Teacher's note**** --striking an object with less force decreases volume and makes a softer sound.

Make sure the cans have no sharp edges!

What you need:

- rubber bands
- can

What you do:

- Hold the rubber band carefully! Stretch the rubber band around the can, across the open end.
- **EXPERIMENT:** Use your finger to pluck the rubber band. Try ways to make the sound louder or softer.
- **RECORD DATA:** Write what you did differently each time and how it sounded. Use the chart below or one like it.

Think and write:

- **COMPARE:** How did you change the volume?
- Did plucking the rubber band harder change the **PITCH**? How do you know?

Guided inquiry

- **EXPERIMENT:** Discuss with a group how to change the volume of sounds made by different objects. Work together to follow a group member's plan.

Informal assessment questions:

Name another way you could use the can or rubber band to make a loud and soft sound. (Tap the can lightly to make a soft sound and with more force to make a loud sound.)

What sound would you make if you banged two cans together gently and then with more force? (The cans would make a soft sound and then a louder sound.)

GLE 0207.11.2 Classify sounds according to their loudness and pitch.

GLE 0207.11.1 Investigate how vibrating objects produce sound

✓ **0207.11.1** Use a variety of objects that vibrate to demonstrate how sounds are produced.

✓ **0207.11.2** Describe the sounds produced by different types of vibrating objects

What I did	What I heard

What I did	What I heard