

Vibrating Sounds

WHAT YOU NEED



1 meter of
string



wire coat
hanger



spoon

Find Out

Do this activity to see how sound moves.

Process Skills

Observing
Communicating

Time

- 20–30 minutes to get started
- 10 minutes a day for one week

Note that students should work in small groups or with a partner.

WHAT TO DO

1. Wrap one end of the string around each of your index fingers.
2. Put your fingers gently in your ears. Part of string should be between fingertip and ear.
3. Have your partner hang the hanger on the string.

4. Have your partner tap the hanger with the spoon.
5. **Record** what you **hear**.
6. Repeat, tapping the hanger with a different object each day.



Object Name	Draw the Object	What did it sound like?
spoon		

Student data will vary.

Conclusions

1. What did you hear for each object?

Answers will vary based on the objects used to strike the hanger, but each

should have produced a vibrating sound.

2. How were the sounds different?

Answers will vary based on the objects used to strike the hanger, but may

indicate differences in pitch or volume.

New Questions

1. What would you hear if you changed the length of the string?

Answers will vary but should indicate an understanding that the length of

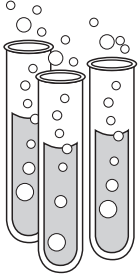
the string does affect the sound.

2. Write a question you still have about sound.

Accept all reasonable questions.



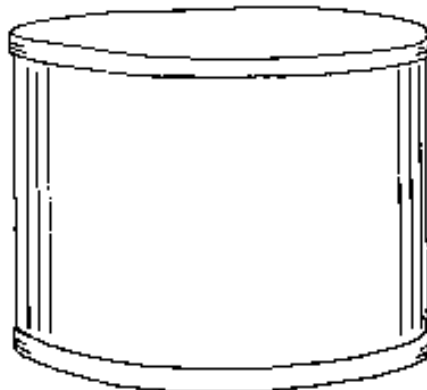
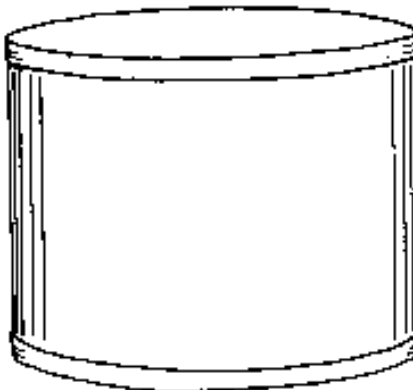
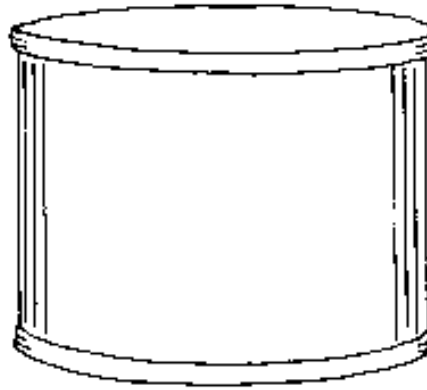
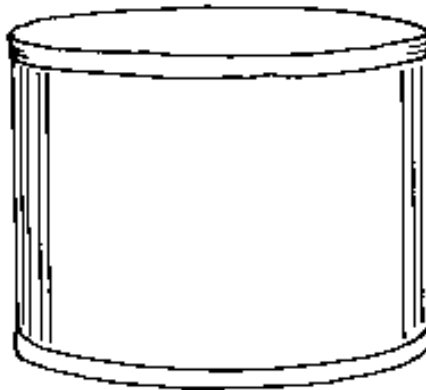
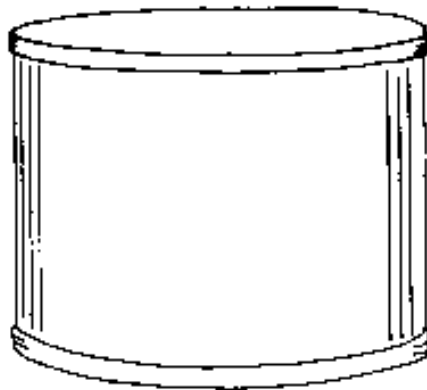
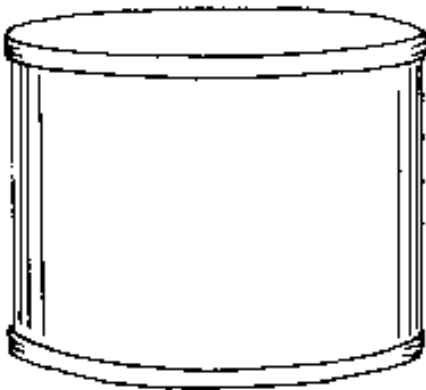
Name _____



ACTIVITY

Hearing Sounds

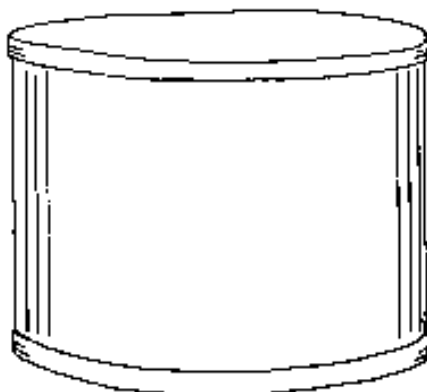
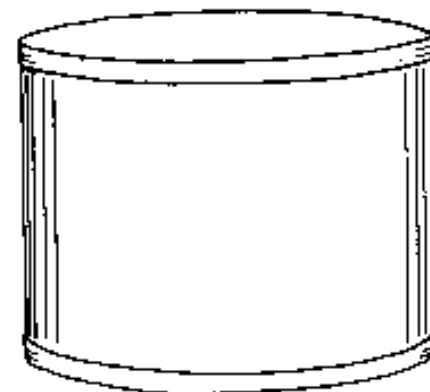
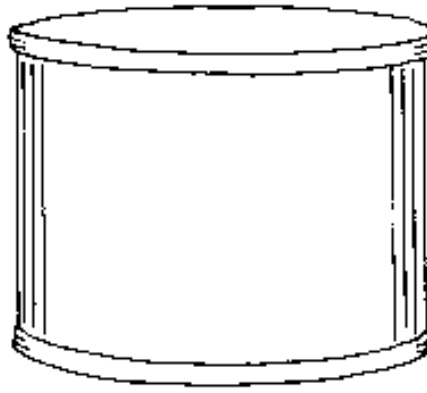
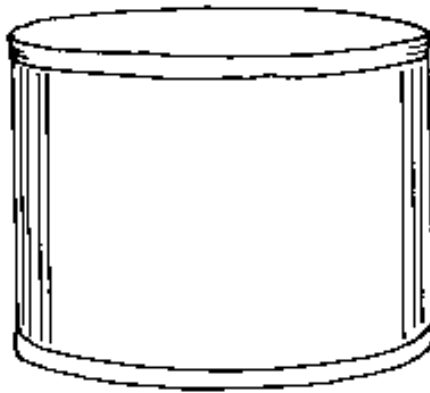
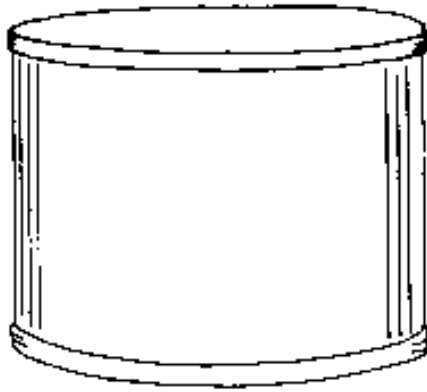
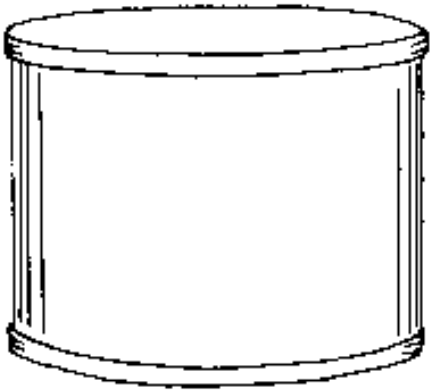
Draw the things that made loud sounds.



Students should draw the things that sounded loud to them when shaken.

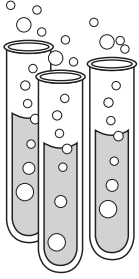
Name _____

Draw the things that made soft sounds.



Students should draw the things that sounded soft to them when shaken.

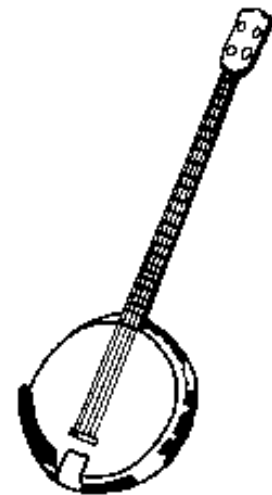
Name _____



ACTIVITY

Making Different Sounds

Draw the instrument you made.



Answers will vary. Accept all reasonable answers.

Activity Journal

Lesson 2 • Sound Vibrations

Name _____

Draw each rubber band.

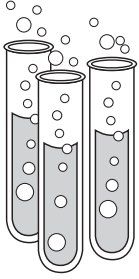
Tell what sound each rubber band made.

Write *high* or *low*.



Answers will vary. Students should note that the thinnest rubber band makes the highest sound.

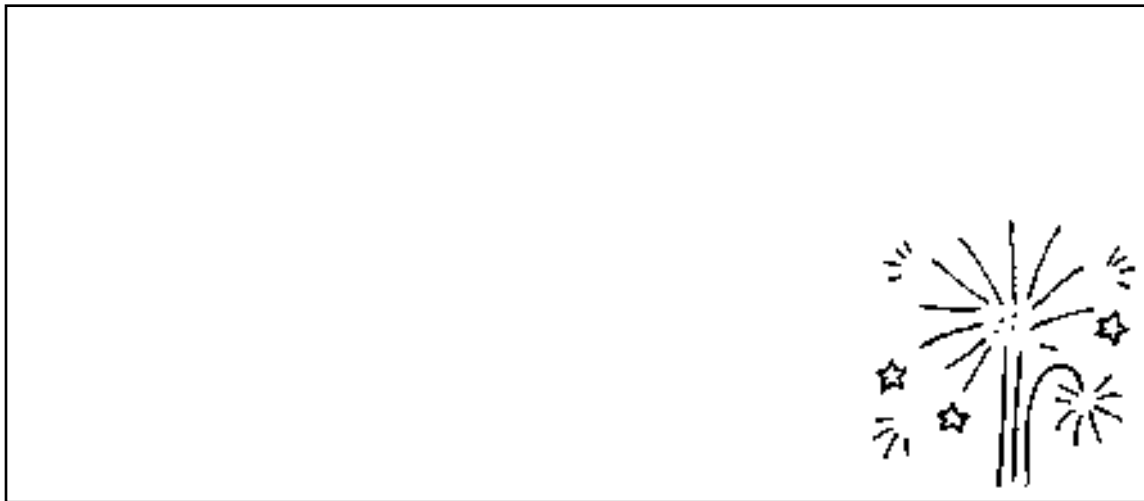
Name _____



ACTIVITY

How Sounds Travel

Draw a picture of something that makes a loud sound.



Draw a picture of something that makes a soft sound.



Activity Journal

Lesson 3 • Sound Travels

Name _____

Stand in front. **Tell** about the sound.
Circle the word that best describes it.

loud **soft**

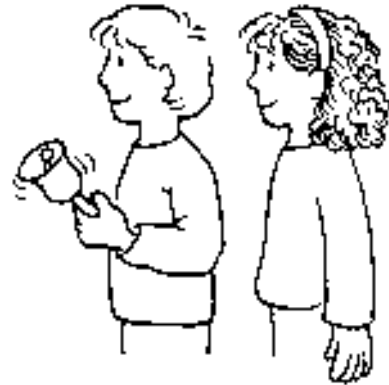
loud



Stand behind. **Tell** about the sound.
Circle the word that best describes it.

loud **soft**

Answers will vary. Accept all reasonable answers.



Stand far away. **Tell** about the sound.
Circle the word that best describes it.

loud **soft**

soft

