

Chapter 20

Use with Section 2

ENRICHMENT**• The Senses****The Ears Hear Vibrations****Materials**

metal spoon
 string
 scissors
 ruler

Procedure

1. Cut a length of string 60 cm long.
2. At the center of the length of string, fasten the spoon by tying a knot.
3. Ask a friend to help. Stand by the kitchen sink with your index fingers in each ear. Ask a friend to hold the string by its ends and tap the spoon against the side of the sink. Listen to the sound of the spoon.
4. Now take the string and spoon back from your friend and wrap the ends of the string two or three times around your index fingers. Then place your fingers in your ears as before and tap the spoon against the same place in the sink. Listen to the sound of the spoon again.

**Observations**

Describe the difference in sounds between steps 3 and 4. _____

Conclude and Apply

1. How does an object make sound? _____

2. In step 3, the sound traveled through the air. How did it travel in step 4? _____

3. How is the process in step 4 like sound moving from the outer ear to the inner ear?
