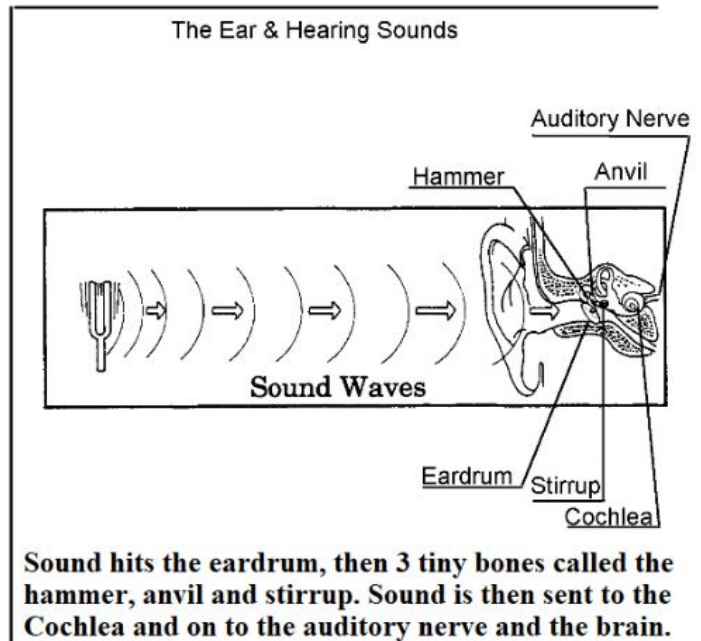
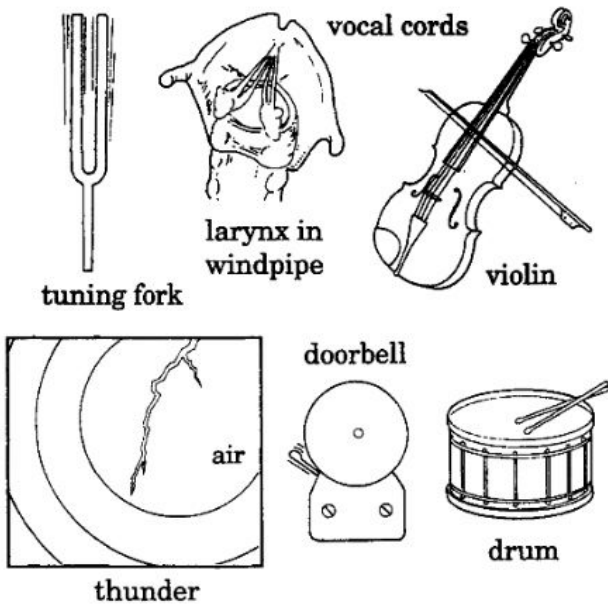


Sound

Sound waves are the result of vibrations.

1. In each picture drag and drop an X on the part that vibrates to produce sound.

X X X X X X



2. Name the part on each object that vibrates to produce sound:

- | | |
|---------------------------|---------------------------|
| a. church bell <u>the</u> | d. wind chime <u>the</u> |
| b. radio <u>the</u> | e. dog barking <u>its</u> |
| c. piano <u>the</u> | f. guitar <u>the</u> |

3. Write the word or words that will make each sentence a true statement.

- Sound waves are the result of _____ in the air or other media.
- An object will no longer produce sound waves when it has stopped _____.
- Vibrating objects send out _____ or longitudinal waves that can travel through solids, liquids, or gases but not through a _____.
- The vibrations of the eardrum cause tiny _____ in the inner ear to vibrate.
- The _____ nerve relates sensation to the brain, which interprets the stimulus.

4. Describe how we hear sound from a ringing bell. Sound from the bell travels to our ears in **compressional or longitudinal transverse** waves. Those waves hit the _____ which transfer it to three tiny _____ called the hammer, anvil and stirrup. The stirrup makes the Cochlea sense vibrations which are sent to the auditory nerve and on to your _____.

5. Which property of sound allows our brain to distinguish one sound from another?