

Sound and Vibrations

READ ALOUD PASSAGE

All sound is caused by vibrations. A vibration is a rapid back-and-forth movement. When an object vibrates, it makes the air around it vibrate too, and those vibrations travel through the air to your ears. Without vibrations, there would be no sound.

The pitch of a sound tells us how high or low the sound is. Pitch depends on how fast something vibrates. When something vibrates very fast, it makes a high-pitched sound. When something vibrates slowly, it makes a low-pitched sound. You can see this with a rubber band. A tight rubber band vibrates fast and makes a higher pitch. A loose rubber band vibrates slowly and makes a lower pitch. The loudness of a sound depends on how big the vibration is. A bigger, wider vibration makes a louder sound. A small, gentle vibration makes a soft, quiet sound.

You can feel vibrations too. If you place your fingertips lightly on your throat while you hum, you can feel the vibrations of your vocal cords. The vibrations of your vocal cords are what create your voice.

Activity 1: Word Sort Challenge

Sort the words in the box. Write each word under the right heading.

WORD BANK

makes throat air vibrates sound voice rubber band travel feel hum

Nouns

Verbs

Activity 2: Fix the Run-On

Each of these is really two sentences squished together. Rewrite it the right way.

1. A vibration is a rapid back-and-forth movement it makes the air vibrate too.

Correction:

2. A tight rubber band vibrates fast it makes a high pitch.

Correction:

Activity 3: Finish with a Joining Word

Finish each sentence. The word in bold tells you what kind of idea to add.

1. The rubber band made a low sound **when** _____.

2. You can feel your throat vibrate **while** _____.

3. The air vibrates **after** _____.
