

An illustration of a hand playing a stringed instrument, possibly a guitar or ukulele. The hand is shown in profile, with the index finger pressing down on one of the strings. The strings are depicted as grey lines, and several red dots are placed along them, representing frets or points of vibration. The background is a light brown color, and the entire scene is framed by a yellow border with musical notes and various instruments like a guitar, trumpet, and drum.

Good Vibrations

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What is Sound?



Did you come up with some words to explain how the musical instruments make sounds?

Look at the words below. Did you choose any of these words?

Vibrate

Vibration

Twang

Blow

Bang

Scrape

Shake

Pluck

Vibrations



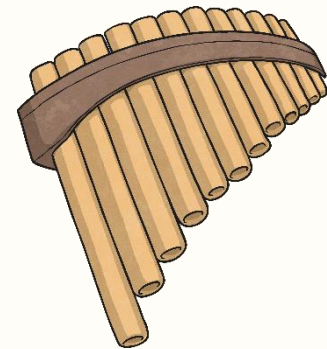
All the instruments are played in different ways, but they all have something in common. They all create sounds by vibrating.

The strings of the guitar and the gopichand vibrate when they are plucked.

The pan pipes and horn are filled with air, which vibrates when they are blown.

The balafon and the bongos make sounds when they are hit or banged, causing the blocks or the skin to vibrate.

But what is a vibration?



Vibrations



We can see and feel vibrations whenever sounds are made.

Gently place your hand on your throat.

Say 'Ah!'

Can you feel the vibrations from your vocal cords?

Ahh

The page features a decorative border with various musical instruments and notes. At the top and bottom, there are illustrations of a red and white drum, an acoustic guitar, a brass instrument (trumpet or trombone), a wooden xylophone, a silver flute, and a CD. On the left and right sides, there are vertical lines of musical notes, including eighth and sixteenth notes, and a treble clef.

School/Home Sound Survey

Around school and at home, there are lots of different sounds. Some places will be noisy, whereas some places will be quiet. The loudness of the different places will even change throughout the day!

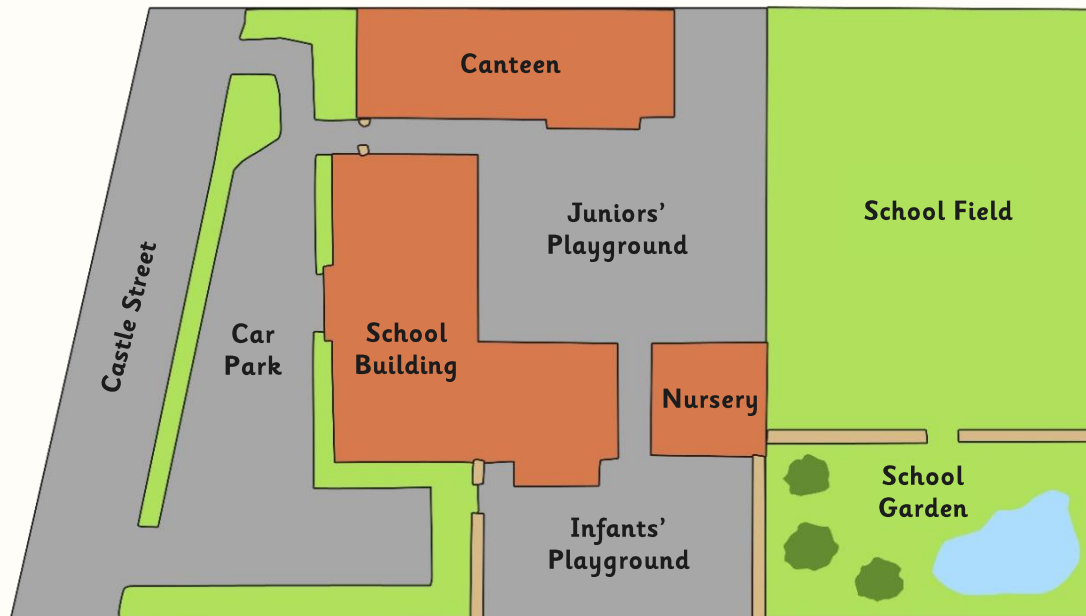
You are going to carry out a sound survey of your school or home to find which places are noisy and which are quiet at different times of day. You may decide to rate each place out of 5, with 5 being very noisy and 0 being totally silent.

School Sound Survey

Use a map of the school or draw a map of your home to decide which places you are going to visit.

Then visit each place with your group and either rate the noise level out of 5.

Make a note of this on your map.



Explaining Sounds

On your School Sound Survey Activity Sheet, make a list of the sounds you could hear in the noisiest place you visited around school. For each one, think about what was vibrating to make that sound.

Complete the table on your activity sheet.

School Sound Survey

Describe the sounds you could hear in the place you visited in your school, and explain what was vibrating to make each sound.

What sounds could you hear?	What was vibrating to make the sound?

What was the noisiest place that you visited around your school?

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School Sound Survey

Describe the sounds you could hear in the place you visited in your school, and explain what was vibrating to make each sound.

What sounds could you hear?	What was vibrating to make the sound?
A bell ringing.	The metal of the bell.

What was the noisiest place that you visited around your school?

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School Sound Survey

Describe the sounds you could hear in the place you visited in your school, and explain what was vibrating to make each sound.

What sounds could you hear?	What was vibrating to make the sound?	Suggestions:
		• People's vocal chords.
		• The floor.
		• The air.
		• The table.

What was the noisiest place that you visited around your school?

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Science Year 4 | Sound: Good Vibrations | Lesson 1

