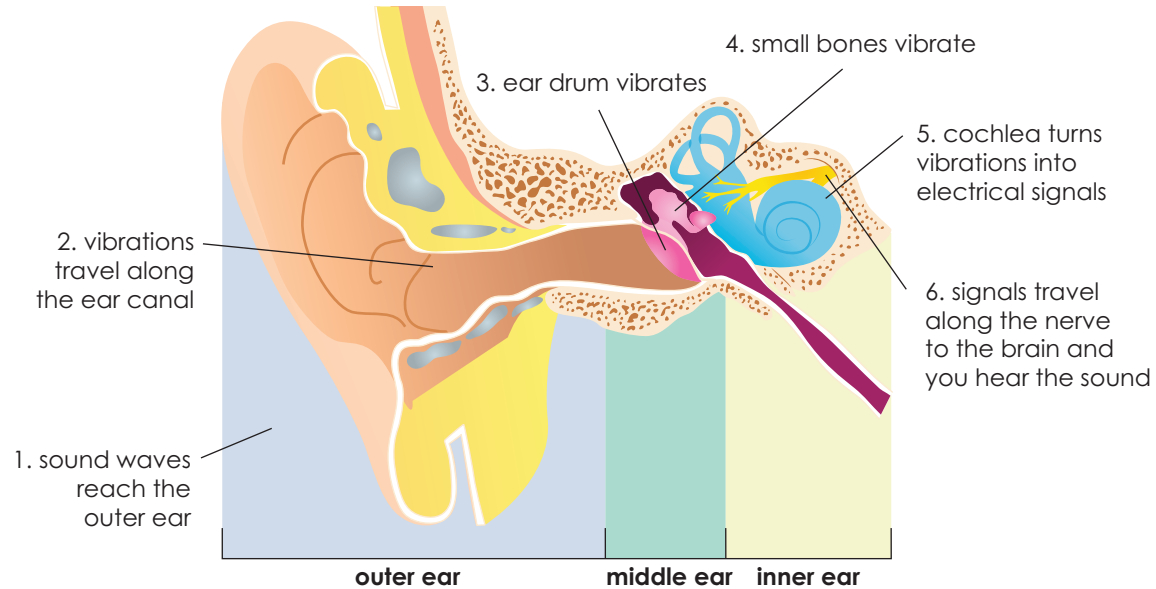


Sound

All sound is made by vibrations.

Hearing sounds

Your ears allow you to hear things.



It is important to protect your hearing from very loud noises.

Sound can travel in waves through different states of matter.

State of matter	Example
Solid	Wood
Liquid	Water
Gas	Air

Musical instruments

All instruments make sounds by vibrating. This can be by:

vibrating your vocal cords



Musical instruments can be made from lots of things, including fruit and vegetables, boxes, tubes, elastic bands, and bottles.

Instruments can make high and low sounds.

Volume

Volume means how loud or quiet a sound is:

- Strong vibrations produce loud sounds.
- Weak vibrations produce quiet sounds.

The further away from the source you are, the quieter the sound you hear.

Pitch

Pitch describes how high or low a sound is:

- Faster vibrations produce a higher pitch.
- Slower vibrations produce a lower pitch.

Word	Definition
cochlea	A spiral-shaped bone in the inner ear.
distance	The length of space between two places.
ear canal	The pathway between the outer ear and inner ear.
eardrum	A thin flap of skin stretched between the outer ear and middle ear.
gas	One of the three states of matter, for example, air is a gas.
inner ear	The most internal part of the ear.
liquid	One of the three states of matter, for example, water is a liquid.
middle ear	The middle part of the ear.
musical instrument	An instrument that you use to play music.
nerve	A pathway that carries messages to the brain.

Word	Definition
outer ear	The first part of the ear, which is mostly on the outside.
pitch	Pitch is a measure of how high or low sound is.
solid	One of the three states of matter, for example, ice is a solid.
sound	Something that can be heard—caused by vibrations.
sound waves	The wavy pattern of vibration when sound travels.
vibrate	The shaking and tremors from a vibrating object.
vibrations	When something is moving quickly back and forth.
volume	How loud or quiet a sound is