



How We Hear

The Amazing Journey of Sound!



Key Words to Know



Auditory

Auditory: Term for hearing.



Eardrum

A tight skin inside your ear that vibrates when sound hits it.



Signal

Ear-to-brain message, like a text.



Protection

Keeping your ears safe from very loud noises.

The Journey Begins



Catching the Sound

Sound waves travel through the air just like ripples in a pond.

Your **outer ear** acts like a funnel. It catches these sound waves and funnels them into the ear canal.

It's like catching a ball in a glove!



Down the Ear Canal

The Tunnel

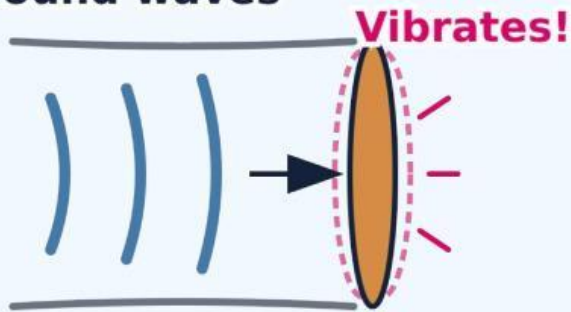
Once the sound is caught, it travels down a tunnel called the **ear canal**.

This is the place where you put earplugs!
The sound waves move deeper and deeper until they hit the end.



Meet the Eardrum

Sound waves



Eardrum

A Tiny Drum

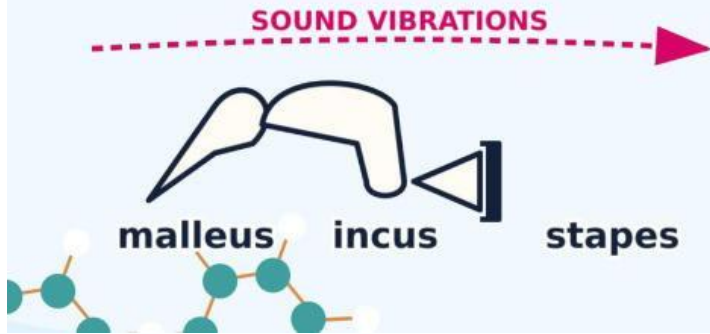
At the end of the canal is the **eardrum**. When sound waves hit it, the eardrum wobbles or **vibrates**, just like a real drum skin when you bang it! This is the first step in turning sound into something your brain understands.



Inside the Middle Ear

The Ossicles - Stirrup

These are the three tiniest bones in your body! They pass the vibration along.



The Amplifier

The bones make the vibration stronger, like turning up the volume.



Sending the Signal

Cochlea



Tiny hairs move

Nerve

Sending signals



Brain

Hears the sound



Hello, Brain!

Decoding the Message

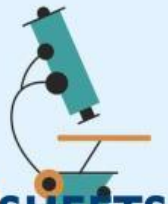
The inner ear changes the vibrations into **electrical signals**.

These signals zip along a special nerve to your **brain**.

Your brain tells you: "That's a dog barking!" or "That's the school bell!"




Watch It Happen



Quick Check

The eardrum _____ when sound waves hit it. The ear sends a _____ to the brain so we can understand sound.

Word bank 

vibrates, signal, sleeps, picture


Answers on the next slide

LIVEWORKSHEETS

Quick Check



The eardrum **vibrates** when sound waves hit it. The ear sends a **signal** to the brain so we can understand sound.

Word bank 

vibrates, signal, sleeps, picture



Protect Your Ears!



Too Loud is Bad!

Very loud noises can hurt the tiny parts inside your ear.

Stay Safe

- Turn down music on headphones.
- Wear ear protection at loud concerts or fireworks.

Once your hearing is damaged, it might not come back!



Animal Ears



Different animals have different ears to help them hear in special ways.

Where is the Sound?



Why do you think a rabbit's ears are so long and can move?
How does this help them stay safe?



Where is the Sound?



You might have said...

Long ears catch more sound waves.
Moving ears helps them find the direction of sounds.
It helps them hear predators coming from far away.

