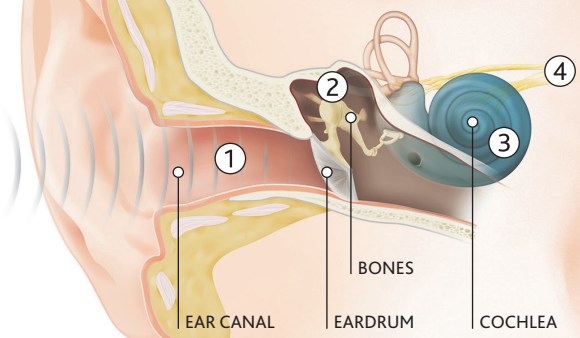
# HOW HEARING WORKS

# NATURAL HEARING

**Sound is perceived naturally by way of air and bone conduction.**

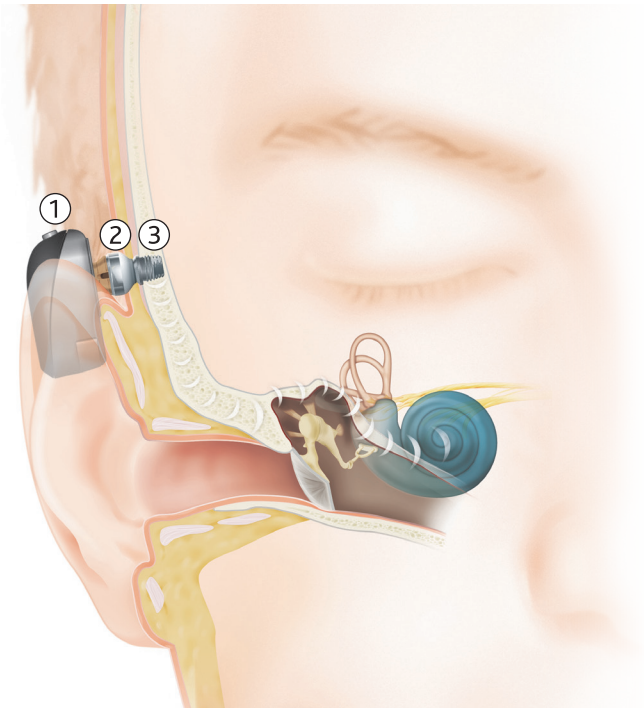
1. Sound waves travel through the ear canal and strike the eardrum.
2. These sound waves cause the eardrum and the three bones within the middle ear to vibrate.
3. These vibrations are transferred to the fluids in the inner ear – known as the cochlea – and cause the tiny hair cells in the cochlea to move.
4. The movement of the hair cells produces neural impulses which are sent along the hearing nerve to the brain, where they are interpreted as sound.




ACTUAL SIZE
OF THE COCHLEAR

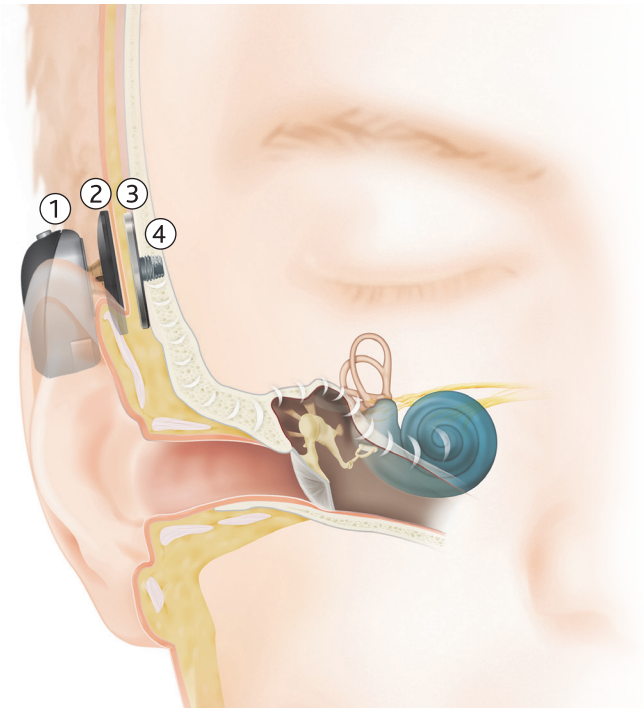
# HOW HEARING WORKS

# WITH A BONE CONDUCTION IMPLANT




**The Baha Connect System sends sound signals via bone conduction, naturally stimulating the inner ear. The system consists of:**

1. Sound processor that detects sound and transforms it into vibrations.
2. Abutment that connects the sound processor to the implant.
3. Implant that transfers sound vibrations directly to the inner ear.




**The Baha Attract System sends sound signals via bone conduction, naturally stimulating the inner ear. The system consists of:**

1. Sound processor that detects sound and transforms it into vibrations.
2. Sound processor magnet that transfers the vibrations from the sound processor through the skin to the implant magnet.
3. Implant magnet that attracts the sound processor magnet and receives the vibrations.
4. Implant that transfers sound vibrations to the inner ear.

For more information, visit www.cochlear.com/uk