

Fill in the gaps using the words in the boxes:

Sound waves are funnelled into our ear  by the pinna.

The sound waves make our ear drum .

Vibrations of the ear drum cause the 3 small bones in the ear, collectively called the , to move.

As the last bone in the chain, the , vibrates this causes wave like movements to be generated in the  inside the cochlear.

These waves stimulate microscopic  inside the cochlear.

The hairs in the cochlear are tuned to respond to differences in sound  and .

When stimulated these hair cells generate  impulses that are transferred to the auditory nerve.

The nerve impulses travel along the  nerve into the hearing centre of the , called the auditory cortex.

The auditory cortex converts the nerve impulses into the  that we hear.

canal

hairs

sound

stapes

ossicles

auditory

nerve

fluid

pitch

vibrate

frequency

brain