

Section 1: Perceiving sound



This is what I know now!

I can perceive many sounds with my ears. Because we have two ears we can identify the direction and the distance the sounds come from.

Draw an experiment from section 1:

What did you discover?

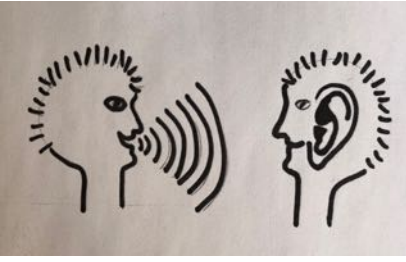
How do I hear sounds?



The _____ (1) catches the sound waves and directs them into the _____ (2).

1) pinna 2) ear canal 3) eardrum 4) auditory ossicle 5) cochlea 6) auditory nerve

Section 2: Generating sound



This is what I know now!

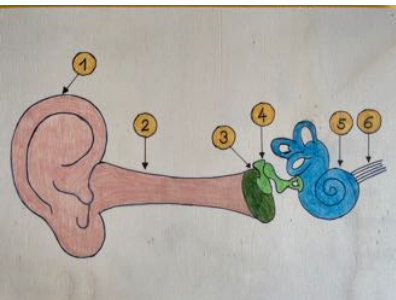
Something has to vibrate for a sound to be produced. I can see or feel many vibrations.

Draw an experiment from Section 2:



What did you discover?

What vibrates in my ear?



The sound waves cause the _____ (3)
to vibrate. The eardrum directs the vibrations to the
_____ (4)
and then to the _____ (5).

1) pinna 2) ear canal 3) eardrum 4) auditory ossicle 5) cochlea 6) auditory nerve

Section 3: Exploring sound



This is what I know now!

Every sound is spread by sound waves. **Air, water and solid materials** can transmit sound waves. Some materials transport sound better than others.

Draw an experiment from section 3:



What did you discover?

How are sound waves transmitted in my ear?



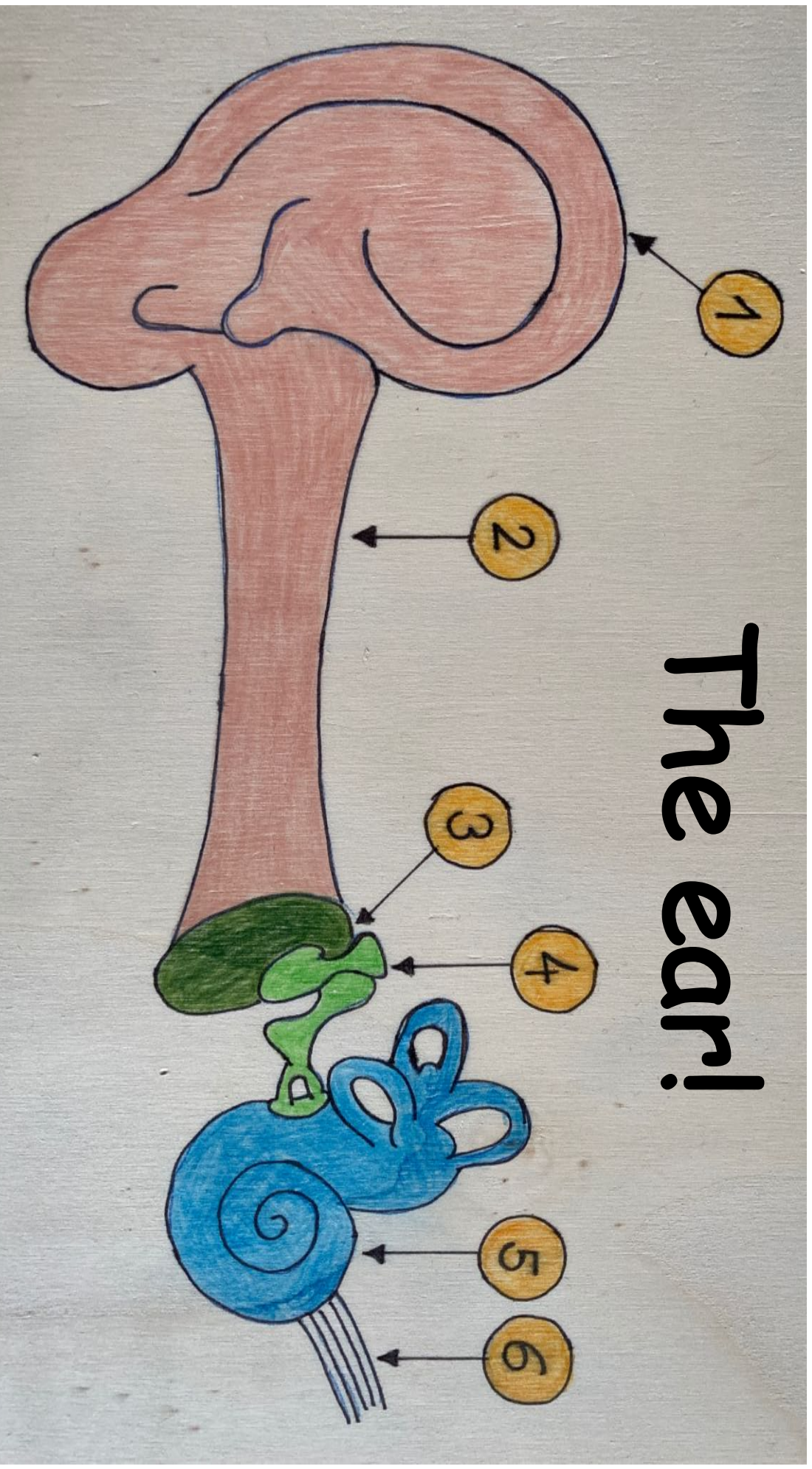
In the pinna (1) and auditory canal (2), sound waves are transmitted **through the air**.

After that it continues **through the solids**, the eardrum (3) and the auditory ossicles (4).

Then the sound is transmitted **via the fluid** in the cochlea (5) to the _____.

1) pinna 2) ear canal 3) eardrum 4) auditory ossicle 5) cochlea 6) auditory nerve

The ear!



1) pinna
2) ear canal

3) eardrum
4) auditory ossicle

5) cochlea
6) auditory nerve