

VIDEO « The journey of sound to the brain » 2'26

Watch, listen and do the tasks below.

1. Listen, watch and label the « ear » diagram
2. Listen to part 1 (→ 0'55) and explain the roles of :

– the outer ear :

– the eardrum :

- the ossicles :

3. Listen to part 2 (→ 1'38) :

- What do you know about the cochlea ?
- Complete the following passage :

In the cochlea, hair-like structures called stereocilia sit on top of _____ and are grouped together as hair cell bundles. The hair cells ride the _____ and hair bundles are _____. These movements are _____ signals.

Ions rush into the _____ of the hair cells, causing the release of _____ at the bottom and create an _____ which _____ along the _____ to the _____.

4. Listen to part 3 (→ 2'26) :

Explain the rôle played by the hair cells depending on their location in the cochlea.

Name the 5 musical instruments mentioned and sort them from the highest pitch to the lowest .

Explain what happens in the brain.