

4th GRADE MINIMUM CONTENTS- NATURAL SCIENCE

UNIT 3: OUR SENSES – HEARING

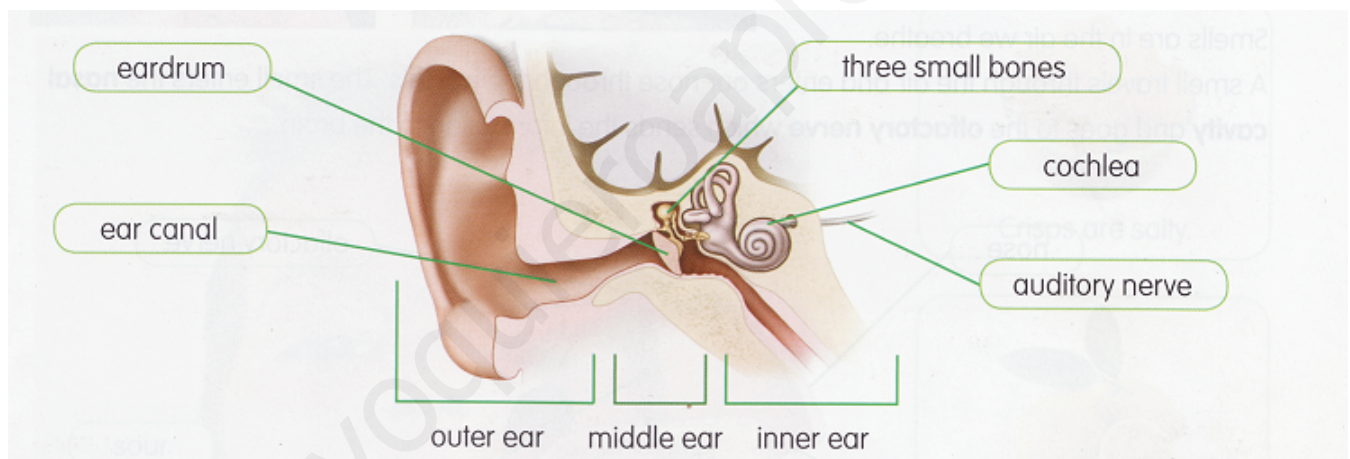
► HEARING

We use our ears to **hear** different **sounds**. Our **ears** are our sense organs of hearing.

The ear has three parts:

The **outer ears** are on the sides of your head.

The **middle ear** and the **inner ear** are inside your head. They are very delicate. The inner ear contains the smallest bones in the human body.



How we hear sound

1. Sound vibrates. The sound vibrations go into the **outer ear** and along the **ear canal**.
2. The vibrations reach the **eardrum**. It vibrates.
3. The vibration of the eardrum moves the **three small bones**. They make the sound louder.
4. The sound then goes to the **cochlea**.
5. The cochlea sends the sound through the **auditory nerve** to the brain.

► HEARING: DISORDERS OR DISEASES

The main problems with our ears are **otitis** (inflammation of the middle ear) and **deafness**.

There can be many causes of deafness. You can be born deaf or you can go deaf due to exposure to loud noise for many years.

► LOOK AFTER YOUR EARS

- Always dry your ears after a shower or a swimming to make sure there is no water in them.
- Do not listen to very loud music or other loud sounds.
- Do not push objects into your ears.
- Visit an ear, nose and throat specialist (ENT) once a year for a checkup.

UNIT 3: OUR SENSES - HEARING

ACTIVITIES

1.- Label the diagram of the ear.

A _____

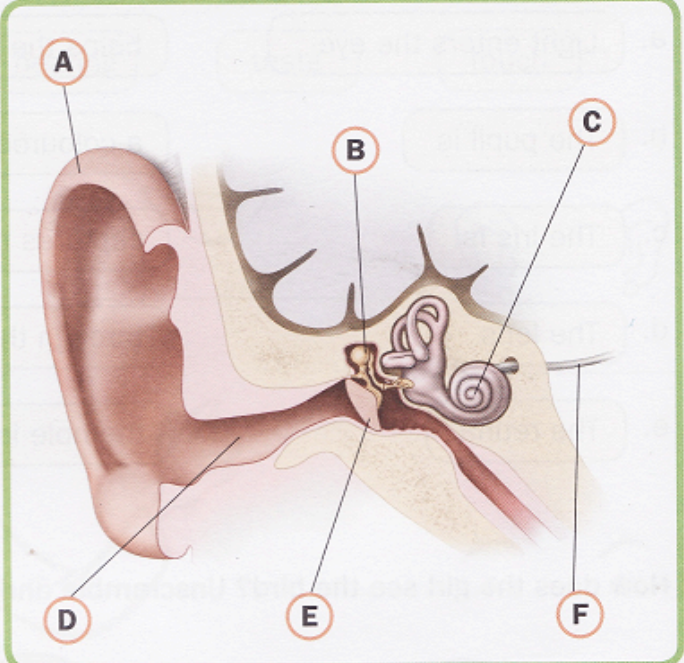
B _____

C _____

D _____

E _____

F _____



2.- Classify the parts of the ear.

Small bones - ear canal - cochlea - eardrum - pinna

Outer ear

Middle ear

Inner ear

3.- Put the sentences in order to describe how sound reaches the brain.

_____ The cochlea sends the sound through the auditory nerve to the brain.

_____ The brain interprets the information.

_____ The sound captured by the ear is received by the cochlea.

4.- Read and circle the parts of the ear. Then, use the words to complete the text.



Sound vibrations go into the and along the.....

The vibrations reach the..... It vibrates. The vibration of the eardrum moves the They make the sound louder.

The sound then goes to the..... which sends the sound through the to the brain.

5.- Complete your bilingual dictionary.

HEARING		
- Hear : _____	- Eardrum : _____	- Cochlea : _____
- Sound : _____	- Ear canal : _____	- Brain : _____
- Ear : _____	- Three small bones : _____	- Make : _____
- Outer ear : _____	- Auditory nerve : _____	- Send : _____
- Middle ear : _____	_____	- Vibrate : _____
- Inner ear : _____	_____	-- Reach : _____