

Fill in the gaps using the words in the boxes:

The visible part of the ear is called the or the auricle. The auricle is made of cartilage.

The outer ear is concerned with the transmission of and consists of the pinna, the ear canal and the outer layer of the eardrum, also called the membrane.

The ear canal is filled with and is about 2.5cm long.

The skin surrounding the ear canal contains glands that secrete ear wax. Ear wax is part of the ears mechanism.

The middle ear is a small air filled space connecting the outer and inner ear.

The primary function of the middle ear is to conduct sound waves through the tympanic membrane to the via the ear bones. The ear bones are the 3 smallest bones in the body, they are called the hammer (malleus), anvil (incus) and stirrup (stapes). These bones are collectively known as the . Sound waves cause them to vibrate.

The inner ear has 2 main functions, to convert sound waves into electrical signals for the brain and to maintain by detecting position and motion.

The inner ear has 3 main parts, the cochlea, the semi-circular canals and the vestibule.

The cochlea is filled with and acts like a microphone, converting sound waves to nerve impulses that travel to your brain via the nerve.

The vestibule and semi-circular canals both help you to balance.

cochlea

sound

liquid

pinna

protection

air

ossicles

tympanic

auditory

balance