**Yr 9 Science Sound – Ear structure and function**

**1a** Label the following structure of the ear.



**f**

**d**

**c**

**e**

**h**

**g**

**b**

**a**

**1b** State the function of the following structures.

1.

2. Match the following terms with their appropriate function by placing the appropriate letter next to each statement.

|  |  |  |  |
| --- | --- | --- | --- |
| A  | Organ or Corti  | Directs sound waves into the auditory canal. |  |
| B | Malleus, incus & stapes | It equalises the pressure in the middle ear and allows tympanic membrane to function properly. |  |
| C  | Pinna  | Filled with fluid and contains the Organ of Corti. |  |
| D  | Auditory nerve | A thin flexible membrane that separates the outer and inner ear and serves to transform sound energy into mechanical energy. |  |
| E  | Cochlea  | This structure contains many specialised sensory hair cells called cilia. |  |
| F  | Tympanic membrane (eardrum) | Transfers auditory information from the cochlea to the brain. |  |
| G  | Semi-circular canals | Filled with fluid and contains sensory hairs that detect the position of the head and allows maintenance of balance. |  |
| H  | Eustachian tube | They transmit sound from the outer ear to inner ear. |  |