Human Ear and Sense of Hearing
Worksheet

Instructions for VIVED Science

1. Open the Human Ear session and follow the instructions.

2. Complete the Human Ear worksheet as you progress through the session. Draw a cross section of the ear and label its parts.

3. Using textbooks and the Internet, conduct further research about the ear’s parts and record their functions on the worksheet.

4. Conduct several experiments about the sense of hearing and record your results using the Sense of Hearing Experiments worksheet (optional).

5. Research what caused your results and record this information on the worksheet.
Session 1 - Human Ear

1. **The Human Ear.** Ears are essential for the sense of hearing. Let's take a closer look at the structures inside a human ear.

2. The human ear is divided into three sections: the outer ear, middle ear, and inner ear. On the next few slides, let's analyze the structures within each section.

3. **The Outer Ear.** The outer ear consists of the outer skin and cartilage (called the pinna) as well as the ear canal, which leads to the middle ear. Remove the outer ear and look at it up close.

4. **The Middle Ear.** The middle ear consists of the eardrum, malleus (hammer), incus (anvil), and stapes (stirrup). Lift up each structure and take a closer look.

5. **The Inner Ear.** The inner ear consists of the semicircular canals, the cochlea, and the eustachian tube. Remove each structure and look at it more closely.

6. Finally, you will notice three different sensory nerves that send information to the brain. Lift up and analyze each nerve.

7. Now you know all about the structures inside a human ear. Conduct further research to find out the functions of these structures.