

Student Worksheet

Listen Up!

Learning Objectives

- Identify the parts that make up each section of the ear — *outer ear*, *middle ear*, and *inner ear*.
- Explain how the parts in each section work together to perform its role in the hearing process.

How to Do this Exploration

Take notes in the Notes section below as you complete these steps:

- Read the Introduction and click the **Continue** button.
- Note that the picture of the ear on the right is divided into three sections — *outer ear*, *middle ear*, and *inner ear*.
- Roll your mouse over each of the ear parts on the left to reveal its name and function.
- Drag each ear part to its place in the picture on the right.
- As you correctly place the ear parts, write their names in the appropriate columns in the table below.
- When each section of the ear is assembled, read the description of how its parts work together to perform its role. Then close the section description.
- After building all three sections, read the conclusion and click the **Close** button.
- Snap your fingers. Then follow the diagram and imagine what happens as the snapping sound is transmitted through your ear to your brain. (To review parts of the exploration, use the **Replay** and **Reset** buttons as necessary.)
- Complete the questions at the bottom of this worksheet. (Review parts of the exploration as necessary.)

Notes

Outer Ear	Middle Ear	Inner Ear

Check for Understanding

1. Which section of the ear affects your balance?

2. Which section of the ear collects sound waves?

3. What do you call the membrane in the middle ear that vibrates from sound waves?

4. What do you call the tiny bones that pass vibrations to the inner ear?
