

Hearing Aids

- Audiograms
- Hearing aids
- Types of hearing aids
- Hearing aid features
- How hearing aids work
- Troubleshooting
- Practical



Royal Institute for
Deaf and Blind Children

Audiograms

- Pictorial audiograms
- Each student's hearing loss varies
- Left and right ears are different
- Notice the 'speech banana' – loudness of different speech sounds



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Deaf and Blind Children

Hearing aids

- Amplify sound
- Useful in improving hearing and speech comprehension
- Programmed to suit individual's hearing loss
- Use residual hearing
- Do not restore typical hearing levels
- All background noise is amplified



Types of hearing aids

Completely-in-the-Canal
(C-I-T-C)



In-the-Canal
(I-T-C)



In-the-Ear
(ITE)



Behind-the-Ear
(BTE)



Latest technology in hearing aids

- Motion™ M and Motion™ P
- Aquaris™
- Pure™
- Motion™ SX

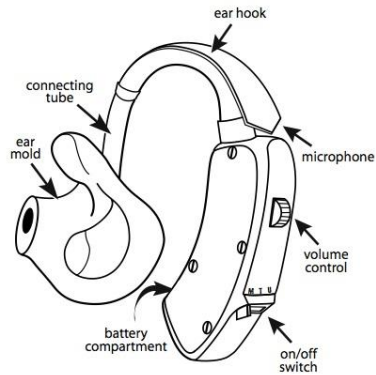


Hearing aid features

- Automatic volume control
- Directional microphones
- Telecoil / T Switch
- FM receiver - audio shoe/neck loop
- Wireless technology
- Ear moulds are custom made
- Choice of colours

How hearing aids work - BTE

Parts of a Behind-the-Ear hearing aid

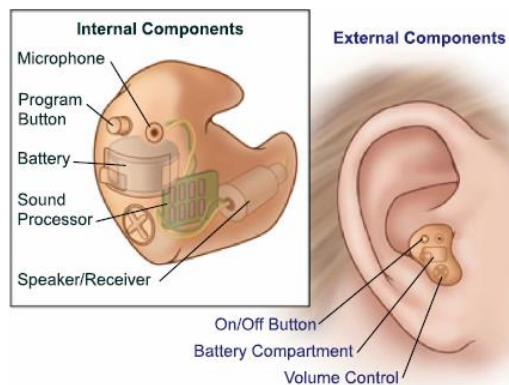


All hearing devices have the same three basic components:

- **microphone** - picks up the sound and allows it to be converted to an electrical signal
- **amplifier** - increases the size of the electrical signal
- **earphone** - converts the increased electrical signal back into sound.

How hearing aids work - ITE

Parts of an In-the-Ear hearing aid



Troubleshooting

If the hearing aid does not work at all

- Make sure the battery door is closed
- Check that the battery is inserted correctly
- Change the battery – request spare batteries
- Check battery contacts to be sure they are not corroded
- Check tubing to be sure it is not clogged with moisture
- Check ear mould to be sure that it is not clogged with wax



Troubleshooting

If the hearing aid whistles (“feedback”)

- Probably an ear mould problem – may be inserted incorrectly or may be loose or poorly fitting
- Reposition the ear mould for a tighter fit
- Tubing may be split
- Blockage of wax in ear canal of mould
- New ear mould may be required due to child’s growth
- Advise your student’s parent/caregiver to consult their audiologist



Practical

- Inserting battery into a hearing aid
- Using a stethoset to listen to what your student may hear through hearing aids
- What do you notice about background noise?



Thank you

- Gianna Petris
- Halina Ciok

