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# Audiometric Screening Training

# Purpose

**Purpose:**

- Obtain a reliable response from a young child
- Successfully perform audiometric screening tests with challenging young children

**Targeted Population:**

- Children 3 to 6 years of age
- Children with developmental delay
- Children who appear to be shy


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# Necessary Equipment

- One ANSI standard calibrated audiometer
- One basket*
- One set of 9 to 12 blocks*
- Table and chairs or the floor
- Quiet room

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# The Procedure

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# Set Up

- Place the equipment in the following order: audiometer, blocks, basket, child
- Set the audiometer is at 90dB and 4000 Hz
- Place Ear selector to RIGHT EAR
- Earphones are on the table
- Blocks and Basket are on the table
- Position the child on your dominant side

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# The Conditioning

Intensity at **90dB**, Frequency at 4000 Hz

***Earphones Off***

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# Audiometer Set at 50 dB & 4000 Hz

**Step A:**

- Introduce the Beep

**Step B:**

- Demonstrate the game
- You go first, the child follows (Role Model)

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# Audiometer Set at 50 dB & 4000 Hz (cont.)

**Step C:**

- **You both play** but let the child WIN

**Step D:**

- The child does it on their own
- You do not play

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# The Conditioning

Intensity at **50dB**, Frequency at 4000 Hz

***Earphones On***

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# Audiometer Set at 50 dB & 4000 Hz

**Step E:**

- Turn down the audiometer to 50dB
- Intensity is still at 4000 Hz
- Put the Earphones on*
- The child still plays on their own

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# Putting the Earphones On

- When you put the earphones on, **face the child**.
- Put your **fingers slightly over the cushions**, thumbs toward you
- Put the **red earphone on the child's right ear (the red earphone is in your left hand)** and blue on the child's left ear
- Then adjust the earphones for head size.

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# The Screening

## *Cooperative Child with Normal Hearing*

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# Right Ear

- Turn down Intensity to 20/25 dB
- Frequency is still at **4000 Hz**
- **If the child responds, continue screening the Right Ear** at Frequencies: **3000, 2000, 1000**

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# Left Ear

- Switch ear selector to **Left ear**
- **Begin** where you left off at **a frequency of 1000 Hz**
- If **the child responds, continue screening the Left Ear** for Frequencies = **2000, 3000, 4000**

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# Taking the Earphones Off

When removing the earphones:

- First, **use your thumbs to separate the earphones**
- Then **take the earphones off** the child

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# What If the Child Does Not Respond

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# No Response at 50 dB

**Immediately Switch Ear**

**If the child responds:**

- Turn down Intensity to 20/25 dB and stay at 4000 Hz
- If **the child continues to respond, screen the Left Ear** according to the procedure
- **If the child does not respond when you switch back** to the Right ear at 4000Hz & 20 or 25 dB, immediately document on the audiogram a minus (–) sign and on the medical record **Failed Hearing 4000Hz (Rt Ear)**

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# No Response at 50 dB

**Immediately Switch Ear**

**If the child <u>does not respond:</u>**

- **Take the earphones off**
- **Turn up the AUDIOMETER to 90 dB**
- **Recondition the child by repeating the conditioning steps A through E**
- **If time allows, complete the screening**
- **If you are unable to finish within the 3-minute timeframe, re-schedule the child for a screening in 6 weeks**

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# No Response at 20/25 dB

**Turn up Intensity to 50 dB**

**If the child responds at 50 dB**

- **Turn down the AUDIOMETER to 20 0r 25 dB**
- If the **child continues to respond, screen the ear you are at according to the procedure**
- Repeat this procedure **every time the child does not respond at 20 or 25 dB**
- ALWAYS reassure and encourage the child!

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# No Response at 20/25 dB

**Turn up Intensity to 50 dB**

**If the child responds at 50 dB but then does not respond at 20 / 25 dB**

- **Immediately document** on the **audiogram a minus (–) sign** at the appropriate **failed frequency for the related ear**
- FYI: **If the child still holds a block** when both ears have been screened at the required intensity and frequencies, **turn up the AUDIOMETER to 50 dB**
- **Let the child put their block in the basket to successfully finish the game**

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# Tips

## *From Steve Rawiszer*

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# Steve Rawiszer's Tips

## Regarding the Interrupter Switch

- Don't move any part of your body
- Don't let the child watch you press the button
- Hold down the button for the count of one Mississippi
- Make sure you change your pattern

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# Steve Rawiszer's Tips

- Be consistent and careful in your instructions
- Be visual, expressive, and descriptive: amplify movement so the child understands
- Do not go to the next step until the current one is understood (conditioning)
- Do not remove blocks one at a time, but empty the basket when you run out of blocks and start over

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# Danger Ahead

## *Teens & Pre-teens*

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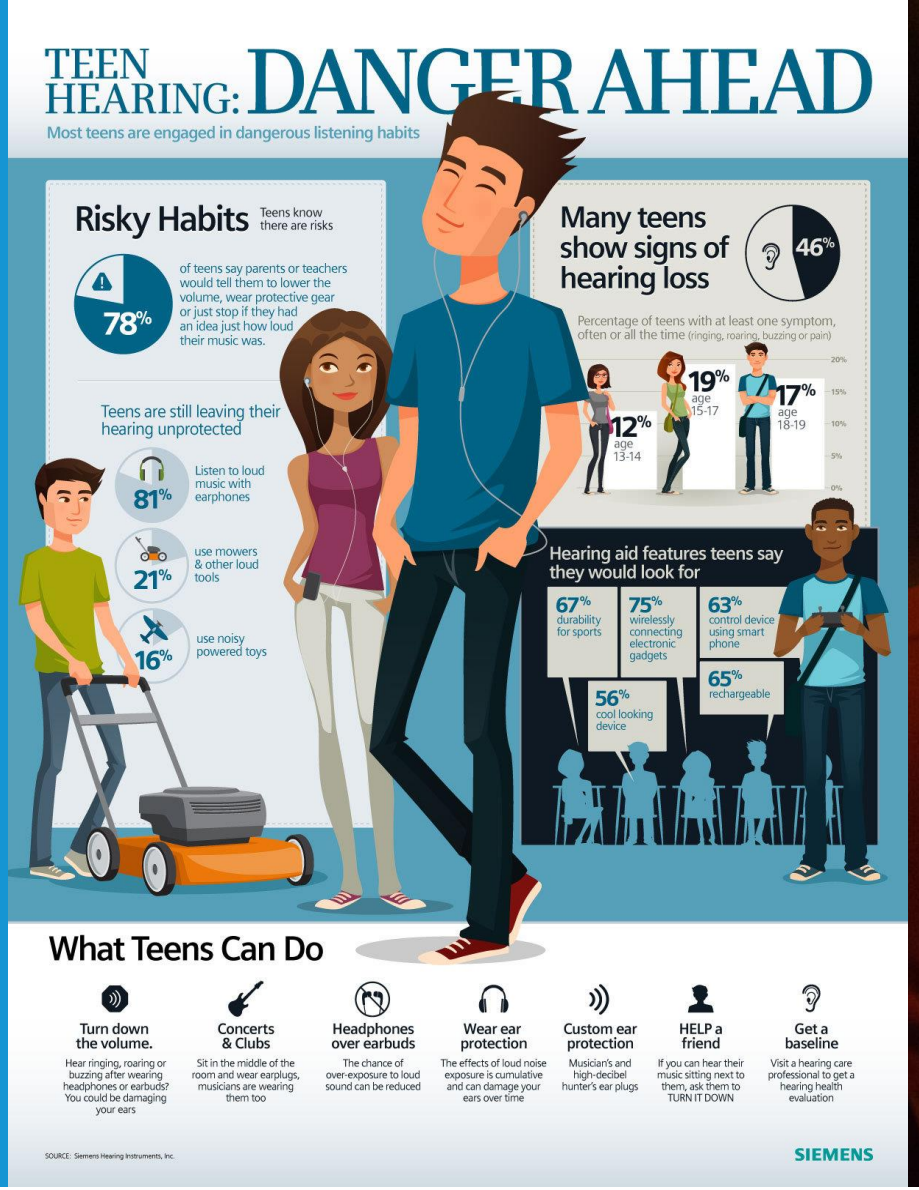


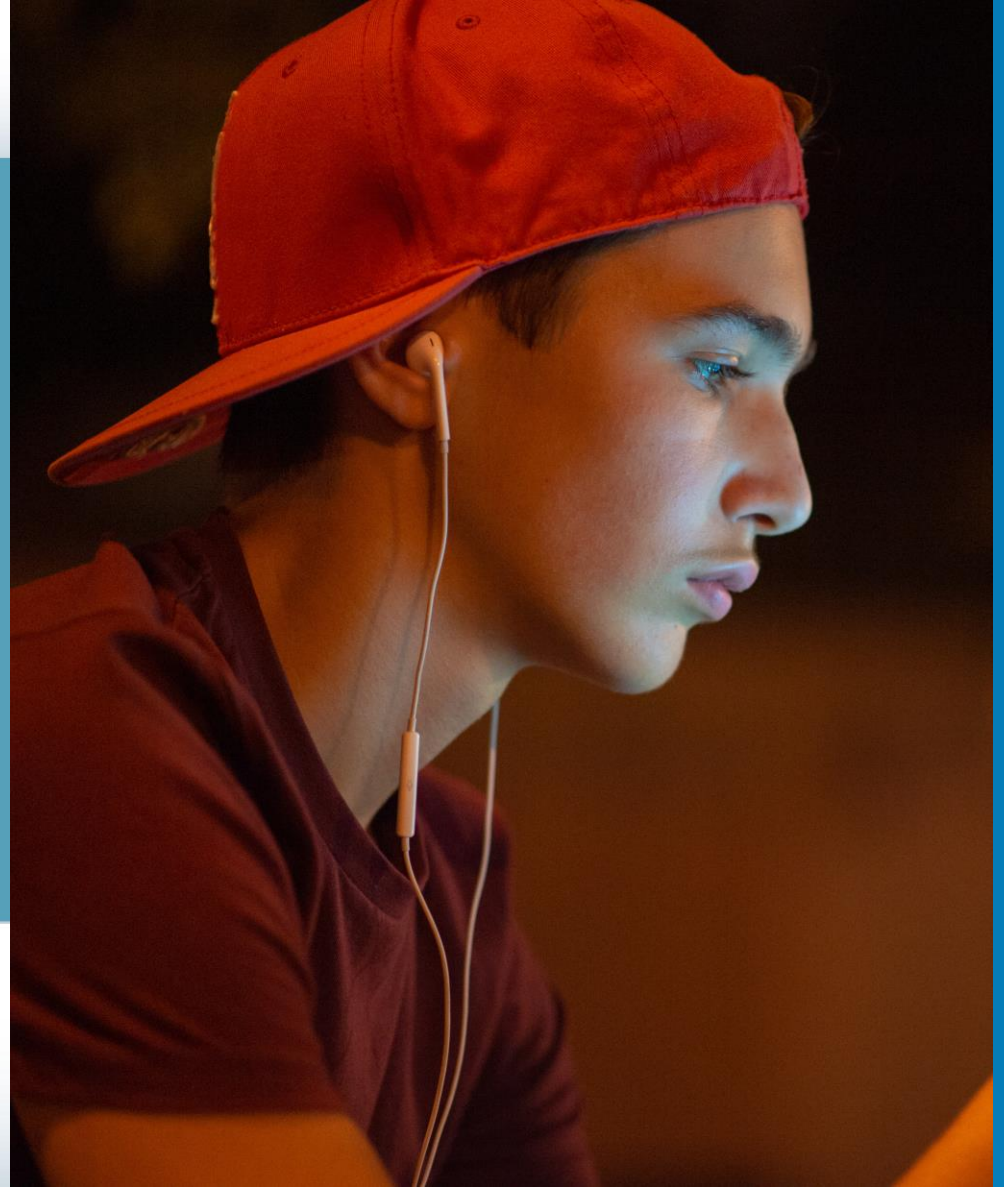

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# The Procedure

## *Children 11 Years & Above*

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# Audiometer Set at 50dB & 1000 Hz Steps

**Step A:**

- Introduce the Beep

**Step B:**

- Demonstrate and explain the procedure

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# Audiometer Set at 50dB & 1000 Hz Steps *(cont.)*

**Step C:**

- **Turn down the audiometer to 50 dB** and the intensity at 1000 Hz
- **Put the Earphones on***
- **Ask the youth to respond**
- **If the youth responds continue screening the Right Ear**

*QUICK TIP: Which ear is red? The red is the right ear. Which ear is blue? The left ear.*

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# Right Ear

- **Turn down the intensity to 20/25 dB**
- Frequency is still at 1000 Hz
- **If the youth responds, continue screening the Right Ear** at Frequencies: **2000, 3000, 4000, 6000 and 8000**

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# Left Ear

- Switch ear selector to **Left Ear**
- Begin where you left off at **a frequency of 8000 Hz**
- **If the youth responds, continue screening the Left Ear** for Frequencies = **6000, 4000, 3000, 2000 and 1000 Hz**

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# Documentation

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# Documentation

**Document screening results on the:**

- Response/no response audiogram
- Child's medical record
- Care coordination form (Failed screening & referral)

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# Important Next Steps:

cencalhealth.org/providers/care-guidelines/medi-cal-for-kids-teens-services/pediatric-oral-health/

1. Please take a moment to work with your Clinical Trainer and walk through a Audiometric Screening practice session.

2. Once complete, please submit the CenCal Health Training Acknowledgement Form to receive your Audiometric Screening Training Certificate of Completion for your records.

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