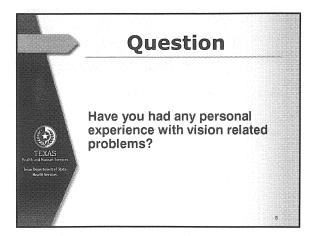
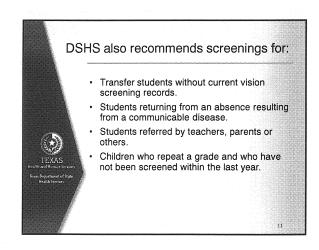
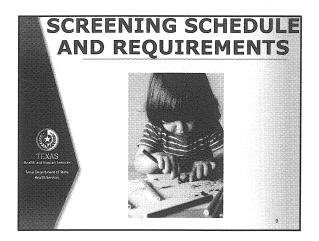
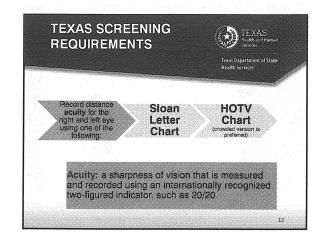


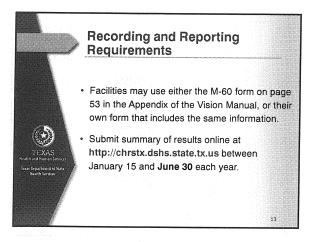
Who Must Be Screened?	When Screening Musi Be Done
4 years old by Sept. 1	Within120 days of admission.
Kindergarteners	
Any other first time entrants (4 years through 12th grade)	
Grades 1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> .	Any time within the school year. (preferably within the first semester

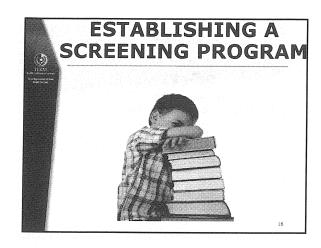


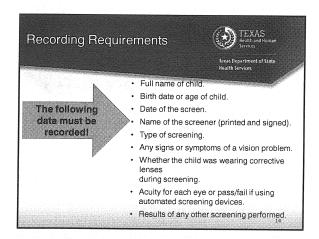


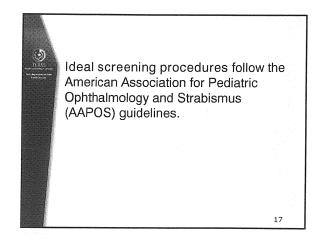


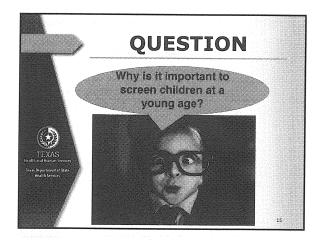


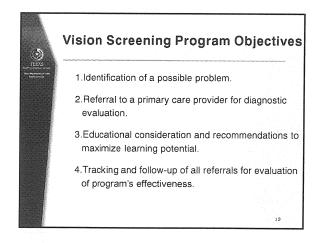


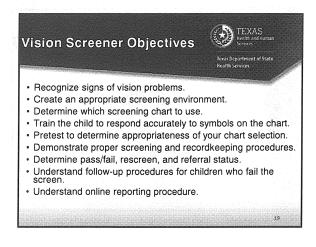


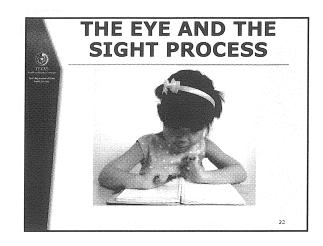


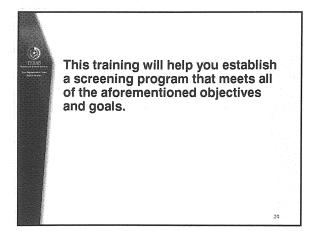


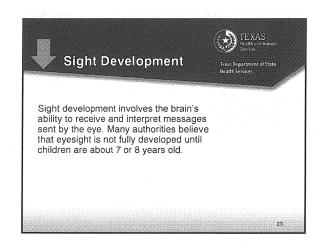


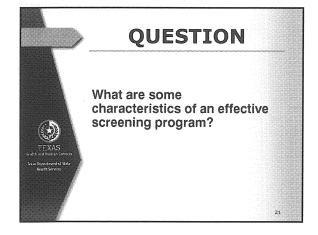


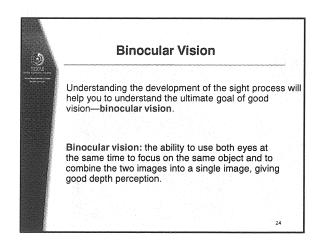


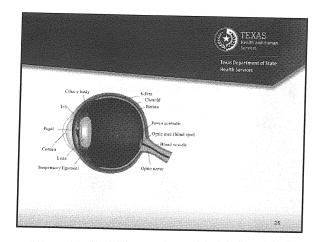


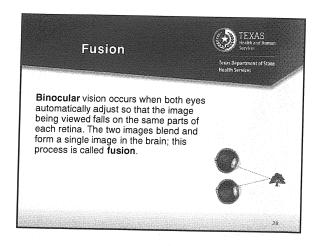


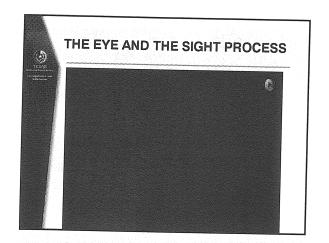


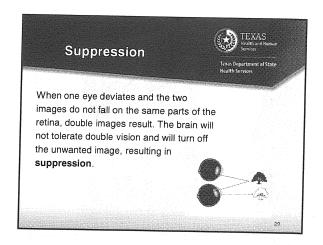


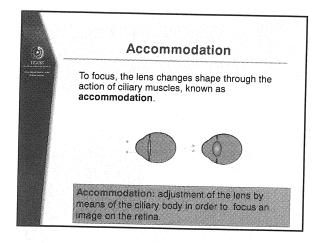


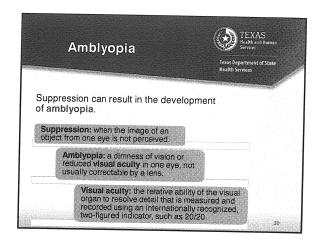


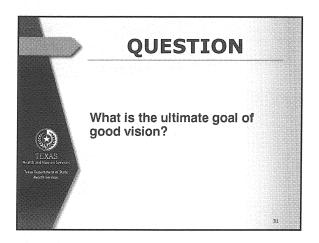


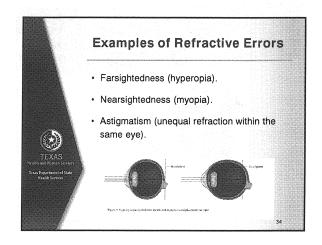




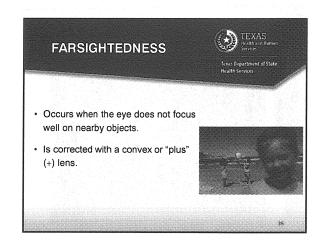


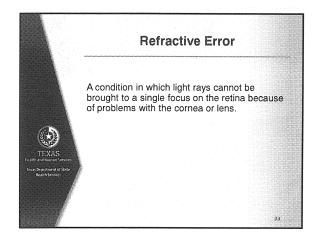


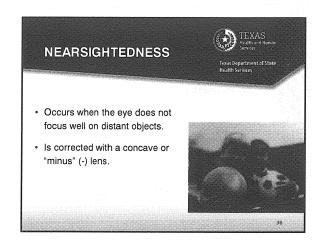


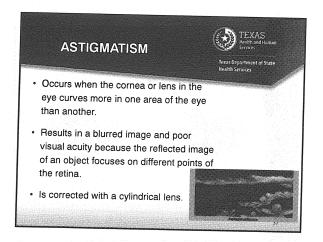


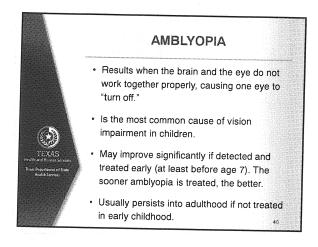


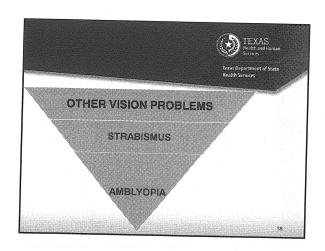


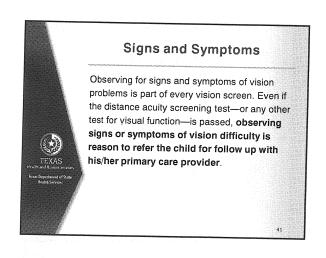


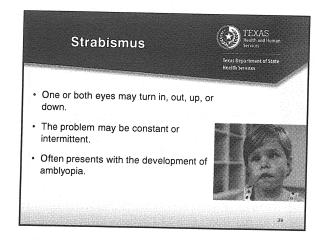


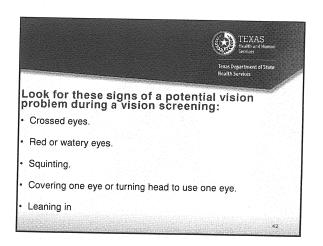


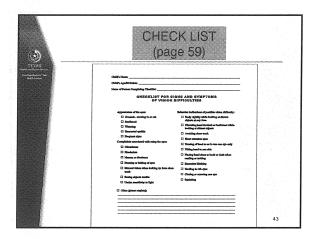


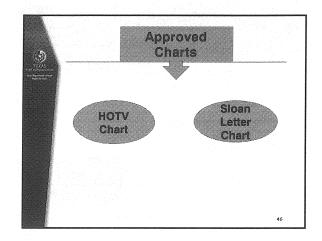


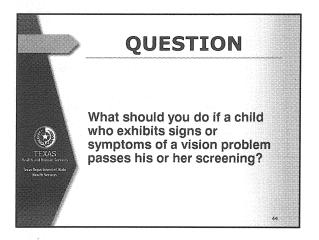


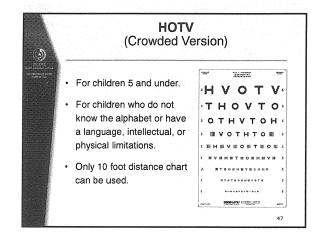




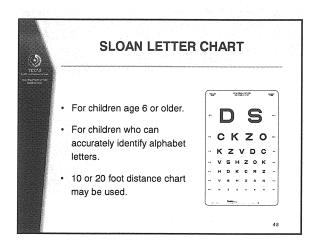


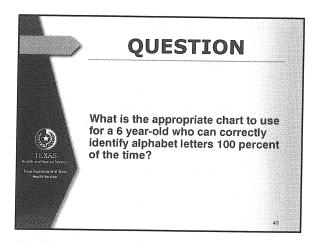


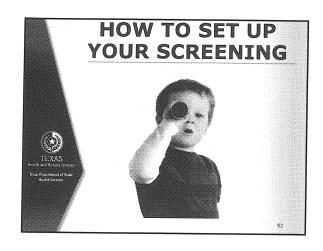


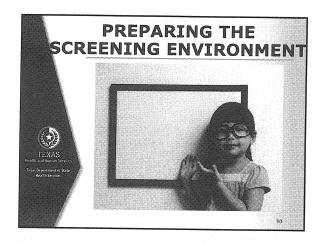


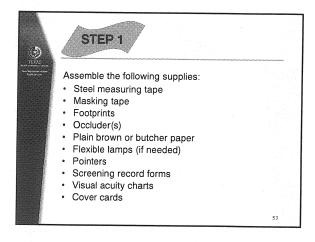


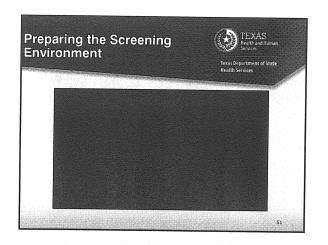


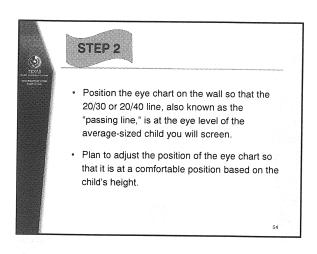


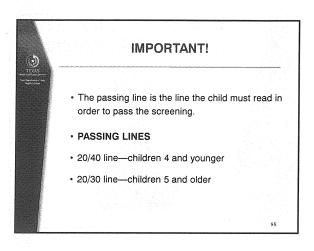


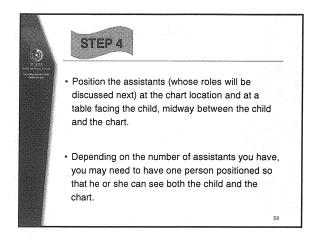




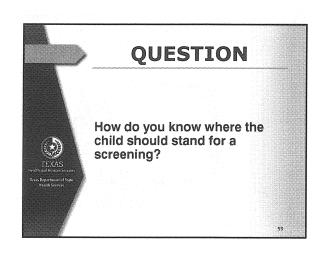


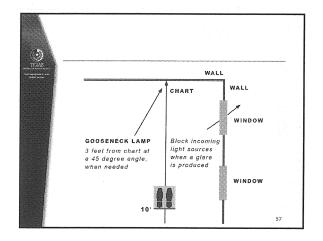


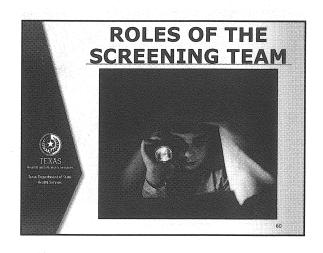


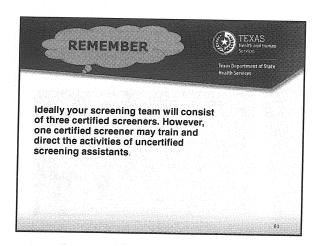


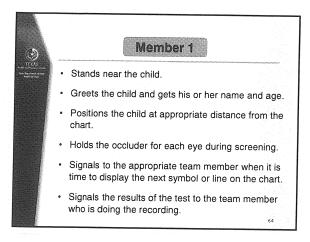
Measure the distance indicated on the top of the chart (10 or 20 feet).
Mark that spot with masking tape or footprints.
Ask the child to place his or her heels on the mark.
If the child is seated, align the back of the child's head with the mark.









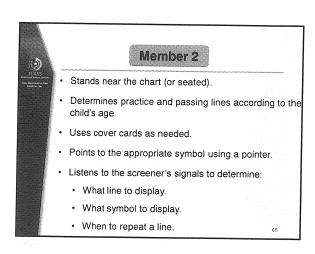


IMPORTANT!

The practice (or beginning) line is one line above the passing line.

For children 4 and younger this is the 20/50 line.

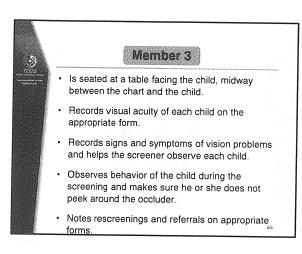
For children 5 and older this is the 20/40 line.

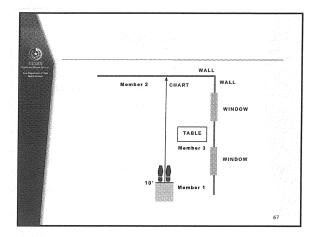


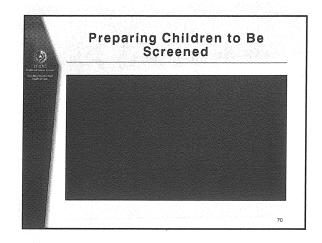
IMPORTANT!

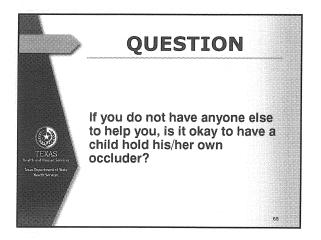
To pass a line, the child must identify one more than half of the symbols on the line.

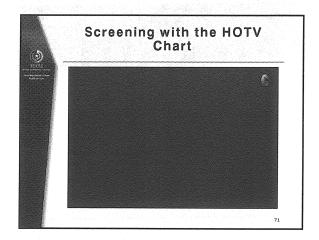
The visual acuity score is always the last line that is read correctly (passed).

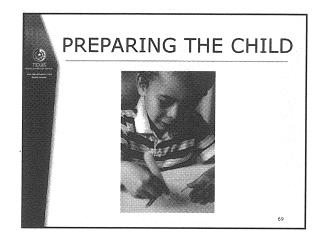


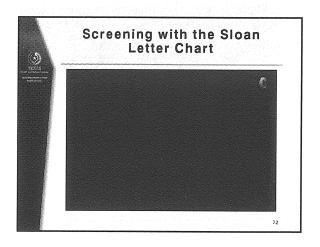


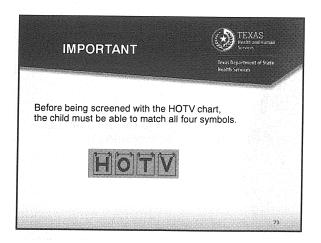


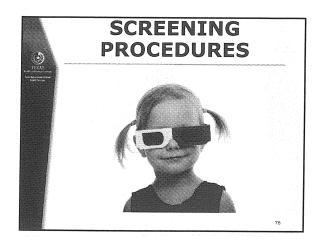


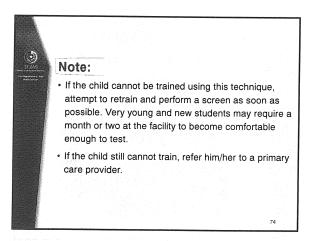


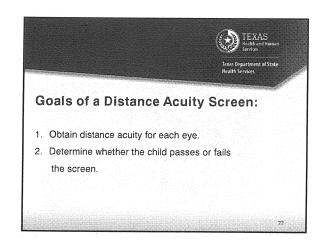


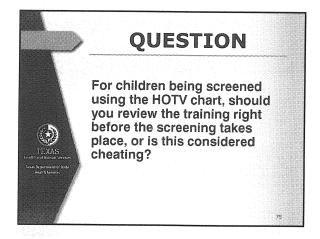


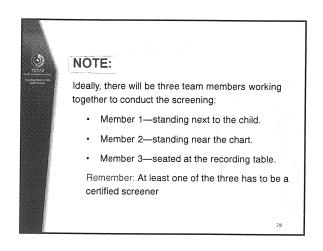


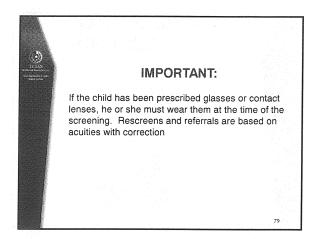


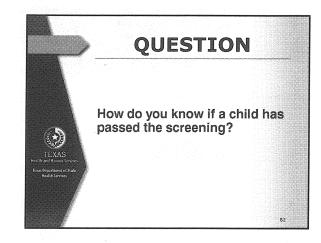


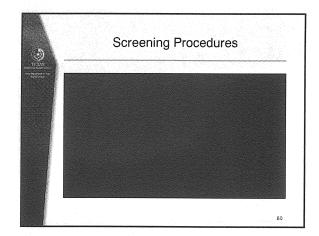


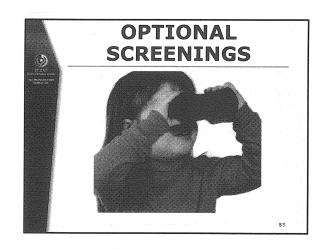


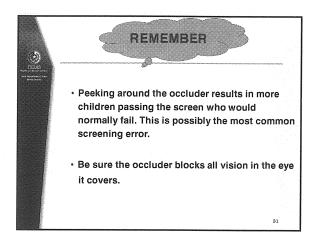


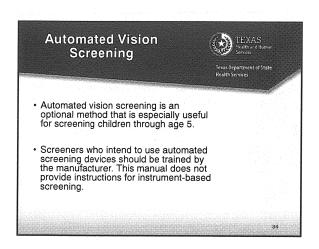












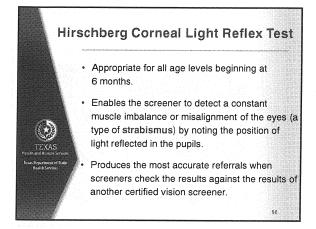
## Important Facts About Automated Screening

- TEXAS
  Health and Human
  Services

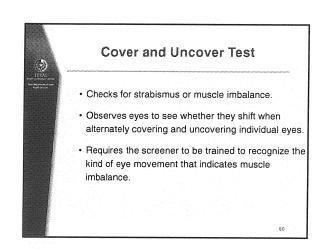
  Toxas Department of State
  Health Services
- An optional alternative to screening with an eye chart.
- · Not dependent on behavioral responses of children.
- Appropriate for children through age 5.

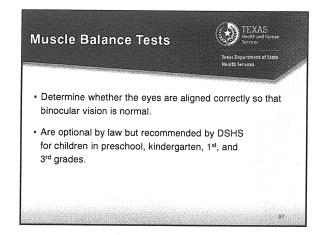
Photoscreening uses a special camera to screen for refractive errors and strabismus.

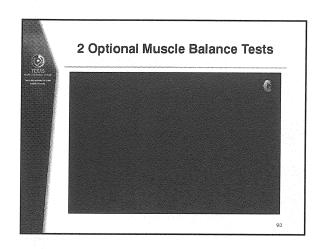
85

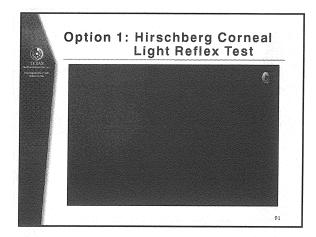


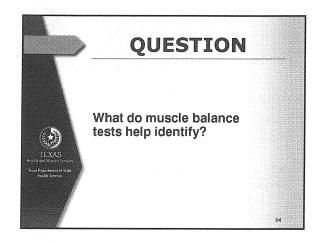
# Photoscreening A type of automated screening device. Uses a special-purpose camera to determine how well a child can see. An alternative to visual acuity-based screening with an eye chart. Cannot determine exactly how well a child's visual acuity is developing. Recommended for children with disabilities who do not respond well to other screening methods.

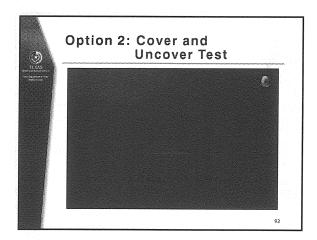


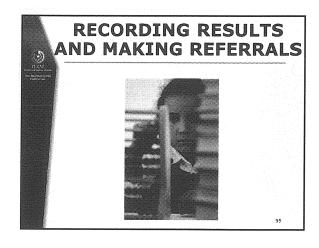








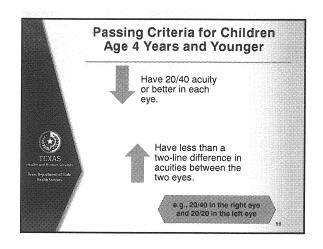


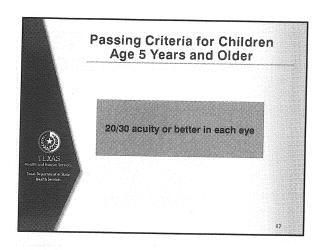


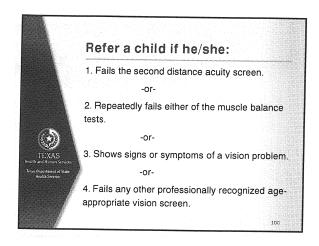
Stereoacuity Screening

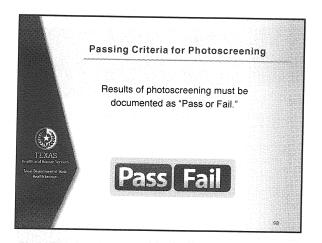
Stereoacuity instruments screen for a variety of different vision problems including:

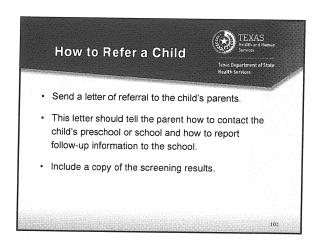
Near point acuity
Far point acuity
Phoria
Fusion
Color perception
Lateral coordination

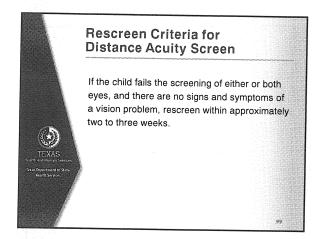


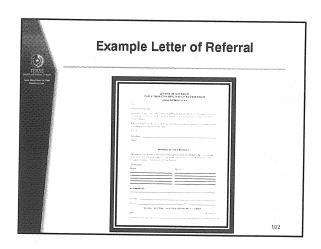


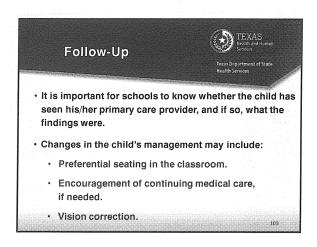


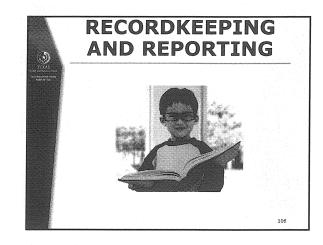


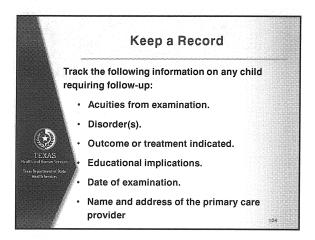


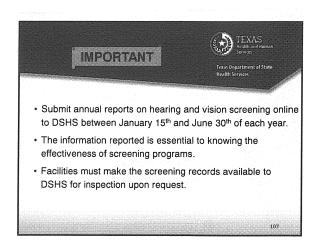


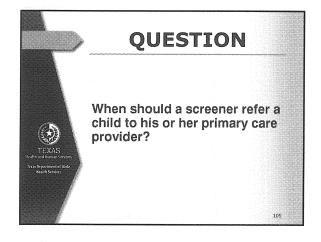


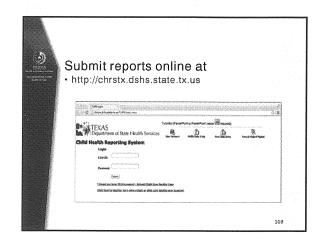


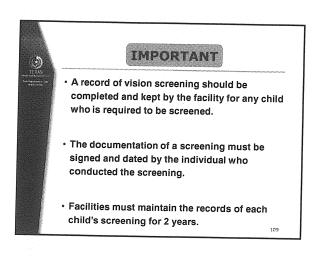


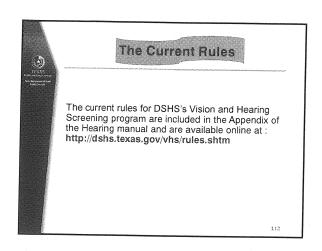


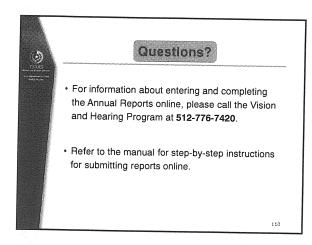


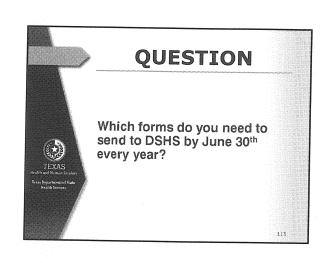


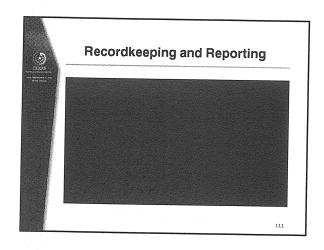




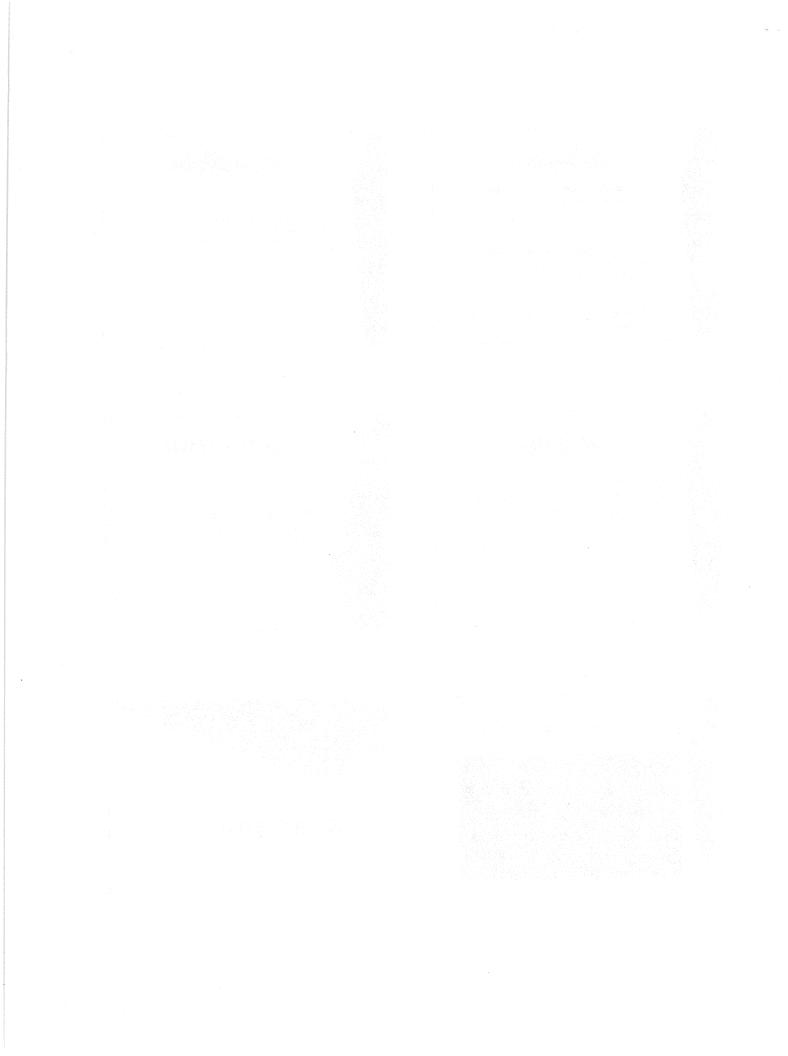




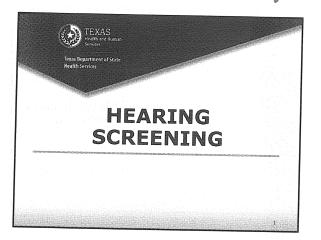


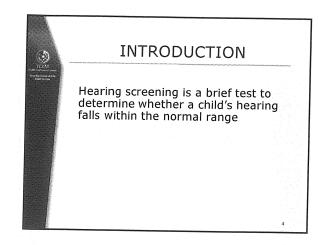




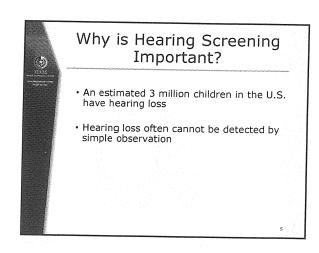


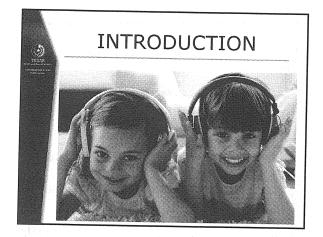
# 10/8/2018 Raquel Hors

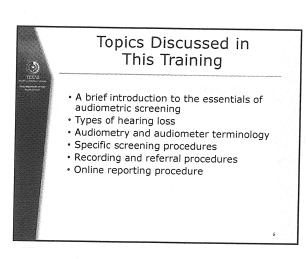


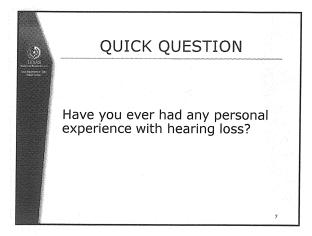


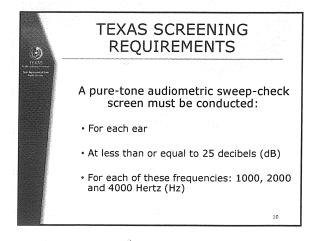


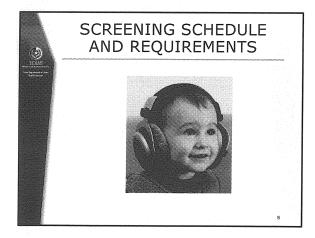


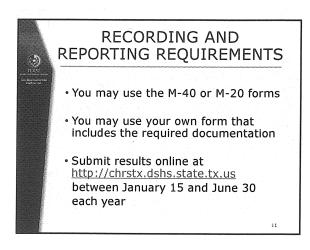






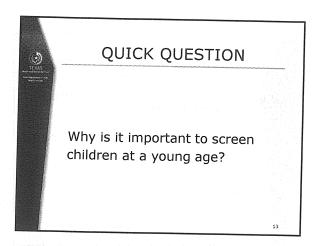


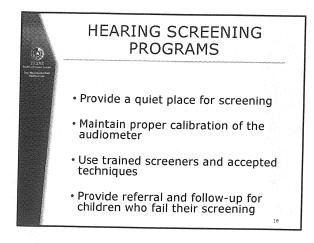


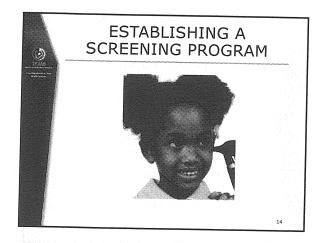


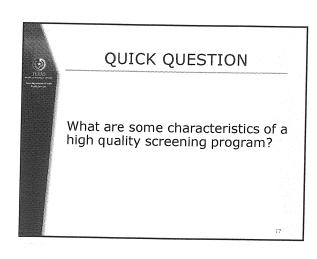
	S SCHEDULE JIREMENTS
Who Must Be Screened	When Screening Must Be Done
4 years old by Sept. 1	Within 120 days of admission
Kindergarteners  Any other first time entrants (4 years through 12 <sup>th</sup> grade)	
1st, 3rd, 5th, and 7th grades	Any time within the school year (preferably within first semester)

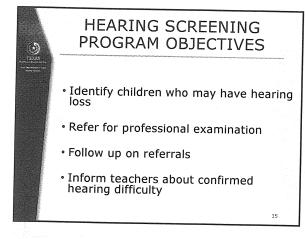
# DOCUMENTATION Child's full name Child's date of birth Type of screening Date of the screen Name of screener, printed and signed Screening results Any signs or symptoms of a hearing problem



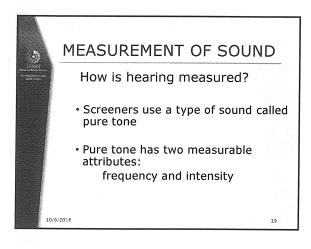


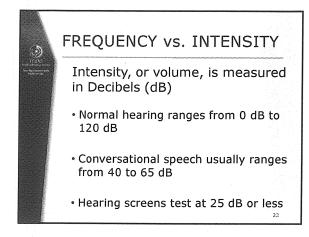


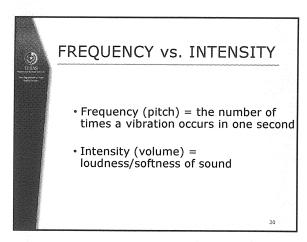


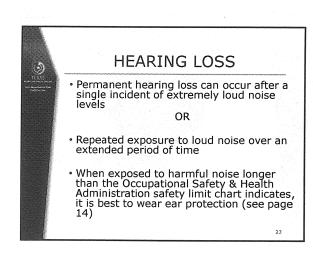


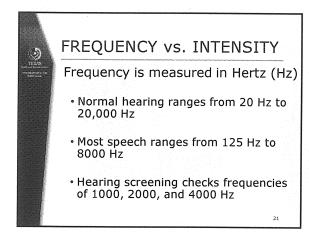


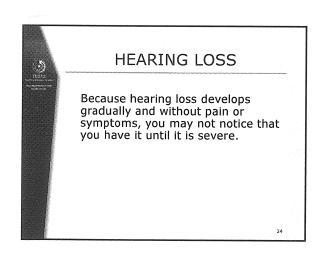


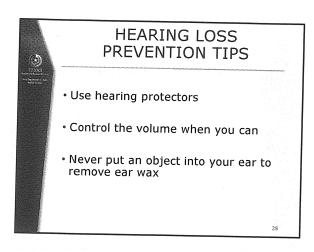


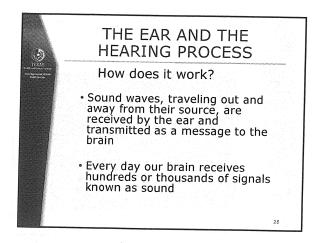


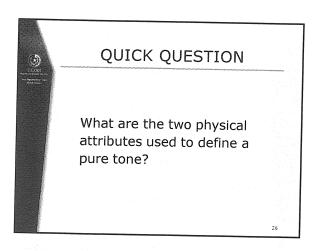


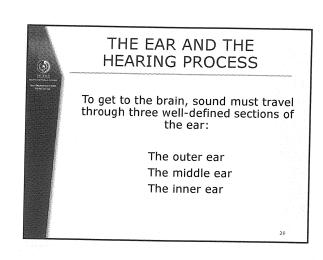


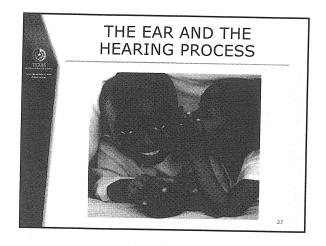


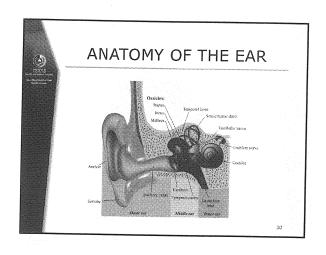


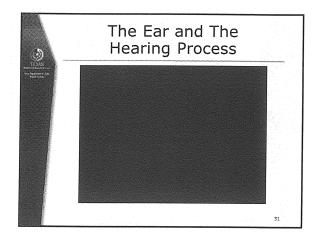


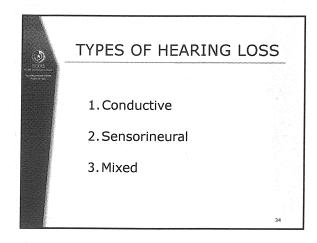






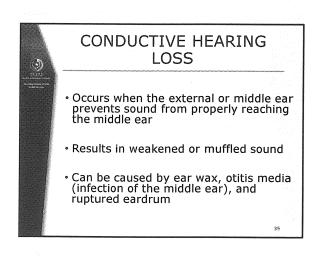


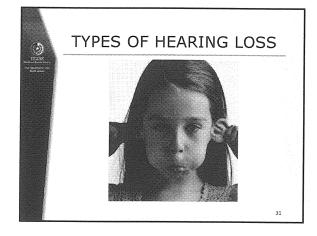


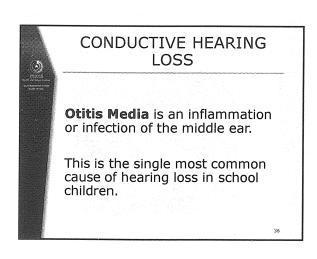


OUICK QUESTION

In order for our brain to perceive sound, through what three sections of the ear do sound waves have to travel?









### SENSORINEURAL HEARING LOSS

- Results from impaired function of inner ear and/or nerve pathways of the auditory system
- Makes speech perception more difficult
- Can be caused by factors existing at birth, severe viral infections, and acoustic trauma

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## CAUSES OF HEARING LOSS

Acquired hearing loss causes include:

- · Frequent ear infections
- · Viral/bacterial infections like meningitis
- · Exposure to loud noise
- · Head injury
- · Ototoxic drugs

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### MIXED HEARING LOSS

- Results from a combination of conductive and sensorineural causes
- Causes impaired functionality of both the outer/middle and inner ear

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### CAUSES OF HEARING LOSS

Congenital hearing loss causes include:

- Viral, bacterial, or parasitic infections during pregnancy or at birth
- · Lack of oxygen before or at birth
- Prematurity and/or low birth weight
- · Inherited hearing loss

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### **HEARING LOSS**

Hearing loss can be **congenital** or **acquired** 

- · Congenital: present at birth
- Acquired: developing during a person's lifetime

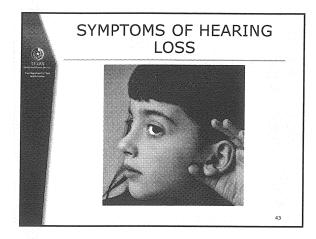
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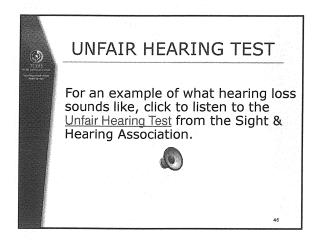


### QUICK QUESTION

What is the single most common cause of hearing loss in school children?

4.



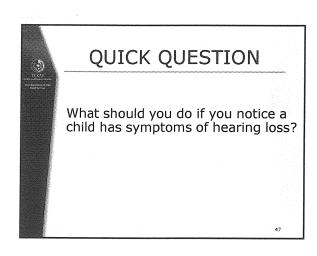


SYMPTOMS OF HEARING LOSS

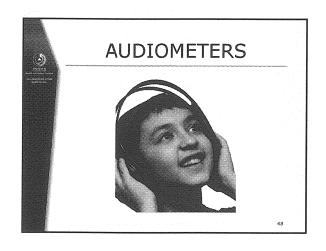
Hearing Development

• The first 5 years of life are formative in all areas of development

• Children must have normal hearing in order to develop strong speech and language skills



SYMPTOMS OF HEARING LOSS • Pain in ear(s) Dizziness with no apparent cause Discharge from ear(s) · Favoring one ear • Lack of response to Ringing or buzzing in ears nearby sounds • Problems • Inability to hear understanding certain tones speech over background noise Straining to hear conversation





### **AUDIOMETERS**

- A pure-tone audiometer generates pure tones as signals to test hearing
- For screening, use an audiometer with the required frequencies and a method for precisely controlling the intensity of the tones

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### **EARPHONES**

- Earphones are the most delicate part of the audiometer
- Earphones transmit test tones to each ear individually according to the standardized color codes: Red for the right ear and Blue for the left ear
- Earphones are calibrated to a specific audiometer and considered an integral part of that particular instrument

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### **AUDIOMETERS**

- Hearing Level (HL) for pure tone: the minimum hearing level at which an individual is able to respond 100 percent of the time to a series of tone presentations
- Attenuator: a control capable of decreasing the amplitude of an audiometer's output signal without distorting its frequency

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### CALIBRATION REQUIREMENTS

- Audiometers require maintenance to ensure accuracy
- Two types of calibration are required:
  - 1. Monthly biological calibration
  - 2. Annual electronic calibration

\_\_\_\_



# CARE AND MAINTENANCE

Because of their expense and to maintain reliability of test results, screeners must handle audiometers and earphones with care

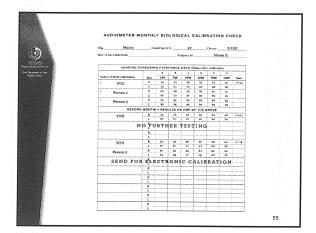
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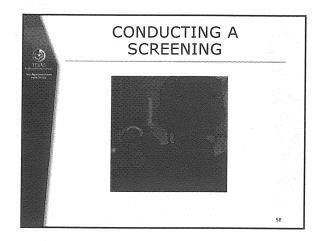


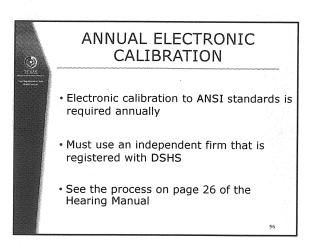
# MONTHLY BIOLOGICAL CALIBRATION

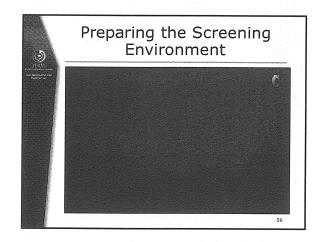
- · Required each month the audiometer is used
- Record results on the Monthly Biological Calibration Check form found in the Appendix of the Hearing Manual
- · Keep results with the audiometer
- Monthly Biological Calibration Check procedure is on page 25 of the Hearing Manual

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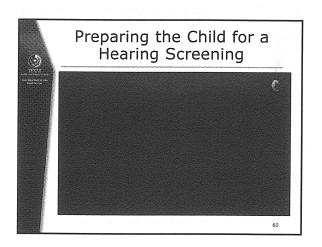


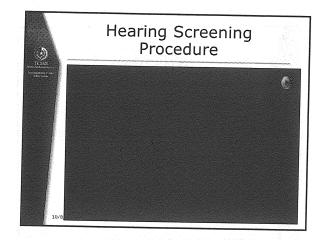


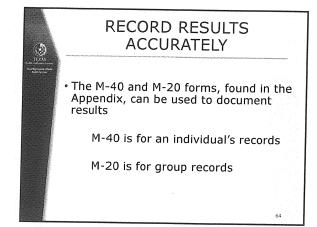


QUICK QUESTION

What are some important things to remember about audiometer earphones?



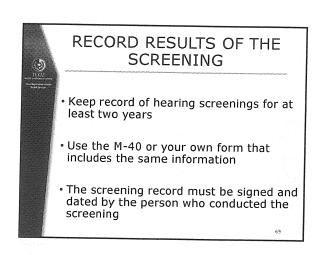


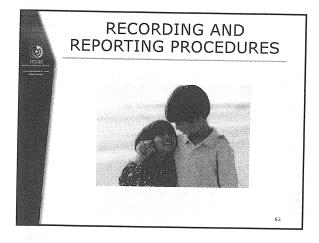


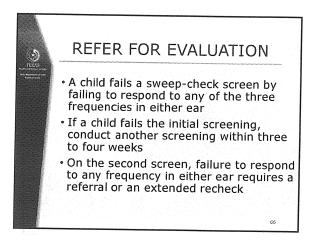
QUICK QUESTION

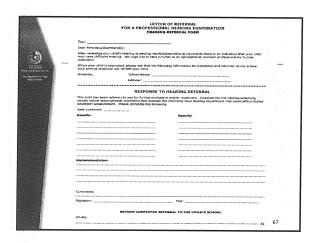
How do you know if a child has failed a sweep-check screen?

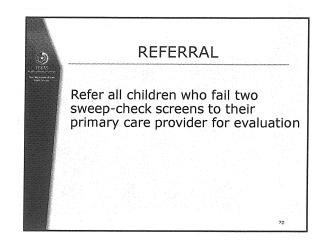
What should you do if a child fails the screen?











IMPORTANT

If physical signs of hearing problems are observed at the time a child fails the first sweep-check screen, refer for further evaluation at that time rather than wait for a rescreening.

