Planting the Seeds of Literacy

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Some Fundamental Principles

- Over 90% of deaf children are born to hearing parents
- Hearing Children model the home language
- Parents are the most influential language models
- A good foundation of language is needed to learn to read
- Once you know, understand and can speak a language, learning to read and write in that same language, is another form of using that language.
- Language development depends on frequent, consistent, and accessible communication
- Hence, the foundation for literacy is in the language a child learns and uses.
- **Conclusion:** Planting the Seeds of Literacy Begins with Developing Language

Of 18-year old deaf students leaving high school...

- Less than half have reached a fifth grade level in reading and writing skills
 - (Traxler, 2000)
- Over 30 percent leave school functionally illiterate
 - (Waters & Language Development in Children Who Are Deaf: A Research Synthesis Page 33 Project FORUM at NASDSE June 4, 2001 Doehring, 1990).

What's The Problem?

Accessible Communication
Accessible Language

Children who are D/HH need Accessible communication

How Does Language Develop in Hearing Children?



Elements of a Language

- Morpheme a meaningful morphological unit of a language that cannot be further divided
- Phonemes the smallest unit of speech that can be used to make one word different from another word.
- Semantics word meanings
- Syntax subject verb agreement
- Pragmatics context, use of language in discourse

Language Developmental Milestones

- Infants hear and interact with caregiver, taking in information for several months before expressive communication.
- Infancy/Pre Linguistics gestures, eye contact, cooing, babbling, crying (ex mamamama, waaah)
- One Word utterance about 10 months (ex child points to bottle and says botty)
- Two-word Sentence about 18 months include a noun and a verb – (ex doggy big)

Language Developmental Milestones

- Multi-word sentences abut 2-2 ½ years include a subject and predicate (ex Where is Ball?)
- $\,$ More complex grammatical structures age 2 $\,\%$ 3 elements and prepositions are added (ex Read it, by book, Take me to the Shop)
- Adult-like language age 5-6 complex structural distinctions are made, concepts like ask and tell and promise. (ex: Ask her what time it is.)

Children must have experience using the language in discourse in order to be successful readers.

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Planting the Seeds for Literacy

- Occurs when children who are Deaf/HH have reached the language developmental milestones and have easy access to the spoken language.
- Occurs when they know and can use the language they will learn to read in

Is Reading Different for Deaf Individuals?

Mayer and Trezek conclude NO.

"phonology is an aspect of language acquisition....that provides the platform....for learning to read. It is these phonological skills that allow the reader to make the connections between "through-the-air" language and the print on the page...."

Mayer, C., & Trezek, B. J. (2014). Is reading different for deaf individuals? Reexamining the role of phonology. *American Annals of the Deaf*, 159(4), 359–371.

Is Reading Different for Deaf Individuals?

"For the purpose of learning to read, children must have an age-appropriate level of proficiency in the same language that is to be read and written."

Mayer, C., & Trezek, B. J. (2014). Is reading different for deaf individuals? Reexamining the role of phonology. *American Annals of the Deaf*, 159(4), 359–371.

The Role of Phonology

"Early exposure to a communication system that makes the phonological aspects of the language accessible (i.e., Cued Speech) results in age-appropriate skill development in the areas of phonological awareness, reading, and spelling, although not necessarily vocabulary."

Mayer, C., & Trezek, B. J. (2014). Is reading different for deaf individuals? Reexamining the role of phonology. *American Annals of the Deaf*, *159*(4), 359–371.

The Role of Phonology

"a core difficulty in learning to read manifests itself as a deficiency....in mastering phonological awareness skills"

Mayer, C., & Trezek, B. J. (2014). Is reading different for deaf individuals? Reexamining the role of phonology. *American Annals of the Deaf*, 159(4), 359–371.

From Marschark's Footnotes

- Research shows deaf children who are exposed to Cued Speech from an early age show impressive performance in a variety of reading sub-skills.
- Cueing at home and at school maximizes the potential of the deaf or hard of hearing child.

Why was Cued Speech Developed?

- Dr. R. Orin Cornett was surprised by poor reading levels of deaf students at Gallaudet in1965.
 - If deaf students can't read, how are they getting information?



By spring of 1966 Cornett had developed Cued Speech.

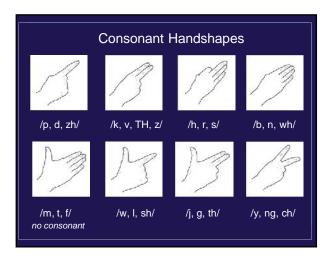
- a phonemically-based mode of communication used to make a traditionally spoken language visually accessible
- closed system of handshapes, placements, and mouth movements

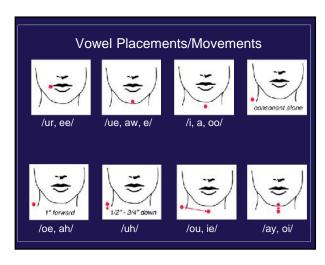
Cued Speech - Principle

"If all the phonemes of speech looked clearly different from each other on the speaker's mouth, just as they sound different from each other to normal ears, a profoundly deaf child could learn language through vision almost as easily as the normal child learns it from hearing."

Cued Speech

- 44 Phonemes in English
- Disambiguates Lip reading
- Validates Auditory Skills
- Reinforces Speech Skills
- Makes language clear through vision alone
- Available in 70 languages and major dialects





English Vocabulary

- Specificity
- Pronouns
- Synonyme
- Multiple meaning words
- Contractions
- Modals
- Idioms
- Accents
- Pronunciation

Hearing parents use Cued Speech to...

- provide visual access to the language of the home.
- learn to communicate visually in a relatively short period of time.
 - Classes can teach the entire system in 12 –
 15 hours
 - Fluency develops within a few months to a year

Children of Deaf parents can use Cued Speech to ...

- learn English as a second visual language.
- manipulate the phonemic stream of English to develop phonemic awareness of the language they will learn to read and write.

Parents of children with other language learning disabilities can cue to...

- provide visual and kinesthetic model of language.
- prompt/elicit an utterance.
- draw attention to the face and mouth for communication.
- demonstrate difference between incorrect & correct pronunciation/ articulation.

Cued Speech and Cued Language for Deaf and Hard of Hearing Children

Edited by: Carol LaSasso, Kelly Lamar Crain, & Jacqueline Leybaert Plural Publishing (2010)



Deaf cuers...

- learn English naturally
- have a large vocabulary base
- learn to read in the same manner as hearing
- learn foreign languages as easily as hearing children
- do not rely solely on interpretation
- have an accurate phonological model of a spoken language
- have English skills which match their hearing peers

Cuers meet or surpass hearing peers in linguistic competence.

Cuers can access General Education programs with fewer
supports than other deaf or hard of hearing students.

Reading Achievement of Deaf Students

- Children who are profoundly deaf and use Cued Speech score at the same level for reading achievement as normally hearing children.
- Carefully matched oral and total communication students scored significantly lower.

Wandel, Jean E. (1989) Use of internal speech in reading by hearingimpaired students in oral, total communication, and Cued Speech programs. New York: Teachers College, Columbia University, Doctoral Dissertation.

Phonological Awareness

- In hearing children, research shows:
 - Phonological abilities are correlated with subsequent reading achievement
 - Link is causal between some phonological tasks and reading achievement
- Cued Speech children have comparable phonological awareness skills.

Visual Speech in the Head

- Leybaert & Charlier (1996)
- Deaf children with early exposure to CS had skills like those of hearing peers
 - Rhyming, Memory, Reading, Spelling
- Deaf cueing pre-readers had better rhyming skills than hearing pre-readers

Journal of Deaf Studies & Deaf Education, 1(4), 234-48. The Effect of Cued Speech on Rhyming. Remembering, and Spelling.

Cued Speech and Cochlear Implants: Powerful Partners - Osberger (1997)

- Exposure to Cued Speech provided benefits pre- and post-implant as compared to other groups of children.
- Tested on awareness of sound and language development.

Osberger, M.(1997) The Hearing Review. , 4(10), 28-31. Current issues in cochlear implants in children

Cued Speech and Cochlear Implants: Powerful Partners Vieu, et al. (1998)

- All children improved in speech production and spoken syntax after implantation (oral, signing, cueing)
- Cued Speech group demonstrated more advanced syntax and language complexity than others.

Vieu, A. Et al. (1998) International Journal of Otorhinolaryngology, 44, 15-22. Influence of communication mode on speech intelligibility and syntactic structure of sentences in profoundly hearing impaired French children implanted between 5 and 9 years of age.

Deaf cuers are like deaf signers because...

- They use a visual form of communication.
- Speech is not necessary for communication.
- The majority can sign fluently.
- They utilize many assistive devices.

Cuers can be a part of the Deaf Community.

The First Step to Literacy is Knowing the Language

- To learn and internalize a language, children must experience, i.e. be "bathed" in the language.
- They must practice and use the language in conversation, i.e. "face-to-face."
- They must have: repetition, consistency, frequency and intensity
- Children do not learn a language effectively through print only.

National Cued Speech NESA Association



- www.cuedspeech.org
- info@cuedspeech.org
- 800-459-3529
- Free first-year membership to parents
- Packets of information sent to parents upon request
- Newsletter, On Cue
- Network of parent/professional support

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