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Developing Phonological Awareness in Preschool Children: The Why and The How

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Disclosure: Receive financial benefit for PASS

What Is Phonological Awareness? (PA)

- A term used to describe a group of oral language <u>skills</u> that reflect explicit knowledge and ability to manipulate the sound structure of language.
- Includes rhyming, alliteration, counting, isolating, segmenting, deleting, substituting, reversing
- It is a higher-order language skill, one of the "meta" linguistic skills

Metalinguistics

- Ability to think about language independent of the meaning it conveys.
- Phonological awareness (PA) is a <u>metaphonological</u> skill.
- Requires ability to reflect on the sound properties of language.



Phonemic Awareness (pa)

- Knowledge that words are made up of individual sounds.
- Ability to manipulate these individual sounds at the level of the phoneme.
- Most difficult level of PA, AND the PA skill most directly related to early reading and spelling abilities of children.
- Of all the PA and pa skills, sound deletion is the most robust predictor of early reading success.

Oral Language (Receptive and Expressive)

Emergent Literacy (including PA)

Early Literacy = Decoding and spelling

Later Literacy = Reading fluency and comprehension

Why Is PA Important to Literacy Achievement?

- Children who perform well on PA/pa tasks usually are (or become) good readers.
- Children who perform poorly on them struggle (or will struggle) with word recognition and spelling.
- Phonological awareness acumen in K is best predictor of reading & spelling achievement in Grades 1 & 2.
- Children who are phonemically aware can grasp the alphabetic principle:
 - ► Concept that letters (more or less) correspond to sounds in spoken words.



But There's More...

- ► Children cannot learn to decode until they learn the alphabetic principle (AP)...even children with good pa skills---
- ► So pa is <u>necessary</u> but <u>not sufficient</u> for good beginning reading & spelling development

- ► Children's early decoding and spelling experiences further develop their phonemic awareness skill, and round and round it goes...RECIPROCAL Relationship
- ► About 20% of children do not acquire PA without explicit instruction, especially those
 - ☐with disabilities
 - \Box from low-income households
 - ☐from homes in which English is not

How Does Phonological Awarene

- Reciting finger plays (e.g., Itsy-Bitsy Spider rhymes (e.g., Hey Diddle-Diddle)
- Singing songs, chants with rhyming or allit
- Joint book reading with older children and
- Exposure to environmental print (e.g., stro logos)
- Interaction with various forms of print (e. shopping lists, viewing guides)

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Order of Development of Phonological Awareness Abilities

- Rhyming & Alliteration: (emergent & early PA)
- Blending: combining language parts
- Segmenting: dividing language parts

Isolation & Identification: "What's the first sound in the word 'fish'?"

<u>Deletion</u>: "Say cupcake. Now, say it without 'cup'"; "Say 'fat' without the 'f.'")

• Manipulation: "Say 'able.' Now add a /t/ at the beginning"; "Say 'top.' Change the /t/ to a /m/."

This Sequence of Development...

- ► Shows children's growing ability to deal with language at a more <u>abstract level</u> & <u>deeper level</u> that is more focused on language structure than on communication.
- ► Typically developing (TD) children between 4 and 6 years can count, isolate, blend, and segment speech sounds; older children can $\underline{\text{delete}}$ and $\underline{\text{manipulate}}$ them.

PA Can Be Taught

- Explicit instruction in PA often is beneficial for improving:
 - Metaphonological competence
 - Grapho-phonemic knowledge (alphabetic principle)
 - Decoding ability
 - Spelling proficiency

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Guidelines for Instruction

Control task dimensions that affect performance

Phoneme Characteristics/Sound Choice

- Continuants (/s/, /m/) are longer in duration and more discrete than non-continuants (/p/, /k/).
- Can be produced in isolation and emphasized by overarticulation.
- Then move to non-continuant sounds, using initial iteration: *k-k-k-kite*.

Control for Task Difficulty

Explicitness of Awareness Required

- Matching
- Judgment: (same/different)
- Isolation
- Elimination: (oddity/deletion)
- Simple Production (1-step tasks; e.g., complete segmentation or blending of units)
- Compound Production (2-step tasks involving deletion, substitution, or reversal)

Size of Phonological Unit

Move From Larger Units to Smaller Units

Sentences

Compound Words

 \downarrow

Multi-syllabic words

 \downarrow

Single-syllable words



Depth of Phonological Detail

WORD LEVEL

Compound Word Level (e.g., cupcake; hotdog)

- 1. Concrete; each syllable is a word.
- 2. Each syllable can be produced with about equal stress.
- 3. Compound words are easier than two-syllable words: *jacket, cookie.*

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- 1. Begin with 2-syllable words: (cookie; jacket).
- 2. Move to 3-syllable words: (telephone; banana).
- 3. Introduce 1-syllable words: (c-a-t)

SINGLE-SYLLABLE LEVEL

- 1. CV & VC--continuants (e.g., no; us)
- 2. CV & VC--stops (e.g., two; up)
- 3. CVC--continuants (e.g., moon; fish)
- 4. CVC--stops (e.g., cat, dip)



Position of Unit

General Teaching Progression

Initial sounds→ Final → Medial/Middle

- It is easier for children to <u>segment</u> initial phonemes of a word than final phonemes (e.g., "sh---ark" vs. "bir---d")
- Conversely, in <u>blending</u>, it is easier for children to blend final consonant onto a CV string (e.g., "bee—t") than blending initial consonant onto a VC string (e.g., "s –oup")

Word Frequency/Familiarity

- Use familiar words
- Use high frequency words

Use Instructional Scaffolds to Foster Success

- 1. Make sounds perceptually salient through exaggerated pronunciation
- 2. Use <u>distinct pauses</u> (1 sec) between words or sound parts
- 3. Use manipulatives whenever possible
- 4. Incorporate movement and motor activities
- 5. Use visual cues: blocks, tokens, bingo chips, pictures

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Use Instructional Scaffolds to Foster Success	
6. Use articulatory cues: "See how they look when I make the sounds: /p/ versus /s/"	
7. Model extensively	
Bombard students with examples of target units	
Provide immediate corrective feedback	
10. Use repeated instruction on same target skill: Redundancy builds and solidifies skills	
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Use Instructional Scaffolds to Foster Success	
11. Train to mastery criterion	
 Couple PA training with alphabetic principle instruction (either sequentially or concurrently) 	
► Provide LOTS of opportunities for practice	
Skills that are not practiced tend to fade and disappear!	
Promoting Awareness of Speech Sounds (PASS) (Roth, Worthington & Troia, 2012)	
► Developed specifically for preschool children with and without speech and language disabilities.	
► Rationale: These youngsters may not show developmental readiness for PA/pa instruction BUT they NEED this knowledge	
and skill set if they are going to attain literacy.▶ PASS has 3 main instructional units:	
□Rhyming □ Blending	
■ Segmentation ► PASS aligns with standards-based curricula	



Characteristics of PASS Instruction

- ► All Lessons = 30 Minutes and Have Same Structure
- Opening Activity (5 minutes)
- Explicit instruction (20 minutes)
- Closing Activity (5 minutes)
- ► All lessons are metascripted (loose scripts)
- ► All lessons
- Sequentially ordered discrete learning objectives
- Guided practice opportunities
- Ongoing progress monitoring (probes)
- Criterion-based (suggested 80% accuracy 2 lessons)

PASS Stimulus Characteristics and Scaffolding Procedures

- ► High frequency words (20 per lesson) are used for the explicit instruction portion of each lesson
- ▶ Picture stimuli named by or for child(ren)
- ► Extensive modeling of task demands
- ► Exaggerated articulation of key sound properties and iteration
- ► Visual cues and manipulatives
- ► Immediate feedback and error correction

Research on PASS

6 studies were conducted over an 11 year time period:

- In clinical setting
- In school setting
- With children with SLI
- With at-risk preschool children (e.g., poverty)
- With ELL children (in progress)
- 1-on-1 instruction
- In RTI model (Tier 2 support)

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Research Findings on PASS

- 1. In each setting and for each instructional unit (R, B, S), significant gains were made by the children.
- 2. These gains also were seen on independent measures of emergent literacy (*PASS* probes; *Preschool Literacy Sc*ale).
- 3. The gains were significantly higher than gains made by TD peers with "usual" sound awareness instruction.
- 4. The effect sizes were large, generally in the .90 range.
- 5. Preliminary findings with preschool ELLs show that **PASS** is similarly effective as a Tier 2 intervention.

Considerations and Cautions

- Evidence suggests that even *preschoolers* can be taught to R, B, S at the pa level.
- Blending instruction by itself did not have concurrent impact on reading achievement unless children already knew how to segment.
- Spontaneous transfer between skills cannot be assumed.
- Phonemic awareness training has to be coupled with AP instruction to have the most impact on literacy (either sequentially or concurrently)
- Phoneme preservation scoring appears to be more sensitive to growth (# of phonemes preserved)

THANK YOU!

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Promoting Awareness of Speech Sounds (PASS)

Attainment Company
Vernona, WI
www.attainmentcompany.com
1-800-327-4269



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SpeechPathology.com

2014 Nancy McKinley Lecture Series: Innovations for Ages 3-6

http://www.speechpathology.com/general/2014-nancy-mckinley-lecture-series

Mon 10/6 Read with Me! Engaging Parents as Partners in Early Literacy Development Shari Robertson, Ph.D., CCC-SLP

Snari Robertson, Ph.D., CCC-SLP

Tues 10/7 Private Practice Serving Ages 3-6

Rebecca Jarzynski, M.S., CCC-SLP

Wed 10/7 Developing Phonological Awareness in Preschool

Children: Why and How Froma Roth, Ph.D., CCC-SLP

Thur 10/7 Play-based Activities for Phonological Development

Rae Cuda, M.A., CCC-SLP & Sarah Willard, M.S., CCC-SLP

Fri 10/7 Mobile Device (iPad®) Applications to Support Ages 3-6
Angela Sterling-Orth, M.S., CCC-SLP

