



PROFESSIONAL DEVELOPMENT

Jan Wasowicz, Ph.D., CCC-SLP, BCS-CL

Advisory Board Member, The Reading League Illinois

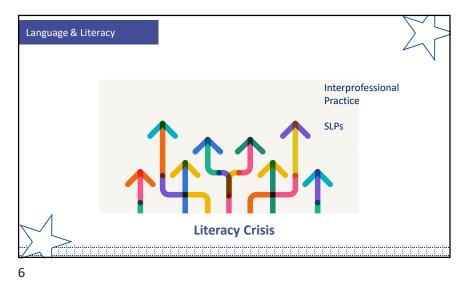
External Consultant, Purdue University, Interdisciplinary Initiative funded by Lilly Foundation Endowment to strengthen teacher preparation using science-based methods

Assistant Professor, Department of Speech Communication, Elmhurst College (1987-1994)

Visiting Professor, Department of Communication Sciences & Disorders, Northwestern University (1991-2003)



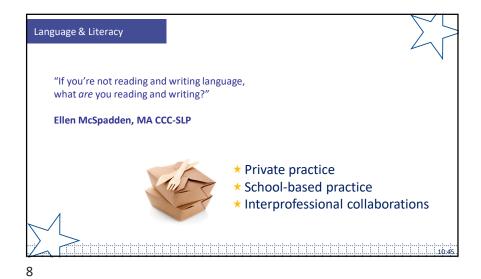


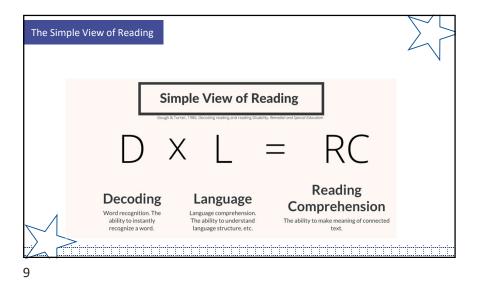


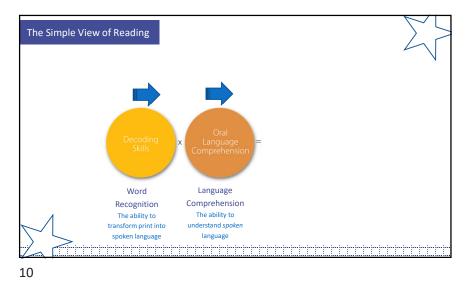
"If you're not reading and writing language, what are you reading and writing?"

Ellen McSpadden, MA CCC-SLP

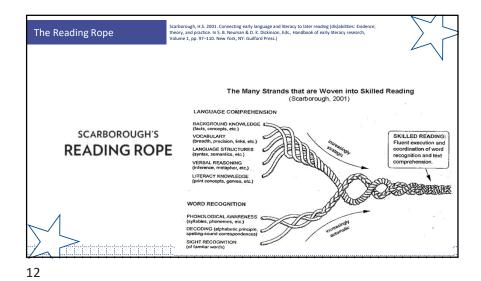
SPELLTalk PROFESSIONAL DISCUSSION GROUP
FREE discussion group for researchers, educators, and other professionals dedicated to improving literacy through discussion of research and evidence-based best practices

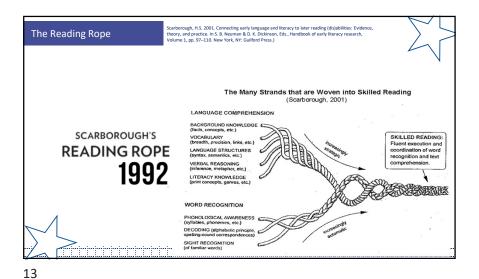


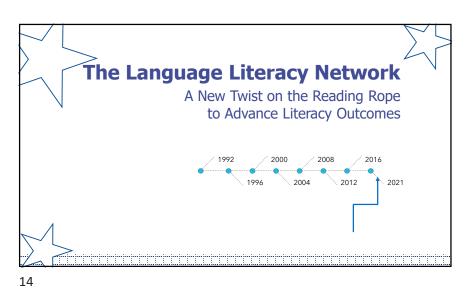




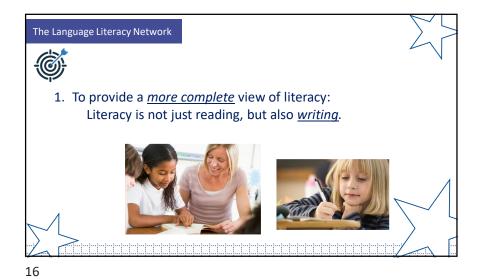
The Simple View of Reading Reading Word Language Recognition Comprehension Comprehension The ability to The ability to The ability to transform print into understand spoken understand written language spoken language 11



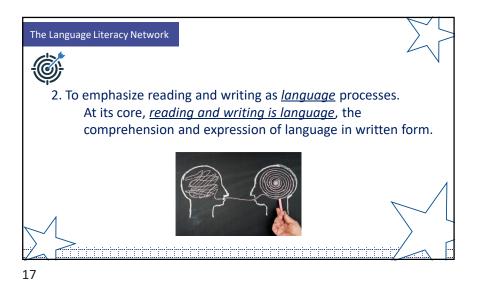


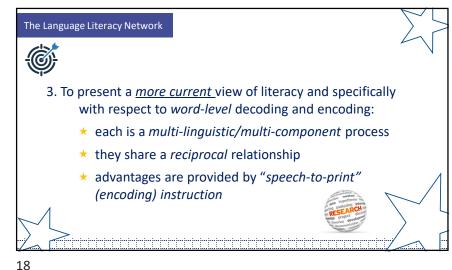


TLLN infographic (Wasowicz, 2021) is offered as a scholarly advancement of the Reading Rope (originally hand-drawn in 1992 and later published in 2001). TLLN reflects the same fundamental body of research which has withstood the test of time since the Reading Rope was created as a "lit review" by Dr. Hollis Scarborough. TLLN adds to that understanding based on a collective body of research since the Reading Rope was created 30 years ago.



15





4. To convey these concepts in an infographic that helps educators to

* think about literacy as reading <u>and</u> writing;

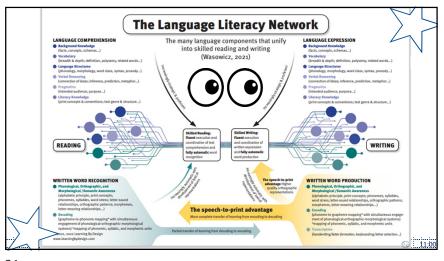
* wrap their brains around the functional connectivity of many language components in skilled literacy;

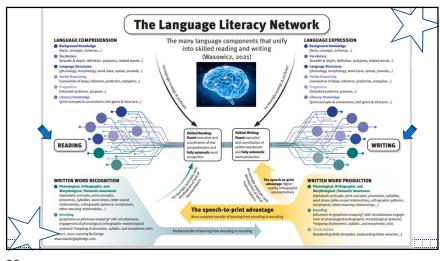
* think about and evaluate their own practices.

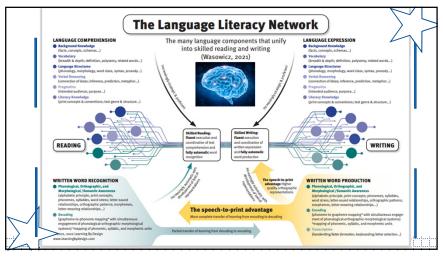


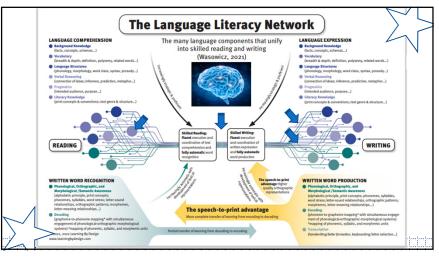
©2024 Learning By Design, Inc. www.learningbydesign.com

19

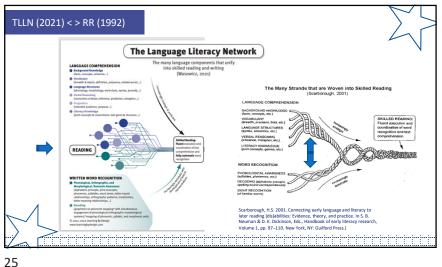


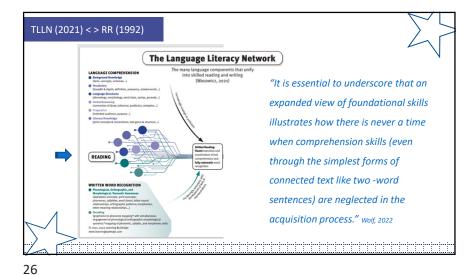


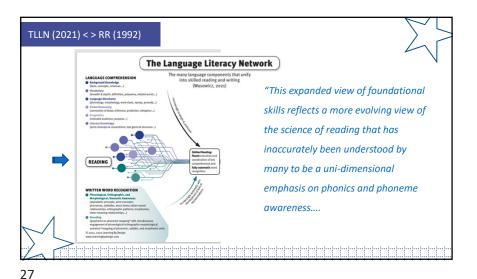


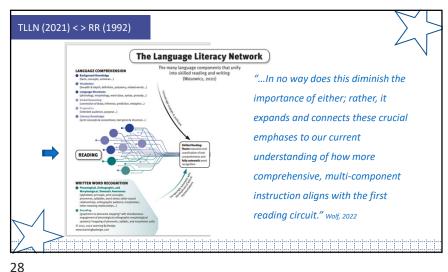


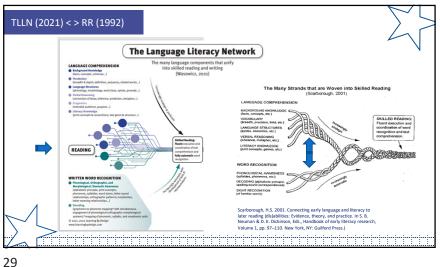
23 24

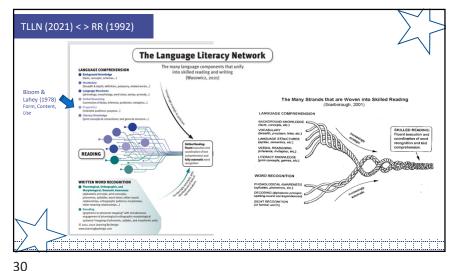


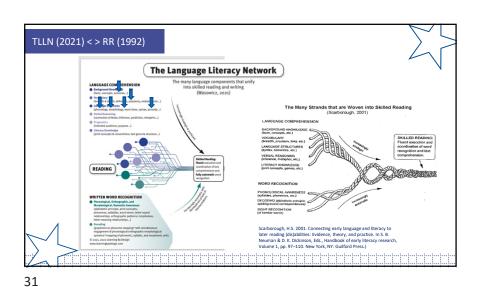


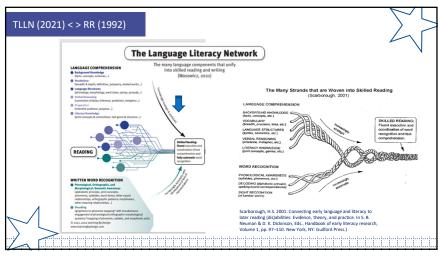


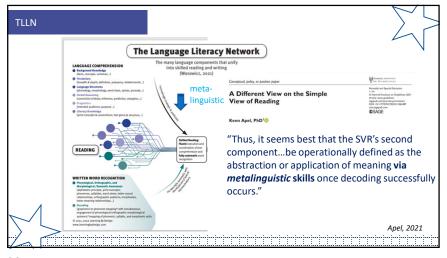


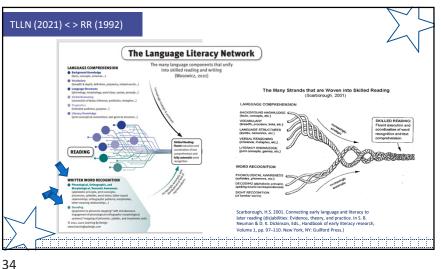


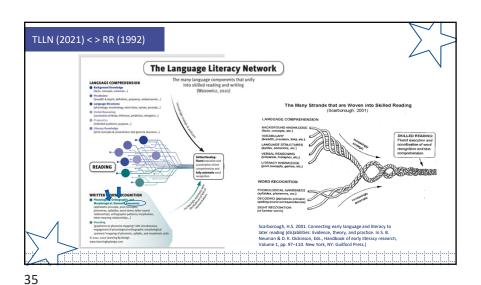


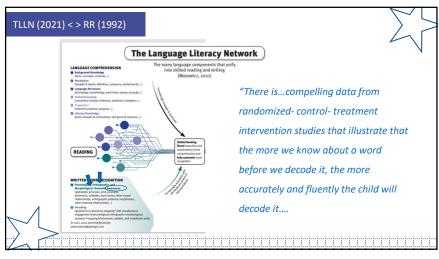




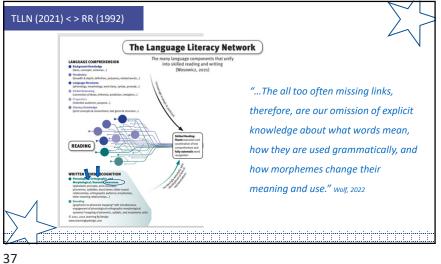


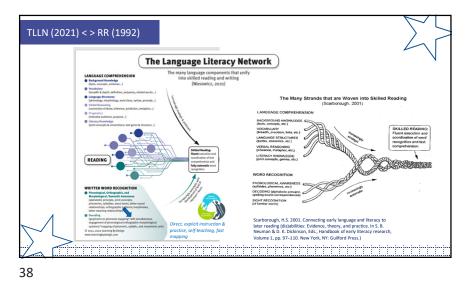


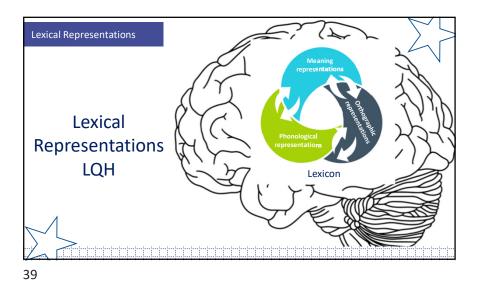


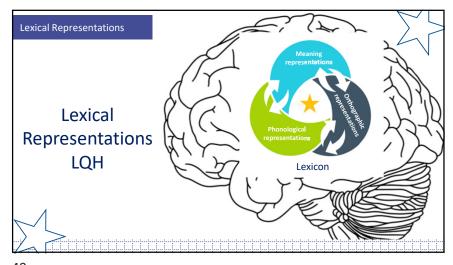


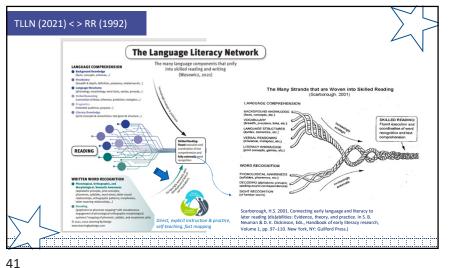
36



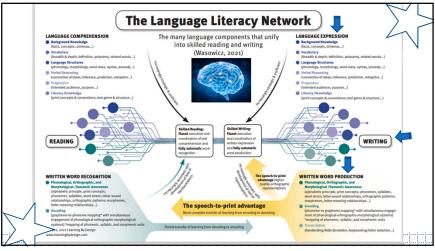






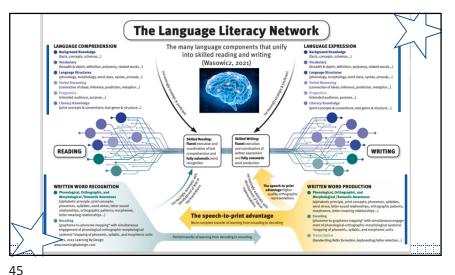


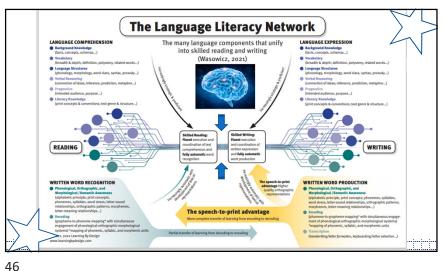
Writing: Overview **The Language Literacy Network** Writing = the other half of literacy Top and bottom level processes are related with one another with a bidirectional, interactive relationship between reading and writing from early on Connectionist model, dynamic interplay especially at the lexical / sub-lexical levels Transfer of skills between encoding and decoding and the S2P advantage 42

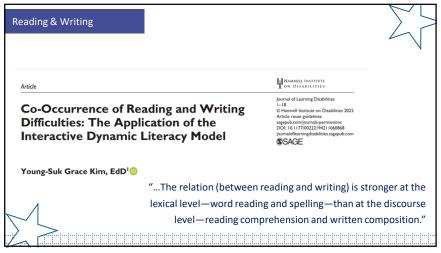


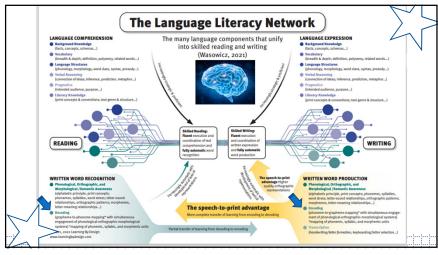
Reading & Writing HAMMILL INSTITUTE Journal of Learning Disabilities Co-Occurrence of Reading and Writing © Hammill Institute on Disabilities 2 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/00222194211060868 Difficulties: The Application of the Interactive Dynamic Literacy Model \$SAGE "...reading and writing...draw on largely shared processes and Young-Suk Grace Kim, EdD¹ skills as well as unique processes and skills. As such, reading and writing are dissociable but interdependent systems that have hierarchical, interactive, and dynamic relations.

43 44

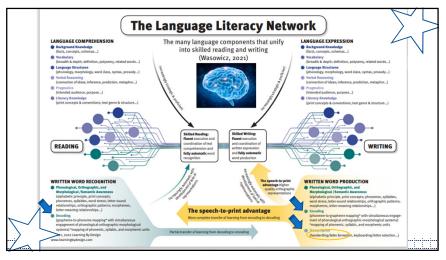


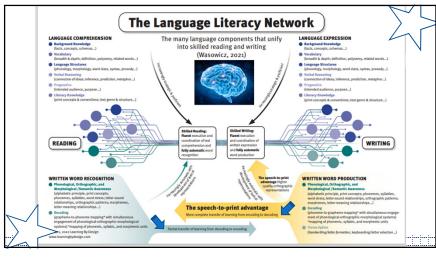


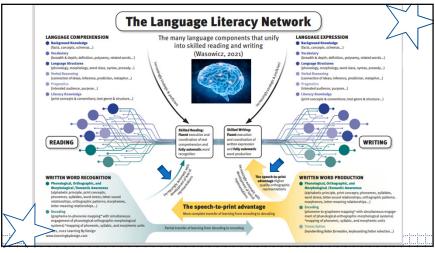


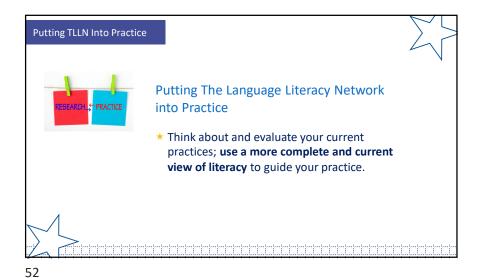


47 48



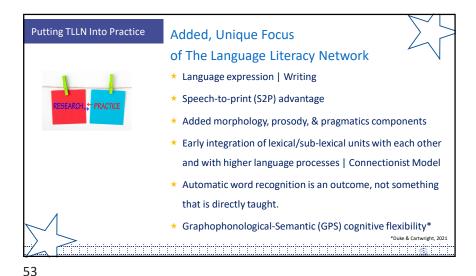


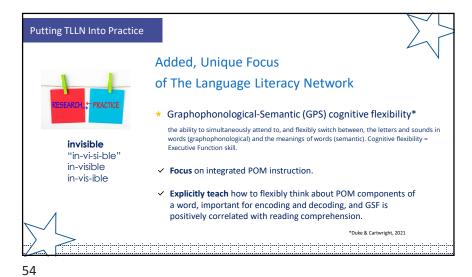




©2024 Learning By Design, Inc. www.learningbydesign.com

51





The Language Literacy Network

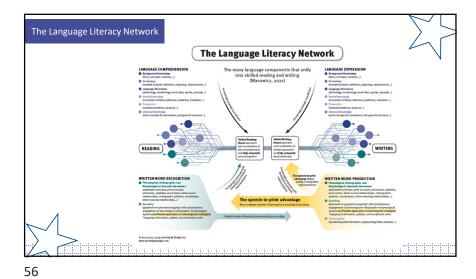
The Language Literacy Network

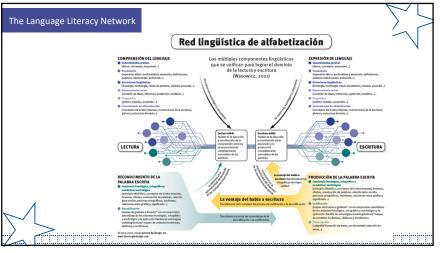
The Hanguage Literacy Network

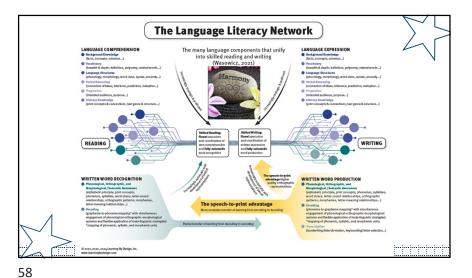
The Language Literacy Network

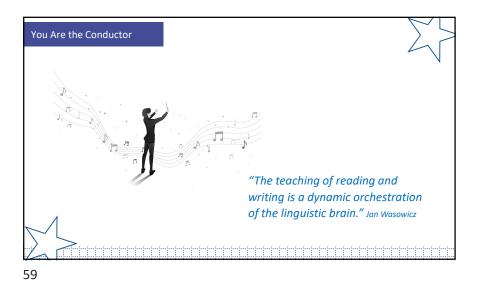
The Hanguage Literacy Network

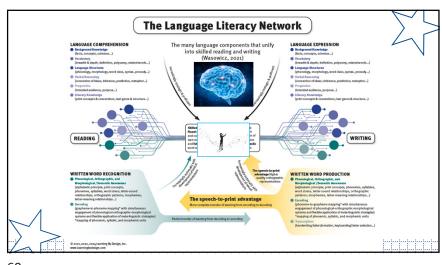
The Manage And T



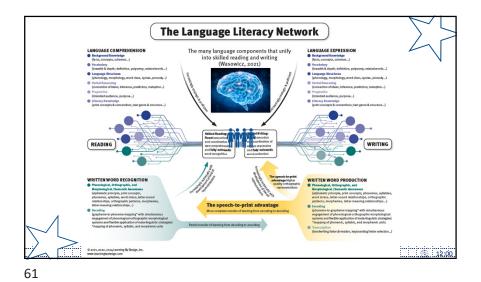








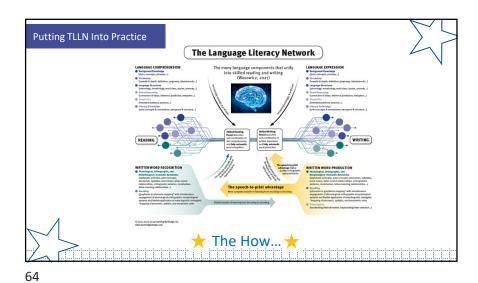
60

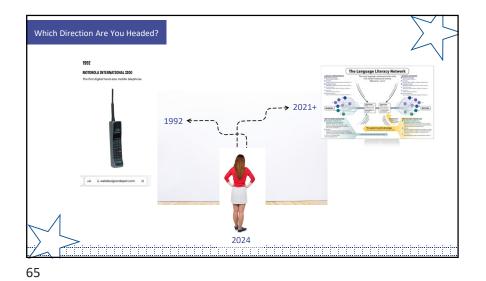


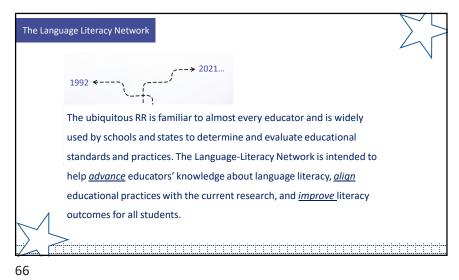


The Language Literacy Network

| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual Anguage Literacy Network
| Manual



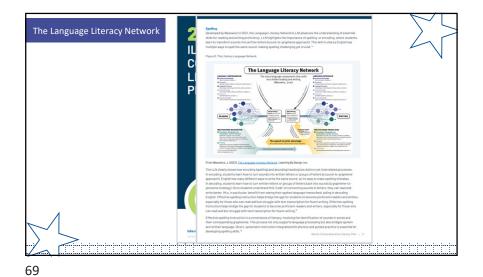


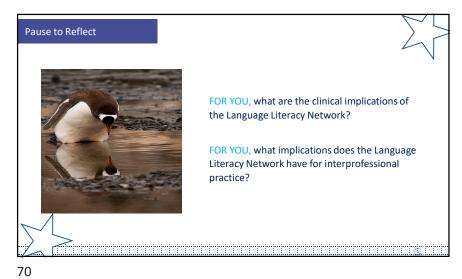


The Language Literacy Network

In disputed former former from the control of the



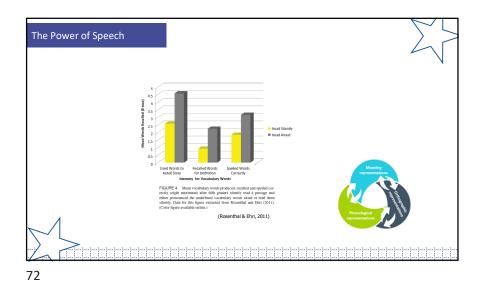


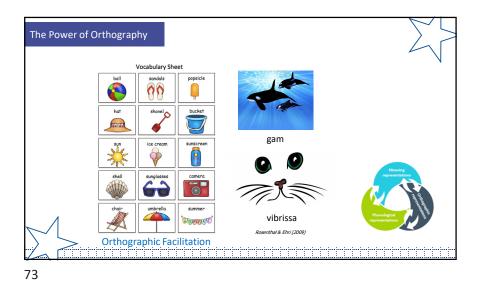


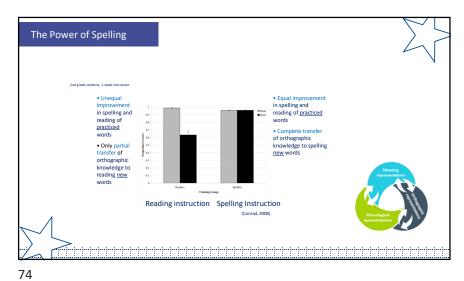
Putting TLLN Into Practice

RESEARCH PRACTICE

71







Preschool:

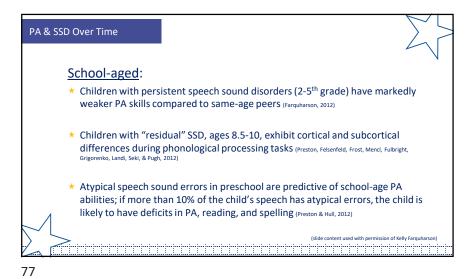
* Preschoolers with SSDs are at increased risk for deficits with phonological awareness (anthony et al., 2011; Bird, Bishop, & Freeman, 1995; Foy & Mann, 2011; Lewis et al., 2011; Lewis & Freebairn, 1992; Peterson, Pennington, Shriberg, & Boada, 2009; Raitano, Pennington, Tunick, Boada, & Shriberg, 2004; Rvachew, Ohberg, Grawburg, & Heyding, 2003)

* Atypical speech sound errors and distortions in preschool are predictive of weak PA skills (Preston & Edwards, 2010)

* This is true even when language is normal (Bird et al., 1995; Overby, Trainin, Smit, Bernthal, & Nelson, 2012; Raitano et al., 2004; Rvachew et al., 2003)

* The proportion of speech sounds in error at age 5 is related to the likelihood of persistent errors at age 8 (Roulstone et al., 2009)

76



Adolescents:

* 10 to 14-year-old children with "residual" speech sound errors (no comorbid diagnoses) have weaker phonological processing skills compared to same-aged peers (Preston & Edwards, 2007)

* Phonological processing (word reading and phonological working memory) skills have been shown to be weak even once the speech sound disorder is remediated (Farquharson, 2015; Raitano, Tunick, Pennington, Boada, & Shriberg, 2004)

78

80

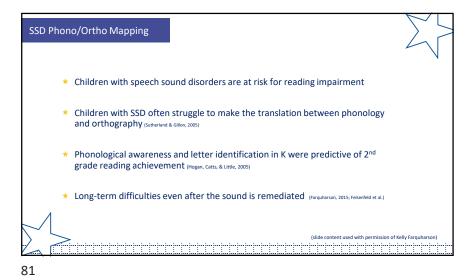
★ Children with speech sound disorders are at risk for reading impairment
 Sample Study of children getting school-based SSD tx found 25% had comorbid deficits in decoding words (Tambyraja, Farquharson, & Justice, 2020)
 Those "graduated" from SSD tx without PA instruction are likely to be flagged for reading/spelling impairment later

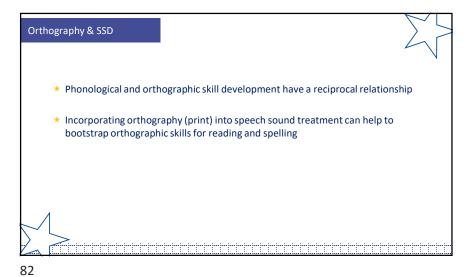
Incorporating PA into speech sound treatment can help to bootstrap phonological skills for both speech and reading

(dide content used with permission of Kelly Farquharson)

➤ PA can and should be taught at any age!

• Activities can be adapted to use words more appropriate for older children





* Exposing children to orthography is a fantastic and powerful linguistic tool

• Facilitates learning phonological skills

* This is appropriate at any age — what you ask of the child will vary based on age

• Younger children can identify letters and talk about hearing the sounds that different letters and letter patterns make

• Younger children can trace letters as they say letter names or sounds in written words

• Older children can write words, sentences, stories

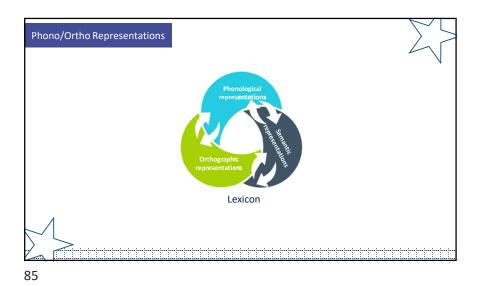
Adding PA + OPA to SSD Tx

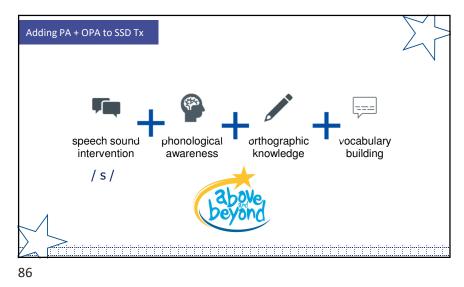
* Integrating SSD treatment, PA and orthography can lead to lasting improvements in:

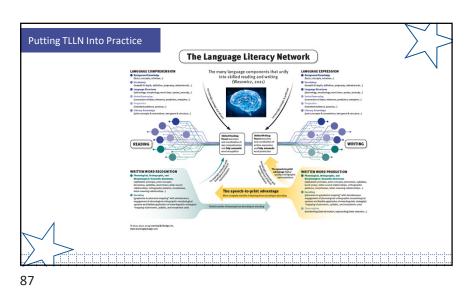
• speech production

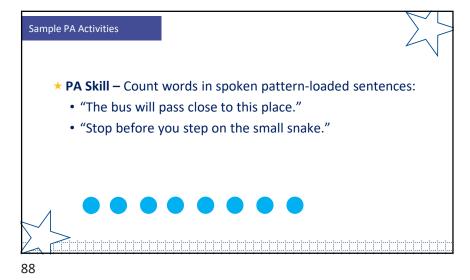
• phonological awareness

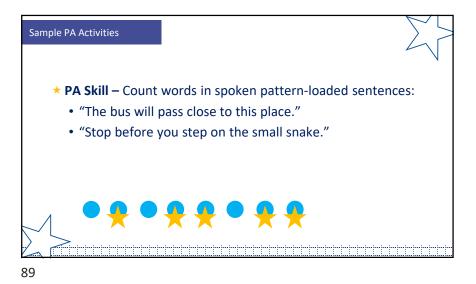
• reading and spelling accuracy (Gillon, 2000, 2002, 2005; McNeill, Gillon & Dodd, 2009)

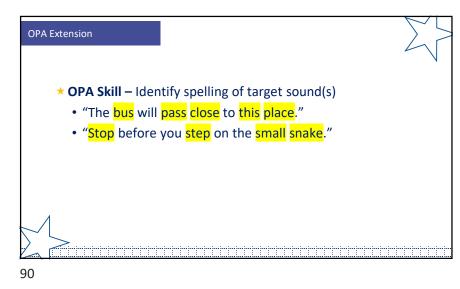








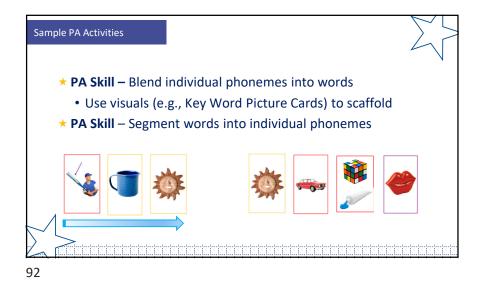


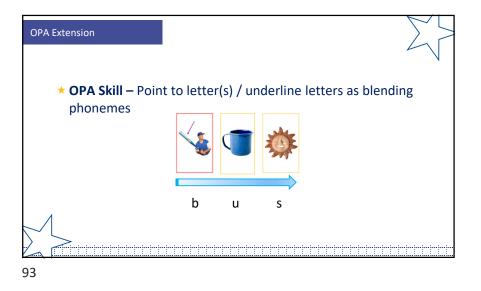


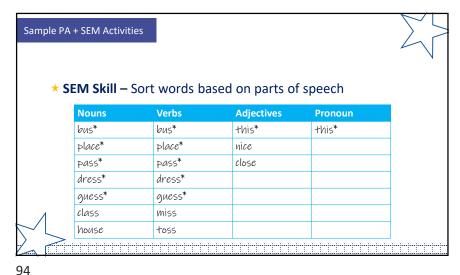
◆ OPA Skill – Identify spelling of target sound(s)

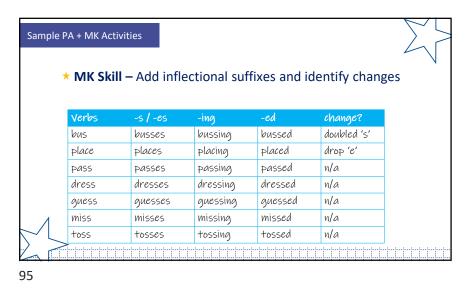
"The bus will pass close to this place."
"Stop before you step on the small snake."

91









* SEM Skill — Sort words based on category and add

• bus (transportation/vehicle) ... car, bicycle, scooter, skateboard

• dress (clothes) ... skirt, shorts, pants, coat

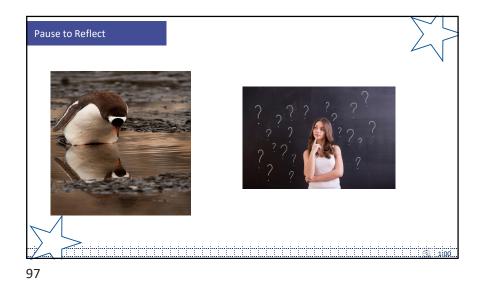
• snake (reptile) ... lizard, gecko, turtle

• school, store (building) ... house, hospital, skyscraper

* SEM Skill — Define words (category + distinctive feature/function)

• bus: a long vehicle with 12 or more seats for people (usually pay)

• snake: a reptile with a long thin body and no legs



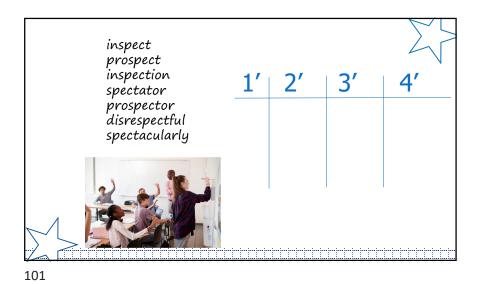
★ Phonological awareness inspect ★ Syllables, syllabic stress prospect ★ Phoneme-grapheme mapping inspection spectator ★ At the syllable level prospector ★ Oral expression / Syntax disrespectful ★ Parts of speech spectacularly ★ Morphology ★ Vocabulary development ★ Polysemy, depth, breadth ★ Background knowledge ★ Verbal reasoning; Cognitive flexibility Leveraging S2P & Reading

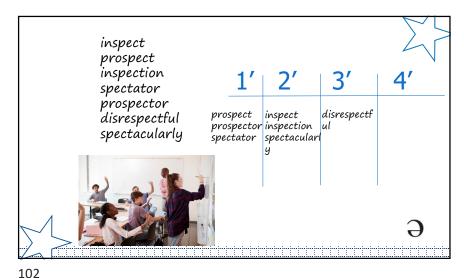
inspect
prospect
inspection
spectator
prospector
disrespectful
spectacularly

inspect
prospect
inspection
spectator
prospector
disrespectful
spectacularly

inspect
prospect
inspection
spectacularly
limits to the spectacularly
limits to the spectacularly
limits to the spectacularly
limits to the spectacular of the

98





inspect
prospect
inspection
spectator
prospector
disrespectful
spectacularly

