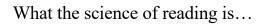




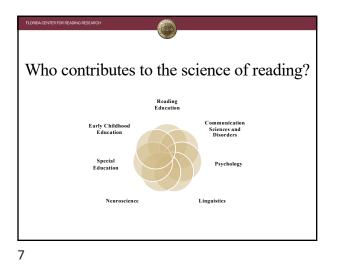
What the science of reading is not...

- A particular program or set of programs
- A phonics-only or phonics-first approach
- · Limited to grades K-2
- A fixed or settled body of knowledge



The science of reading is an ever-evolving body of research on how children learn to read. It includes well-established frameworks, theories, and empirical studies on what works to build children's language and literacy skills.

Petscher et al., 2020; Zucker & Cabell, 2023

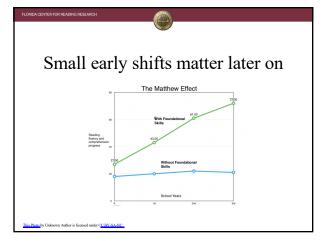


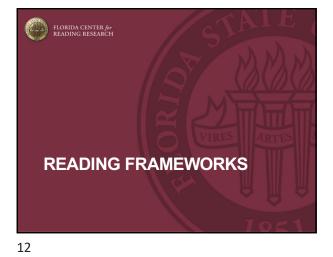


Not about pushing down Kindergarten into Preschout Sort / finisas by control of the source of the so

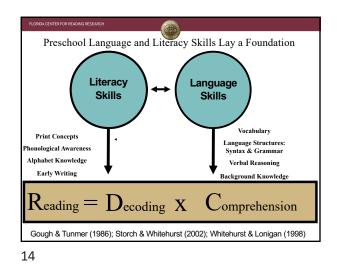
Getting Ready to Read by Laying a Firm Foundation

10

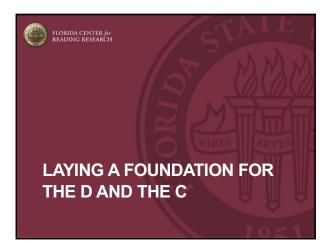


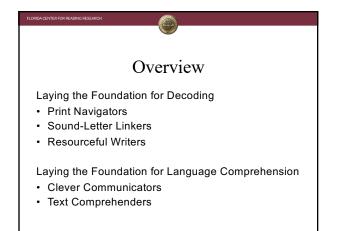


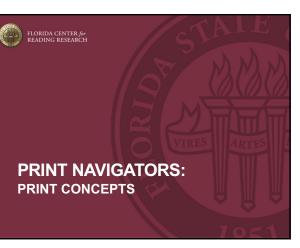
FLORIDA CENTER FOR READING RESEARCH	(A)	
Simple View of Reading		
Reading Comprehension	Automatic Word Recognition	Language Comprehension
R _{eading} =	Decoding X	Comprehension
Gough & Tunmer (1986)	
13		

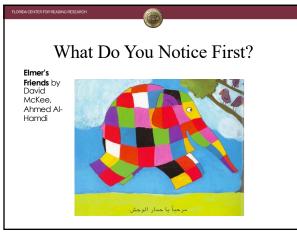


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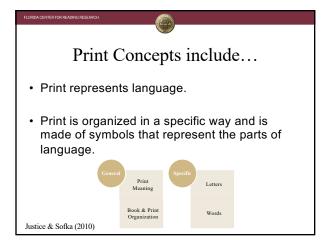


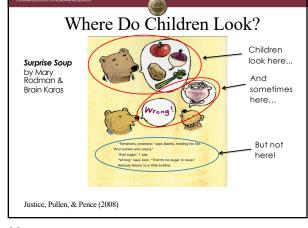






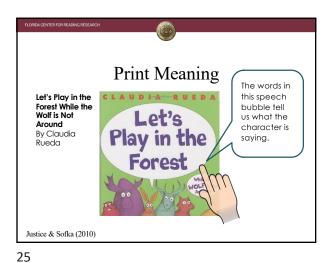










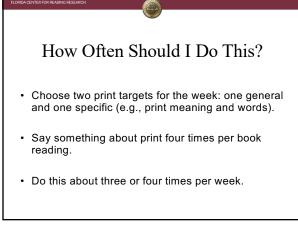


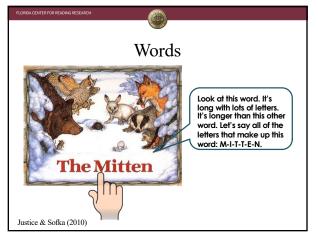
CORACECTER FOR RESERVENT

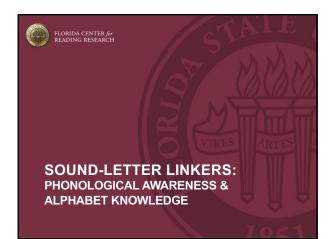
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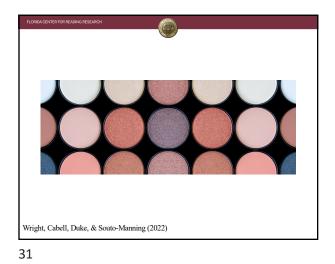
Letters Letters There are a lot of letters on this page. Here is the letter S. S for Sonia! Who else has an S in their ame? Justice & Sofka (2010)

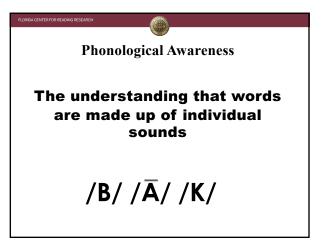
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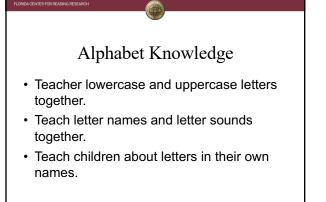






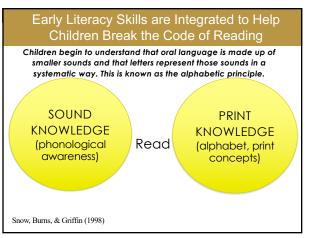






Wright, Cabell, Duke, & Souto-Manning (2022)

33

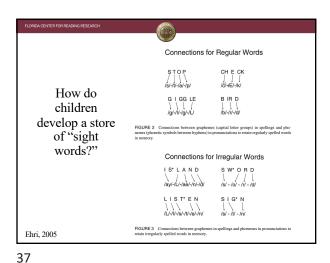


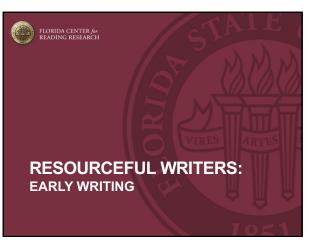


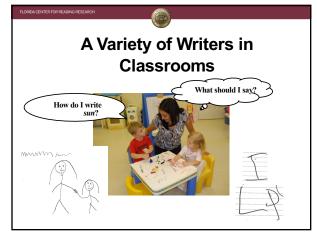
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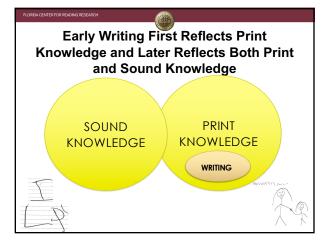
Games with movement Say It and Move It **/s/** /a/ Blachman et al. (2000)

36

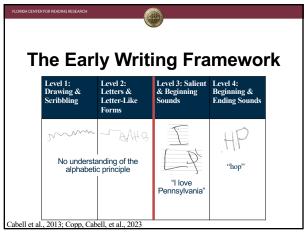


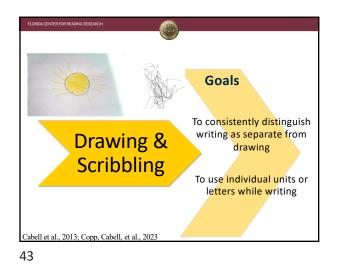


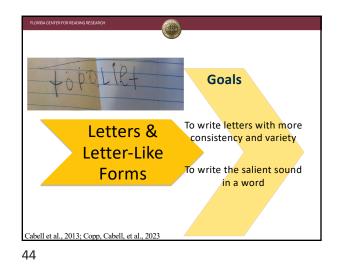




How Writing Relates to Other Literacy Skills Writing serves as a window into children's literacy knowledge As children learn more about print and sound, their knowledge is reflected in their writings Writing helps children's literacy grow As children engage in writing, they grow in their knowledge of print and sound

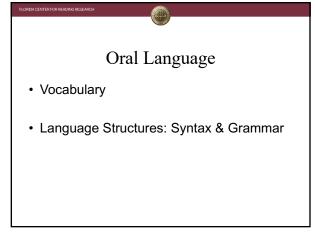




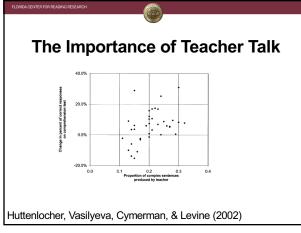


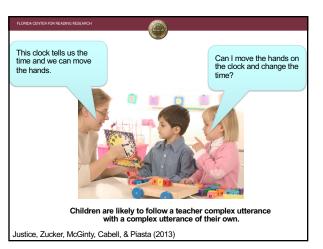








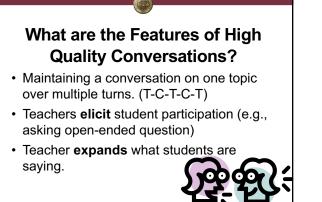






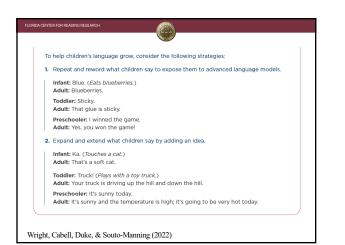


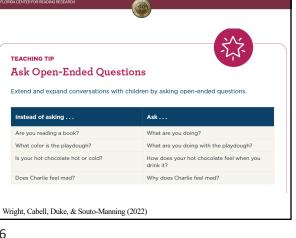




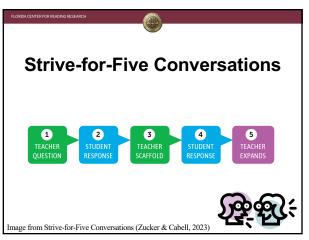
Cabell, Justice, McGinty, DeCoster, & Forston (2015)

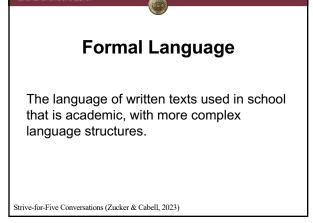


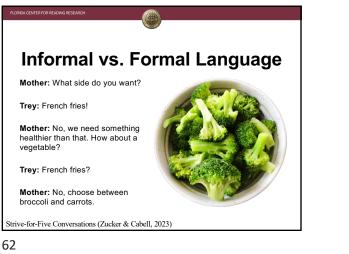










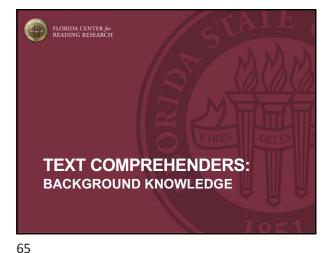




Strive-for-Five Conversations (Zucker & Cabell, 2023)

63

61



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64



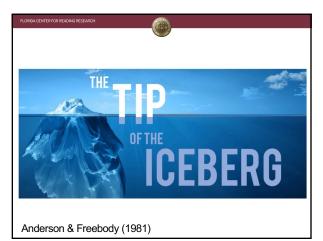
officers from different branches of service and, thus, in different uniforms. If that many ushers are not needed, other military guests may be asked in advance to assist the ushers in performing the service.

The Arch of Sabers

Customarily six to eight ushers create the arch. The ushers may be commissioned officers from different branches of service and, thus, in different uniforms. If that many ushers are not needed, other military guests may be asked in advance to assist the ushers in performing the service.

-The Army Wife Handbook (p.258; Crossley & Keller, 1996)





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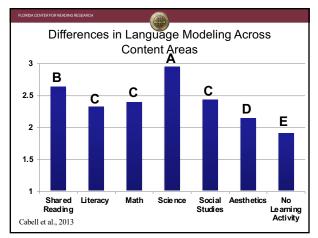




- Approximately 35 studies in K-5
- · Experiments or quasi-experiments
- Moderate-to-large effects on vocabulary and comprehension
- significant effect on standardized comprehension
- Large effects on content knowledge

Hwang, Cabell, & Joyner, 2022 in Scientific Studies of Reading

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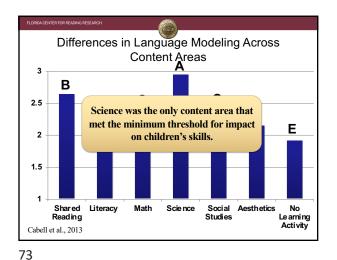


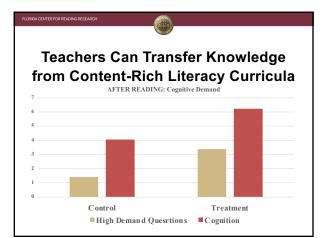


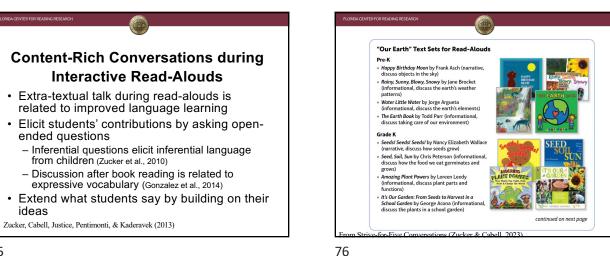
CKLA: Knowledge • Two randomized controlled trials in kindergarten in large urban districts • Vehicle of instruction: Content-rich interactive read-alouds • Impact on vocabulary and knowledge – On both researcher-created and standardized outcomes • This is one of the few early childhood studies to find generalized impact on vocabulary learning

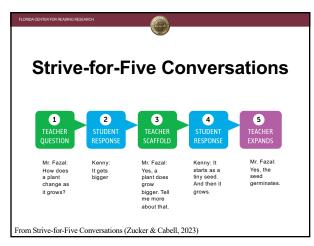
Research on

Cabell & Hwang (2020); Cabell, White, Kim, Hwang, & Gale (2019) Funded by Institute of Education Sciences, US DOE, under award number R305A170635 to FSU (PI Sonia Cabell)



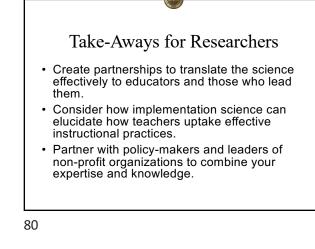


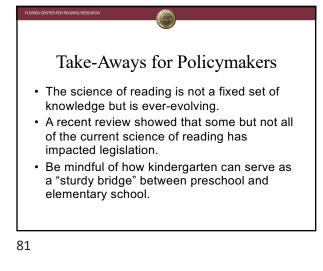


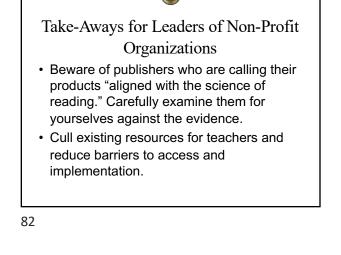


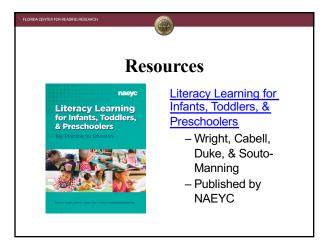


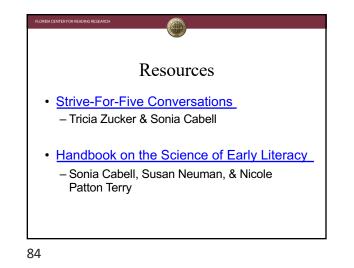




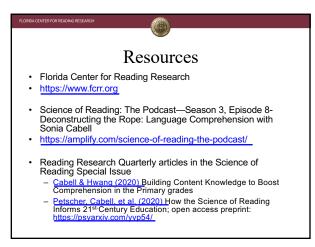


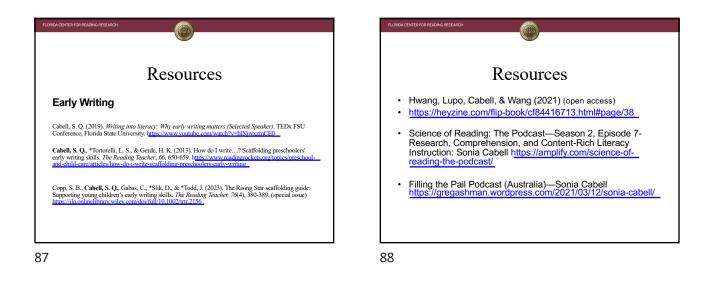


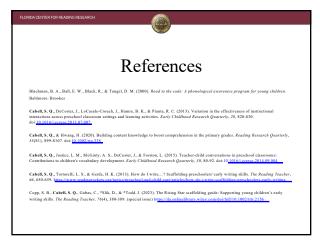


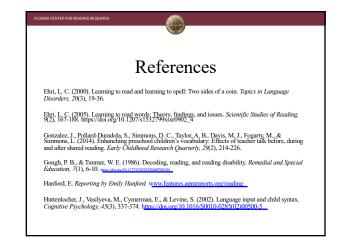


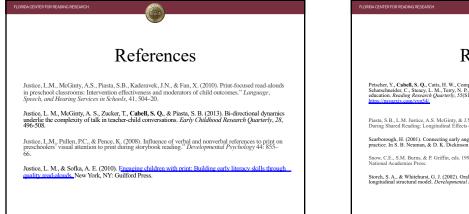


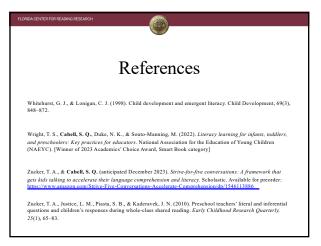












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References

Petscher, Y., Cabell, S. Q., Catts, H. W., Compton, D. L., Foorman, B. R., Hart, S. A., Lonigan, C. J., Phillips, B. M., Schatschneider, C., Steaey, L. M., Terry, N. P., & Wagner, R. K. (2020). How the science of reading informs 21st century cleancion. Reducing Research Quartery 53(51), 3257-3252. doi:10.1016/j.mr.552.pone access preprint copy available:

Piasta, S.B., L.M. Justice, A.S. McGinty, & J.N. Kaderavek. 2012. "Increasing Young Children's Contact with Print During Shared Reading: Longitudinal Effects on Literacy Achievement." Child Development 33: 810–20. Scarborough, H. (2001). Connecting early anguage and literacy to later reading (dis)abilities: evidence, theory and practice. In S. B. Neuman, & D. K. Diskinson (Eds.), *Handbook of early Interacy researk* (No. 1, pp. 97–110). Guilford. Snow, C.E., S.M. Barns, & P. Griffin, eds. 1998. Preventing reading difficulties in young children. Washington, DC: National Academics Press.

Storch, S. A., & Whitehurst, G. J. (2002). Oral language and code-related precursors to reading: Evidence from a longitudinal structural model. *Developmental Psychology*, 38(6), 934–947.