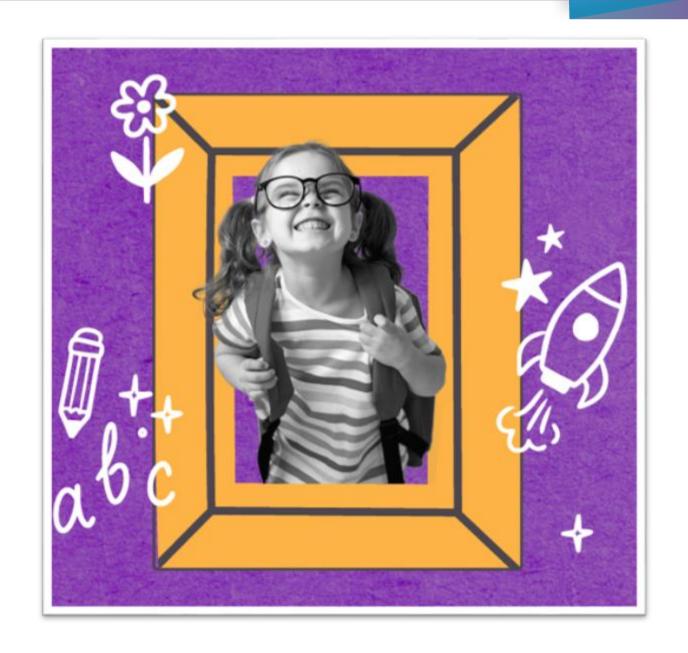


Rethinking School Readiness

LENA

October 30, 2024



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The Youngest Pandemic Children Are Now in School, and Struggling

With Kindergarten Readiness on the Decline, Some Districts Try New Interventions

Teachers: Kindergarten readiness tests are time-consuming, cut into instruction

Pandemic babies and toddlers struggle in school, research suggests

Navigating the 'big little leap' to kindergarten

Early Talk = School Ready Some Context

Scott McConnell Professor Emeritus, University of Minnesota







Opportunities and Challenges in Thinking about School Readiness

The Opportunity

- Giving clear targets to consider in preschool years
- A basis for program design and improvement

The Challenges

- Historical context
- Developmental view
- Situational variation
- Subgroup variation



What is "School Readiness?"

- An empirical quagmire
- What defines school readiness?
 - A set of discrete skills and characteristics?
 - A general condition or set of attributes?
 - An outcome?
 - o An interaction?
 - A contextually or geographically determined characteristic?
 - A theoretical and empirical apparition?



Any and all of these factors!



A Functional View

- School readiness is best considered...
 - A varied and complex set of child skills and characteristics
 - Something that develops over time, and is not a singular "state" or outcome
 - Adaptive to and adapted by the "school" that wants a child to be ready
- Let's think of it as a combination of factors that, together, set the occasion for an individual's success in kindergarten and beyond



A Functional View

 In other words, school readiness is both a set of skills and behaviors and a child's ability to negotiate and take advantage of learning in a new setting









Unpacking the Functional View

Skills and Behaviors

- Vocabulary
 - Basic Facts, letters, numbers, colors, etc
- Morphosyntactic language skills
- Interaction
- Problem solving
- Attention

Ability to Negotiate and Take Advantage of New Settings

- Listening
- Asking
- Negotiating
- Waiting
- Persevering



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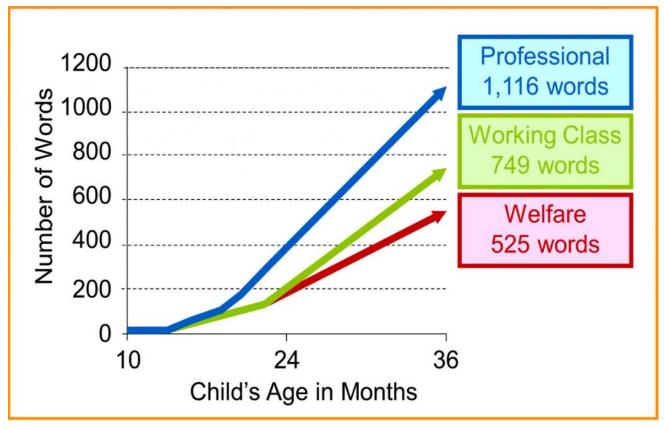


Only some of these are "skill-specific"...

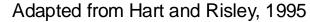


What Does This Mean for Early Talk?

We know that language development is built on conversational turns!









What Does This Mean for Early Talk?

- We know that language development is built on conversational turns!
- We know what happens when children and adults talk!
 - Vocabulary growth >> knowledge acquisition
 - Increased complexity of receptive and expressive language
 - Self-regulation
 - Self direction



The Net Effect – Early Talk and School Readiness

- Early talk, and the resulting language development, is ripe with benefits
 - Specific skill development
 - Overall interaction capacity
 - Experience with, and benefits from, interaction
- General outcome of improved language and language interaction has its own benefits
- "Intentional" skill acquisition is also needed to meet demands of future situations and standards



In short, early talk and all that produces it and comes with it can be a key factor in promoting school readiness







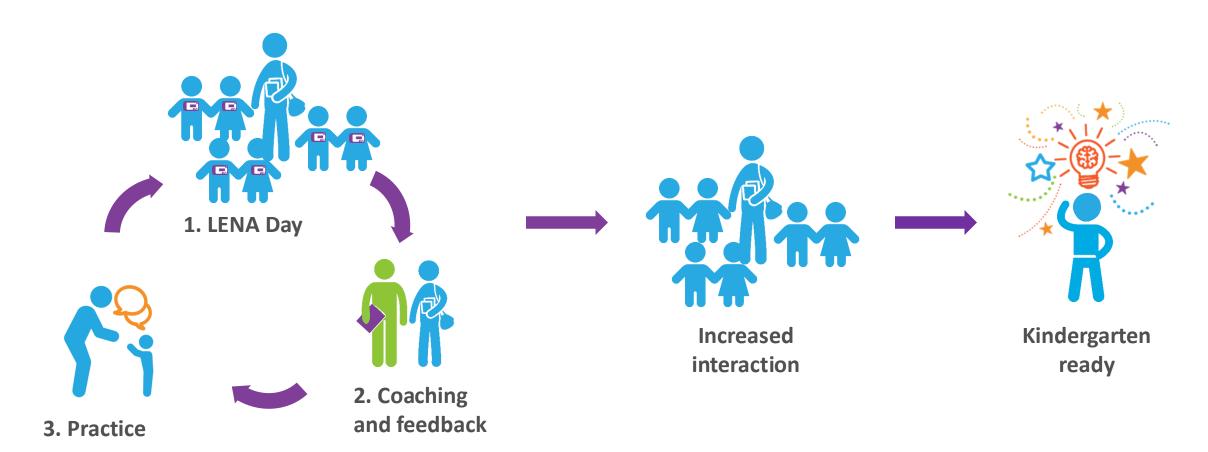
Central Question:

Do children who participate in LENA Grow begin kindergarten more ready (i.e., have higher scores on their kindergarten screener) than children who do not participate in LENA Grow?

LENA

GROW°

How it works





How do we answer this question?

Two Groups of Children

Create Matched Samples

Did not participate in LENA Grow before K







Participated in LENA Grow before K





Samples balanced with respect to:

- ✓ Gender
- ✓ Race/ethnicity
- ✓ Socio-economic status
- ✓ Special ed status (when possible)
- ✓ Language i.e., English proficiency (when possible)
- ✓ Preschool experience (when possible)
- ✓ Elementary school (when possible)

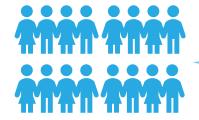


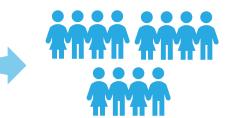
How do we answer this question?

Two Groups of Children

Create Matched Samples

Did not participate in LENA Grow before K









Participated in LENA Grow before K









K Readiness Scores

K Readiness Scores Are the scores for the LENA Grow children higher than their matched controls?



Research Partner: Cherokee County



Location

Cherokee County,
South Carolina

Readiness Measure

Kindergarten Readiness Assessment (KRA)

Sample

121 LENA Grow
204 Matched Controls

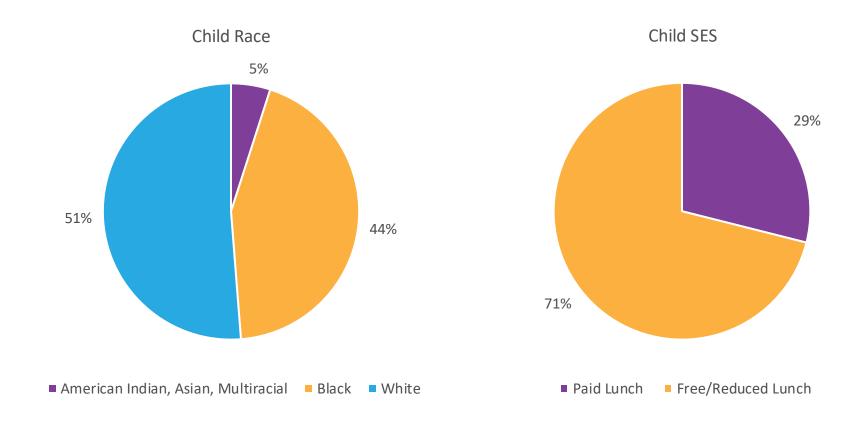
When did children experience Grow?

During Preschool/Pre-K
1-2 Years before K



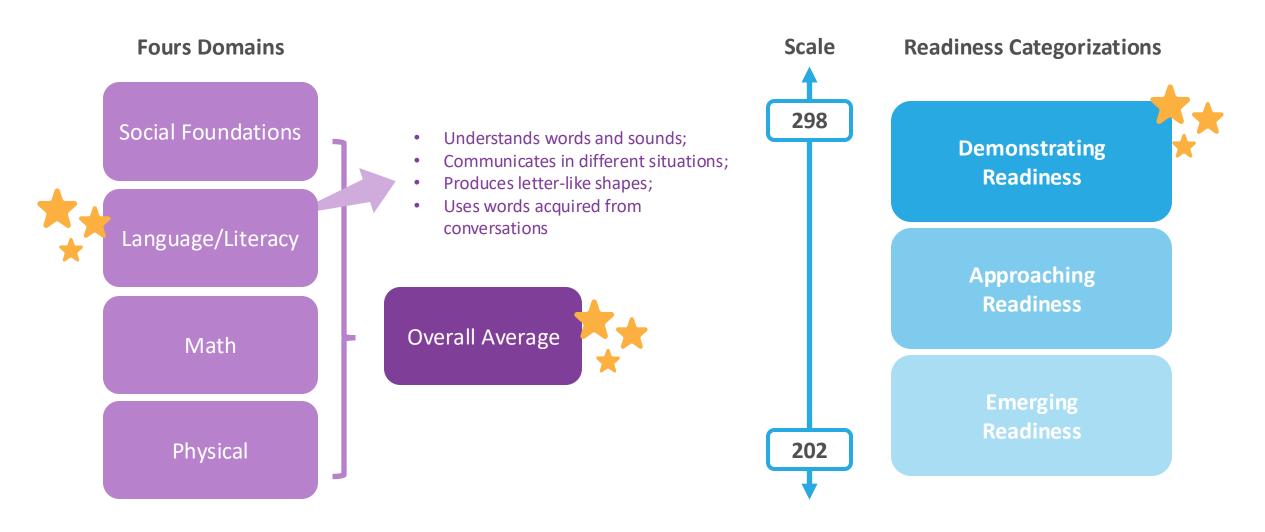
Cherokee – Grow Demographics







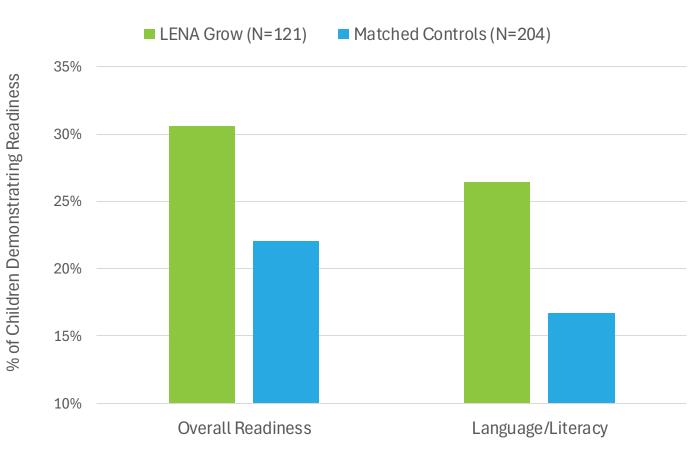
Cherokee County Assessment: KRA





Cherokee County KRA Results





Odds ratio of LENA variable from logistic regression: Overall = 1.56 (p = 0.089); Lang/Lit = 1.79 (p = 0.035)

Compared to controls, LENA Grow participants were:

- 1.6x more likely to demonstrate overall readiness
- **1.8x more likely** to demonstrate language and literacy readiness

Takeaway: LENA Grow increases children's school readiness



Research Partner: Henderson County



Location

Readiness Measure

Sample

When did children experience Grow?

Cherokee County,

Kindergarten Readiness
Assessment (KRA)

121 LENA Grow
204 Matched Controls

During Preschool/Pre-k



Henderson County, Kentucky

Brigance

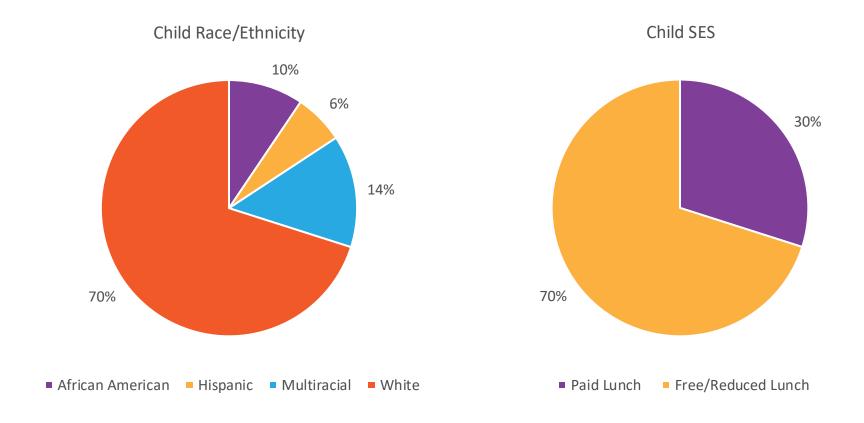
127 LENA Grow
127 Matched Controls

During Preschool/Pre-K
1-2 Years before K



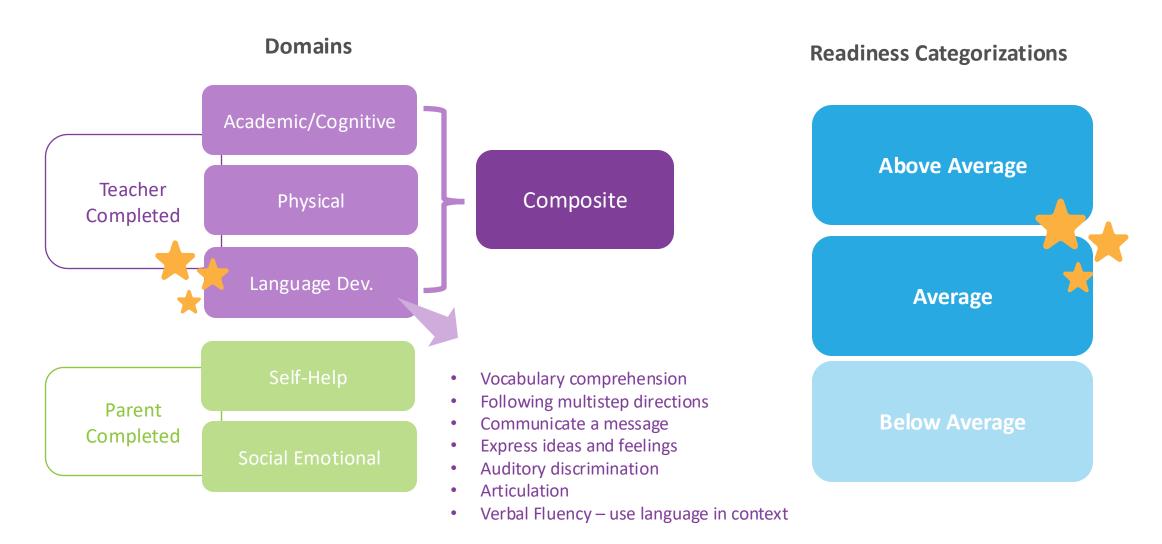
Henderson – Grow Demographics







Henderson County Assessment: Brigance



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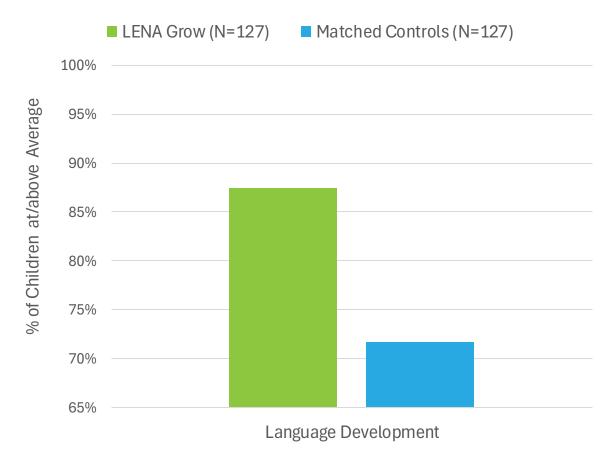
Henderson County Brigance Results



Compared to controls, LENA Grow participants were:

• 2.7x more likely to be at or above average in language development at the start of K

Takeaway: LENA Grow increases children's school readiness



Exponentiated odds ratio of LENA variable from logistic regression: 2.74 (p = 0.002)



Research Partner: Porter-Leath



Cherokee County,
South Carolina

Kindergarten Readiness Assessment (KRA)

121 LENA Grow
204 Matched Controls

During Preschool/Pre-K
1-2 Years before K



Henderson County, Kentucky

Brigance

127 LENA Grow
127 Matched Controls

During Preschool/Pre-l





Memphis/Shelby County,
Tennessee

i-Ready

33 LENA Grow
99 Matched Controls

During Preschool/Pre-K
1-2 Years before K

experience Grow?

When did children

Sample

Location

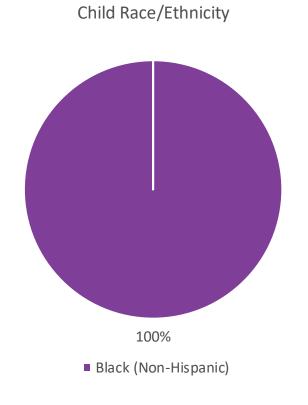
Readiness Measure

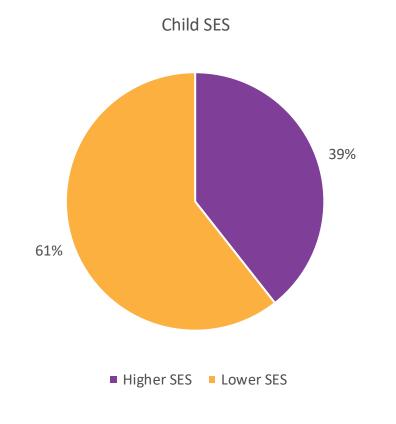
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Porter-Leath – Grow Demographics

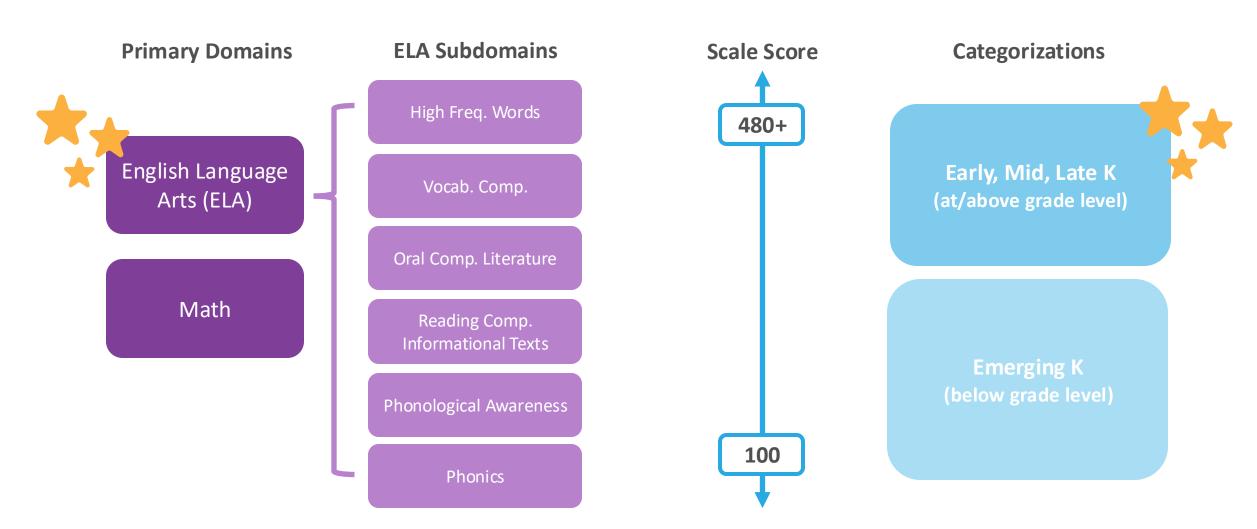








Memphis County Assessment: i-Ready



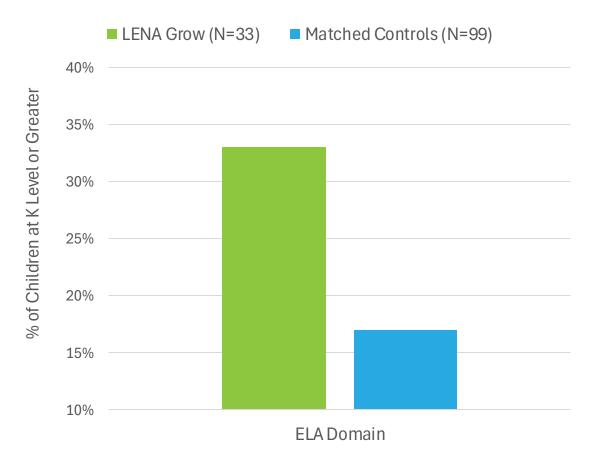
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Porter-Leath i-Ready Results







Exponentiated odds ratio of LENA variable from logistic regression: 2.41 (p = 0.053)

Compared to controls, Porter Leath LENA Grow participants who participated in the program between 3-5 years old were:

 2.4x more likely to be at K level with respect to English Language Arts





LENA Grow increases children's kindergarten readiness

Across three different districts and three different kindergarten readiness measures, LENA Grow participants were significantly more likely to be on track at the start of kindergarten than their non-LENA peers.

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Download our free resources!



Early Talk = School Readiness

Prepare young minds for future success at school — by talking with them now!

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