



Welcome!  
Introduce Yourself in the Chat!



Share your name,  
district, and your role

SUPERINTENDENT RESEARCH BRIEFING

# The Real Reason Most Districts Struggle with Science of Reading

Presented by the District Leadership Forum





Events for District Leaders

## Superintendent Research Briefings

We summarize the latest research on K-12's biggest challenges to help district leaders *get smart* and *make progress*.

“

EAB's research and information are some of the best I've seen...**simple, concise, easy to understand.**

”

*Superintendent,  
Missouri School District*



# A Unique Approach to Tackling Education's Most Complex Challenges



## We Harness a Network of Progressive Education Leaders

Our college, university, and public school district partners are committed to working together to improve performance and elevate student success

**2,500+**

**institutional partners**  
nationwide

**28,000+**

**education leaders** engaging  
with EAB every year



## We Provide Research- Driven Solutions and Access to Expertise

Our proprietary research model and deep bench of subject matter experts provide innovative and practical solutions to our partners most pressing problems

**30+**

**years researching** strategic  
challenges for students and schools

**500+**

**subject matter experts**  
available to partner organizations



## We Have a Relentless Focus on Turning Research into Results

Through expert consultations, diagnostic audits, implementation tools, and leadership training, we work closely with each partner to drive tangible results.

**95%**

**of partners choose to continue**  
our work together each year

# The District Leadership Forum

Helping Superintendents and Their Teams Make  
Faster Progress on Today's Most Complex Challenges



Set our research  
agenda



Share ideas, support each other



Advise EAB and pressure test our model

## Our Commitment to Forum Partners



Research current challenges to  
**find innovative, practical solutions**



Equip superintendents to  
**make the case for  
change**



Partner with leadership teams to  
**build capacity for leading  
change**



Engage teachers and staff to  
**tailor solutions to ensure progress sticks**

# Our Work Together Over the Last Five Years

Finding, Forging, and Implementing Best Practice Solutions to Pressing K-12 Challenges

## Research Addressing Myriad Complex and Often Nitty-Gritty Challenges Confronting Districts Nationwide

*Focal Issues for Our First Five Years*



Raising Early Literacy Scores



Reducing Disruptive Behavior



Closing College Access Gaps



Minimizing Chronic Absenteeism



Preventing Mental Health Crises



Developing Effective Principals



Responding to District Flashpoints



Optimizing Crisis Communications



Winning the Public Vote

*Still Just Scratching the Surface*



Becoming an Employer of Choice



Rethinking Special Ed. Service Delivery



Managing Your District's Brand



Strategic Staffing Models



Navigating Opportunities and Pitfalls of AI



Characteristics of High Performing Leadership Teams

# Meet Your Presenters



**Scott Fassbach**

*Chief Research Officer*

Scott.Fassbach@eab.com



**Faithe Zoda**

*Director,  
Partner Development*

FZoda@eab.com

## Connect with EAB

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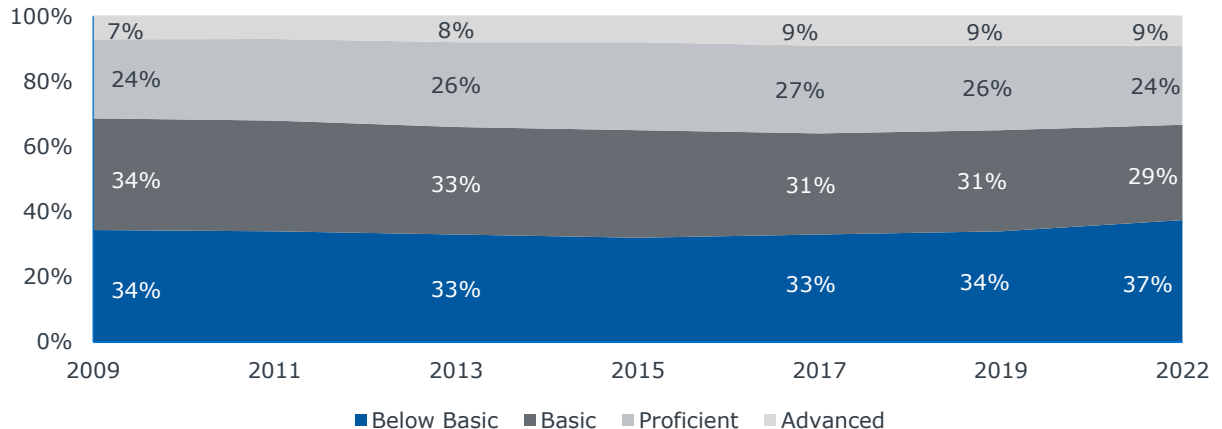
# Far Too Many Kids Can't Read at An Early Age



The Nation's Poor Reading Scores Remain Stagnant

## NAEP<sup>1</sup> 4<sup>th</sup> Grade Reading Scores Persistently Low

*Percent of Students Scoring at Each Achievement Level, 2009-2022*



### Minimal Growth in Reading Outcomes Over the Last Decade

**2%**

Percentage point increase in share of 4<sup>th</sup> grade students **at or above proficiency** since 2009

**66%**

Of 4<sup>th</sup> graders are reading **at or below basic** levels on NAEP in 2022

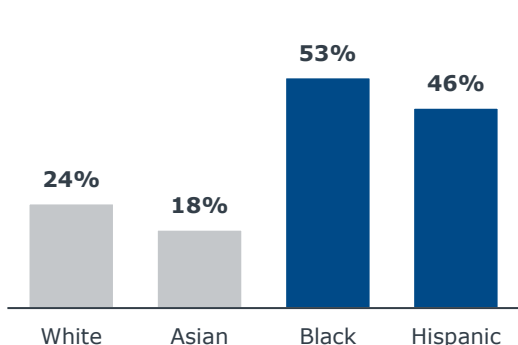
1) National Assessment of Educational Progress.

Source: The Nation's Report Card, 2019, [NAEP Data Explorer](#); EAB interviews and analysis.

# Poor Reading Outcomes Transcend Demographics

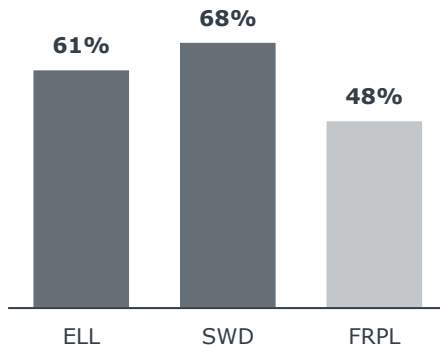
## While Minority Students Are At Risk for Poor Reading Scores...

*% of 4<sup>th</sup> Graders Performing Below Basic Reading Levels on NAEP, by Race/Ethnicity (2019)*



## ...Special Populations Are the Furthest Behind in Reading

*% of 4<sup>th</sup> Graders Performing Below Basic Reading Levels on NAEP, by Population Classification<sup>1</sup> (2019)*



## A Significant Share of Students from Highly Educated Families Struggle to Read



**30%**

Of struggling readers come from households with at least one **college-educated parent**



# Truth Be Told: There's No Excuse for Poor Outcomes

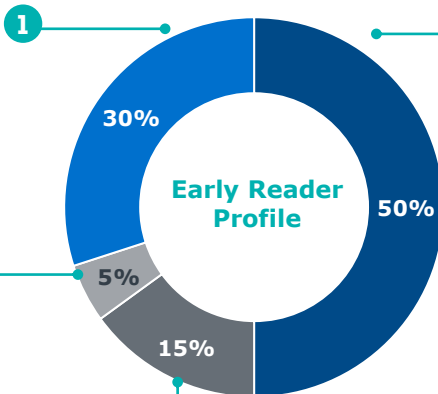
## Virtually Every Student Can Learn to Read

### Almost All Students Have the Cognitive Capacity to Read

*Distribution of Early Readers' Cognitive Ability, According to the National Institutes of Health*

#### 1 Capable of Learning Regardless of Environment

These students will learn how to read, regardless of instructional quality



#### 2 Able to Learn With High Quality Tier 1 Instruction

Half of students will learn to read from explicit and direct instruction in foundational skills

#### 4 Struggle with Severe Cognitive Impairments

Small subset of students have severe cognitive disabilities and will likely struggle to read throughout their schooling

#### 3 Require Additional Time and Support

Minimal share of students will eventually enter tier 1 with additional attention and support



95%

Of elementary students, regardless of background, are cognitively capable of learning to read when they receive sufficient direct instruction on the foundational skills of reading

# Good News: Science Provides a Blueprint for Reading



## Decades of Neuroscience Research Provides Insight on How Students Learn to Read

**42** Research centers nationwide examine reading-related brain activity

**30** Years of brain-based research dedicated to learning to read

“

### Science Has Implications For How to Teach Reading...

“We [NICHD] have multidisciplinary [research] teams—including cognitive neuroscientists and pediatricians—who have developed a body of information on reading and the brain that can inform practice in schools and policy.”

Dr. G. Reid Lyon  
*National Institute of Child Health  
and Human Development*

”

“

### ...And How Schools Can Help Struggling Readers Read

“Every year, there are hundreds of newly published, scientifically oriented research reports on reading...There is ample research that shows how weak readers can make substantial reading gains, with a fairly large percentage developing normalized reading skills.”

Dr. David Kilpatrick  
*Professor of Psychology, SUNY<sup>1</sup> Cortland*

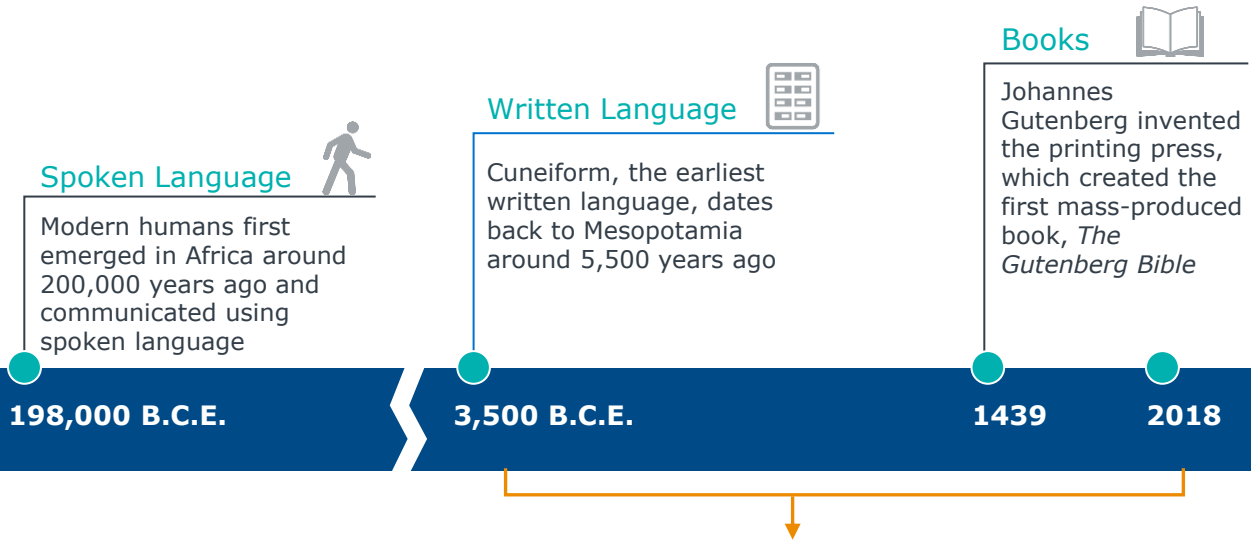
”

Source: Boulton, D (2015) “An Interview with Dr. G. Reid Lyon— Converging Evidence—Reading Research What it Takes to Read;” Loyd, G. (2009) “Reading Difficulties: Prevention, Early Intervention, and Remediation;” Kilpatrick, D. (2015) “[Essentials of Assessing, Preventing, and Overcoming Reading Difficulties](#);” EAB interviews and analysis.

# Human Brains Are Not Naturally Wired to Read

Reading and Writing Are Relatively Recent in the Span of Human Existence

## Timeline of Spoken and Written Language in Relation to Human History



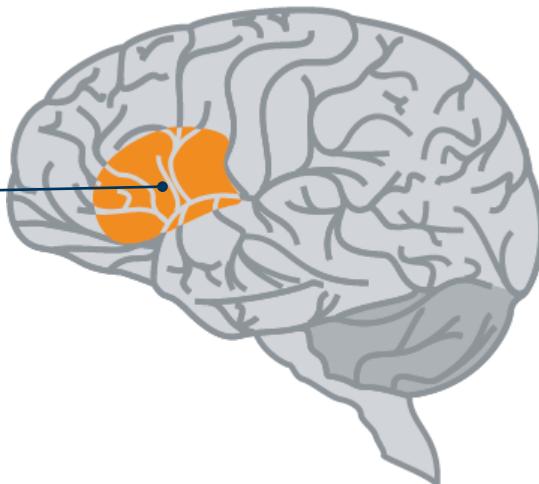
**<3%**

Of human existence includes written language and reading. **The human brain has not evolved to learn reading naturally.**

# Frontal Lobe Produces Speech, Processes Meaning

## Inferior Frontal Gyrus

- Located within the frontal lobe, which deals with executive functioning and higher-order processing
- Includes Broca's area, known for its role in speech production
- Linked to a semantic hub that assists in processing meaning



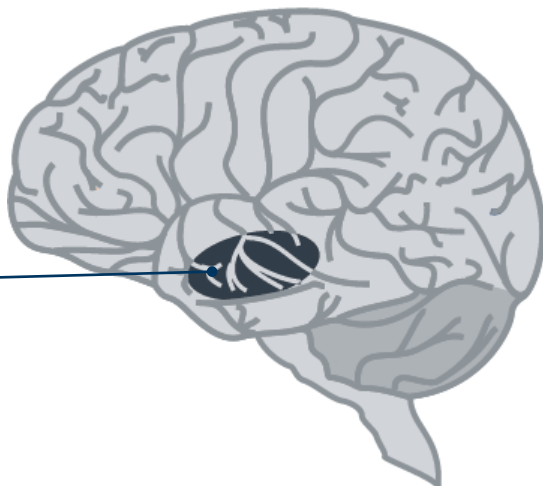
## Role in Reading: Speech Production, Fluency, and Comprehension

Essential for multiple functions, including grammatical usage, effective speech production, and language comprehension

# Auditory Cortex Builds Oral Word Understanding

## Auditory Cortex

- Located within the temporal lobe
- Processes auditory stimuli transmitted through the ears
- Contains Wernicke's area, known for its role in speech comprehension



## Role in Reading: Phonological Processing

Critical for the discernment and recognition of unique speech sounds, which is foundational to the decoding process



## Visual Cortex

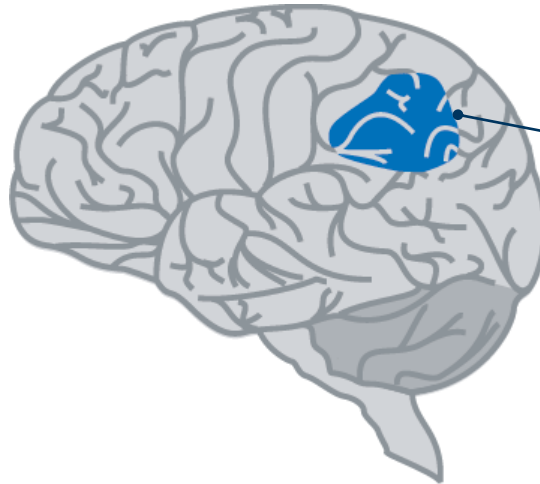
- Located within the occipital lobe
- Processes visual stimuli transmitted through the eyes



## Role in Reading: Orthographic Processing

Recognizes and processes visual information conveyed through written letters and words

# Angular Gyrus Associates Letters with Sounds



## Angular Gyrus

- Located within the parietal lobe
- Responsible for many multimodal functions
- Links semantic, phonological, and orthographic processors



## Role in Reading: Sound-Symbol Connections and Semantic Processing

Makes connections between sounds and visual representations of letters and words, which is critical for speech-to-print and print-to-speech circuits

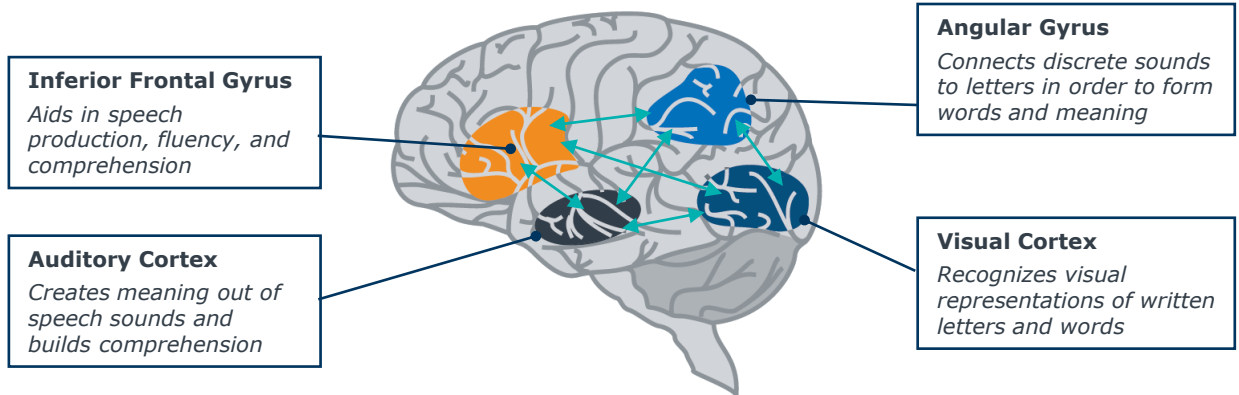
Source: Harvard Medical School, Department of Neurobiology, "[Reading and the Brain](#)," 2018; Burns, "[The Reading Brain: How Your Brain Helps You Read, and Why it Matters](#)," FastForward by Scientific Learning, 2017; Pegado et al., "Brain Pathways for Mirror Discrimination Learning During Literacy Acquisition," 2014; Buchweitz et al., "Brain Activation for Reading and Listening Comprehension: An fMRI Study of Modality Effects and Individual Differences in Language Comprehension," 2011; Seidenberg, *Language at the Speed of Sight: How We Read, Why So Many Can't, and What Can Be Done About It*, 2017; EAB interviews and analysis.

# There Is No Single “Reading Region”



## Reading Requires Building Neural Circuits Across Critical Brain Regions

*Regions of the Brain Activated While Reading, as Viewed in fMRI<sup>1</sup> Scans*



## Early Reading Instruction that Builds Neural Pathways Is Essential



The quality of reading instruction impacts a child’s white matter development—the neural pathways that connect areas of the brain

**56%**

Of variance in reading outcomes is accounted for by the change in volume in white matter between kindergarten and 3<sup>rd</sup> grade

1) fMRI= Functional Magnetic Resonance Imaging  
Source: Konnikova, M (2015) “[How Children Learn to Read](#),” *The New Yorker*; Myers, C (2014) “[White Matter Morphometric Changes Uniquely Predict Children’s Reading Acquisition](#),” Seidenberg, M (2017) *Language at the Speed of Sight: How We Read, Why So Many Can’t, and What Can Be Done About It*; EAB interviews and analysis.



## Research Distinguishes Strong From Poor Readers



*Key Differences Between Strong and Poor Readers, According to Numerous Studies*

### 1 Strong readers rely heavily on decoding skills

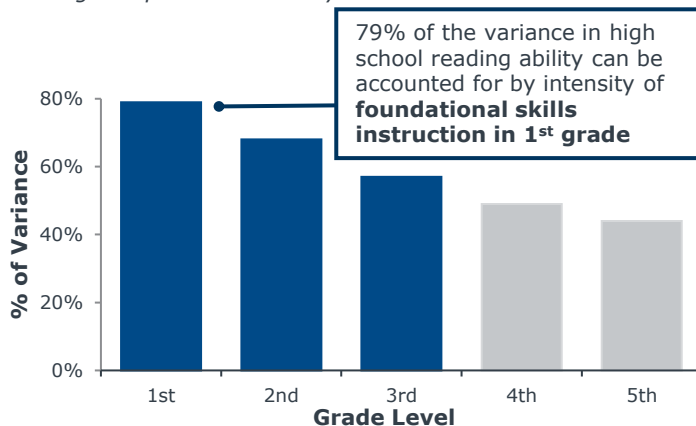
- Adelman (2012)
- Frost (1998)
- Gringirenko & Naples (2008)
- Halderman, et al. (2012)
- Pugh & McCardle (2009)
- Share (1995)

### 2 Poor readers rely heavily on context clues

- Corkett & Parrila (2008)
- Nation & Snowling (1998)
- Rack et al. (1992)
- Van Den Broeck & Geudens (2012)

## A Focus on Foundational Skills<sup>1</sup> in Early Grades is Essential for Future Reading Success

*Influence of Early Decoding Skills-Focused Instruction on Reading Comprehension Ability in Later Grades<sup>2</sup>*



**87%** Of English words are either fully or easily decodable<sup>3</sup>

- 1) Phonological awareness, print concepts, phonics/word recognition, and fluency
- 2) Results from a ten-year longitudinal study out of Yale University; n=445 randomly selected kindergarten students.
- 3) 50% of English words are fully decodable; 37% of words are mostly decodable with the exception of one sound, many of which can be solved by knowledge of prefixes, roots and suffixes

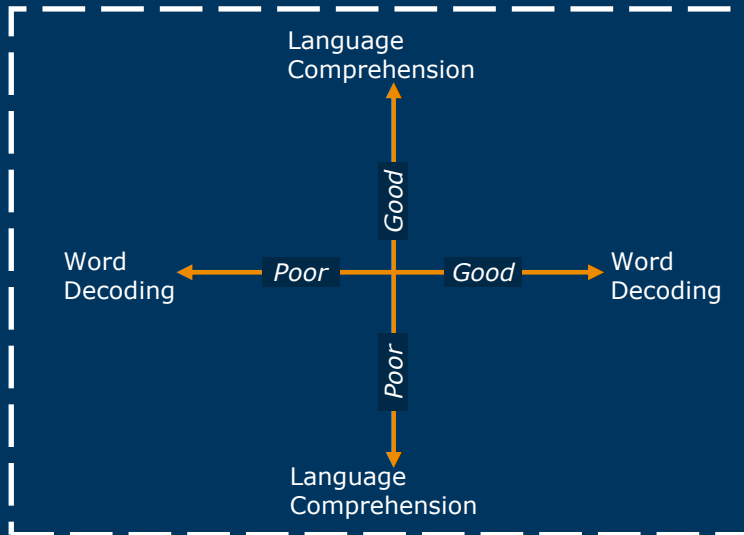
Source: Shaywitz, et al., (1999) "Persistence of Dyslexia: the Connecticut Longitudinal Study at Adolescence;" Student Achievement Partners, "[Foundational Skills Guidance Documents: Grades K-2](#)"; Kilpatrick, D. (2015) "Essentials of Assessing, Preventing, and Overcoming Reading Difficulties"; Reed, D. (2016), "[The Importance of Phonics Instruction For All Students](#)," Iowa Reading Research Center EAB interviews and analysis.



# The Simple View of Reading

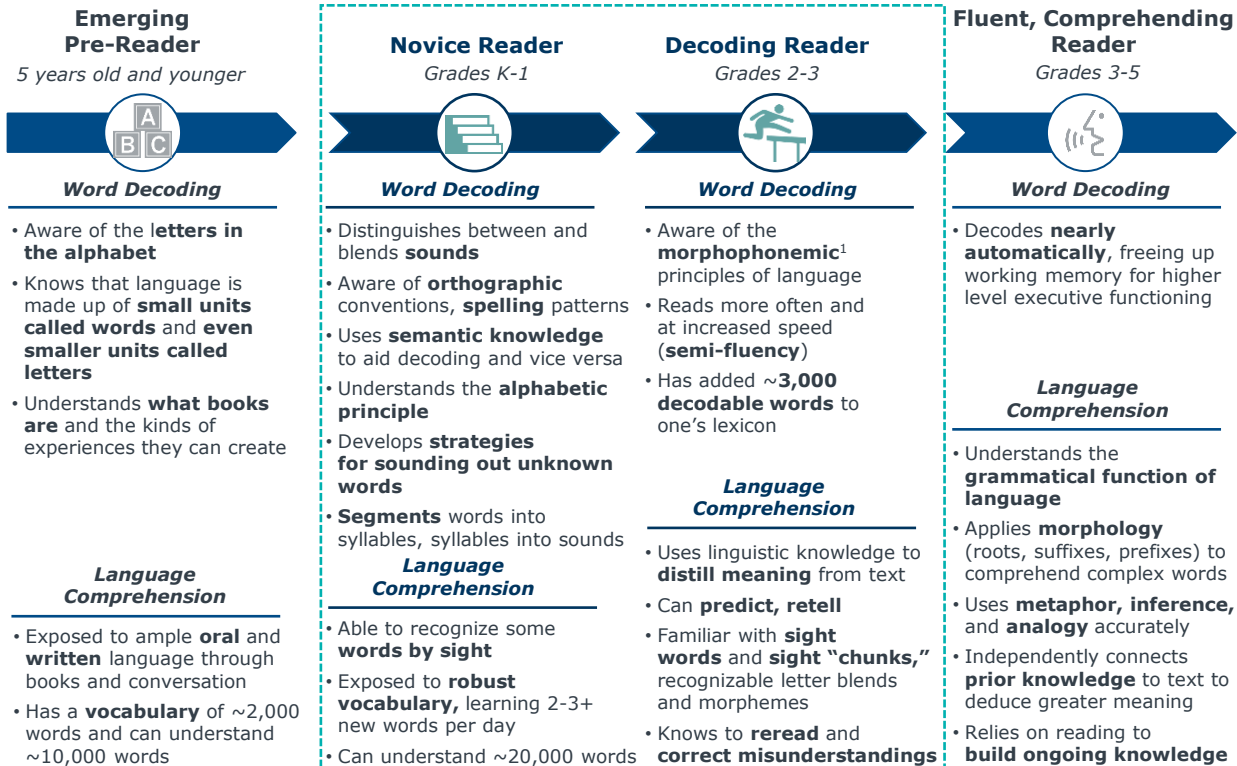
Research-Based Equation for How Students Learn to Read

Reading Comprehension = Word Decoding  $\times$  Language Comprehension



# Reading Mastery Is an Ongoing Progression

## Phases of a Student's Reading Development



1) The relationship between sounds and word units and the rules that govern their pronunciation ©2023 by EAB. All Rights Reserved. eab.com

# What Does the Science Mean for Comprehension?

## Developing Good Readers Requires Ongoing Comprehension Support

### 1 Morphological Awareness

Explicit instruction in **morphology, or the study of the structure of words and word formation**, helps students build lifelong comprehension skills by recognizing the meaning of word roots, prefixes, and suffixes.

Example of Word Comprehension through Morphology

Prefix	Root	Suffix	Full Word
<b>un-</b>	<b>system</b>	<b>-atic</b>	<b>Unsystematic</b>
<i>Negates, "opposite of"</i>	<i>noun, "an organized process"</i>	<i>converts noun to adjective</i>	<i>Something that is not done according to an organized plan or process</i>

### 2 Explicit Vocabulary Instruction

Teachers can help students build their working vocabulary by using more robust vocabulary in class and teaching at least 2-3 new words per day in 1<sup>st</sup> and 2<sup>nd</sup> grades and at least 6-8 new words per day for 3<sup>rd</sup> grade and older.<sup>1</sup>

#### Recommendation for Vocabulary Instruction

12

Average number of times that early readers need to encounter a new word before they know it well enough to improve comprehension

### 3 Expanding Background Knowledge

Teachers should consider the **requisite background knowledge needed to access a text** and use pre-reading discussions to familiarize students with new words and concepts. Culturally diverse and responsive materials can facilitate **text-to-self** and **text-to-world connections**, while helping students develop an excitement for reading.



See the Appendix for a sample of multi-cultural texts by age level, based on the Teachers' Choices Reading List, and for strategies to aid ELLs<sup>2</sup> in language comprehension.

1) 800+ words per year in grades 1-2; 2,000+ words per year in grades 3+  
2) English language learners

# What Does the Science Mean for Word Decoding?

## Direct Instruction on Decoding Skills is Fundamental For Early Grades

### 1 Phonemic Awareness

Direct instruction related to recognition and production of the **44 speech sounds (phonemes) in the English language** is critical for students who are starting to learn to read, particularly for ELLs.<sup>1</sup>



See the [Science of Reading Implementation Guide](#) for a list of 44 English phonemes and links to lists of phonemes that prove challenging for ELLs.

### 2 Mastery of Print Concepts

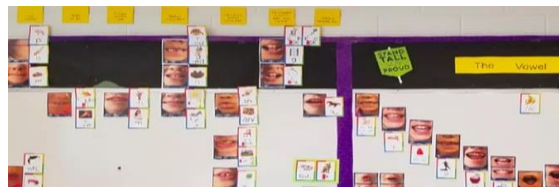
Recognizing letters and basic elements of print (*see right*) is foundational to mastering the **orthography** (writing system) of English. Teachers should create multiple and meaningful exposures to print to introduce students to the **alphabetic principle**.<sup>2</sup>

### 3 Phoneme-Grapheme Correspondence

Once students have acquired the alphabetic principle, teachers should explicitly explain how each of English's 44 speech sounds maps to a letter or letter combination (grapheme). **Sound walls** in early grades that include photos of each oral pronunciation help students practice individual sound-symbol correspondences (*see right*).

Language	Number of Speech Sounds
<b>English</b>	<b>44</b>
Haitian Creole	32
Mandarin	29
Spanish	24

- |                          |                                |
|--------------------------|--------------------------------|
| ✓ Front, back of book    | ✓ First, last word in sentence |
| ✓ Title of the book      | ✓ First, last word on page     |
| ✓ Where to begin reading | ✓ Capital letter               |
| ✓ One letter             | ✓ Lowercase letter             |
| ✓ One word               | ✓ Punctuation marks            |



1) English language learners

2) The systematic relationship between the written letters of an alphabet and its sounds

Source: The National Reading Panel (2000) "Teaching Children to Read;" American Speech-Language-Hearing Association, (2018) "Phonemic Inventories and Cultural and Linguistic Information Across Languages; Seldenberg, M (2017) "Language at the Speed of Sight: How We Read, Why So Many Can't, and What Can Be Done About It;" Basic Books, New York; Inuijo, S. "What Does Research Tell Us About Teaching Reading to English Language Learners;" "Print Awareness: Guidelines for Instruction," Reading Rockets; Castles et al. (2018), "Corrigendum: Ending the Reading Wars: Reading Acquisition from Novice to Expert," Association for Psychological Science; EAB interviews and analysis.

# Phoneme-Grapheme Correspondance



## Long Vowels

Phoneme	Graphemes	Examples
31. /e/	a, ai, eigh, aigh, ay, et, ei, au, a_e, ea, ey	<b>b</b> aby, <b>m</b> aid, <b>w</b> eigh, <b>s</b> traight, <b>p</b> ay, <b>f</b> ilet, <b>e</b> ight, <b>g</b> auge, <b>m</b> ade, <b>b</b> reak, <b>t</b> hey
32. /i/	e, ee, ea, y, ey, oe, ie, i, ei, eo, ay	<b>b</b> e, <b>b</b> ee, <b>m</b> eat, <b>l</b> ady, <b>k</b> ey, <b>p</b> hoenix, <b>g</b> rief, <b>s</b> ki, <b>d</b> eceive, <b>p</b> eople, <b>q</b> uay
33. /aɪ/	i, y, igh, ie, uy, ye, ai, is, eigh, i_e	<b>s</b> pider, <b>s</b> ky, <b>n</b> ight, <b>p</b> ie, <b>g</b> uy, <b>s</b> tye, <b>a</b> isle, <b>i</b> sland, <b>h</b> eight, <b>k</b> ite
34. /o/	o, oa, o_e, oe, ow, ough, eau, oo, ew	<b>o</b> pen, <b>m</b> oat, <b>b</b> one, <b>t</b> oe, <b>s</b> ow, <b>d</b> ough, <b>b</b> eau, <b>b</b> rooch, <b>s</b> ew
35. /u/	o, oo, ew, ue, u_e, oe, ough, ui, eu, ou	<b>w</b> ho, <b>l</b> oon, <b>d</b> ew, <b>b</b> lue, <b>f</b> lute, <b>s</b> hoe, <b>t</b> hrough, <b>f</b> ruit, <b>m</b> aneuver, <b>c</b> roup
36. /ju/	u, ou, eau, ew, ieu, iew, eu, yu, eue	<b>u</b> niform, <b>y</b> ou, <b>b</b> eauty, <b>f</b> ew, <b>a</b> dieu, <b>v</b> iew, <b>f</b> eud, <b>y</b> ule, <b>q</b> ueue
37. /ɔɪ/	oi, oy	<b>s</b> oil, <b>t</b> oy
38. /aʊ/	ow, ou, ough	<b>n</b> ow, <b>s</b> hout, <b>b</b> ough

# Most Reading Instruction Fails to Align with Science

Typical Classrooms Rarely Incorporate the Science of Reading

## Limitations of Status Quo Early Elementary Reading Instruction



**Unfamiliarity with Foundational Reading Skills**

60%

Of elementary teachers have **never been trained** in strategies for teaching phonemic awareness, phonics, vocabulary, fluency and comprehension



**Oversimplified Phonemic Awareness**

95%

Of early elementary classrooms **spend insufficient time** providing direct instruction on all English phonemes<sup>1</sup>



**Overemphasis on Using Context Clues for Decoding**

80%

Of early elementary teachers **encourage students to use pictures or context clues** to identify unfamiliar words

“A look at the research reveals that **the methods commonly used to teach children to read are inconsistent with basic facts about human cognition and development** and therefore make learning to read more difficult than it should be... In short, what happens in classrooms isn't adequate for many children.”

*Mark Seidenberg, Cognitive Neuroscientist, University of Wisconsin-Madison*

1) In fact, most 2<sup>nd</sup>-4<sup>th</sup> grade curricula and assessments stop monitoring phonemic awareness, even though phonics skills continue to develop through fourth grade (David Kilpatrick, 2015)

Source: Kilpatrick, D (2015) "Essentials of Assessing, Preventing, and Overcoming Reading Difficulties;" Seidenberg, M. (2018) "Language at the Speed of Sight: How We Read, Why So Many Can't, and What Can Be Done About It;" EAB interviews and analysis.

# How Reading Is Still Taught in Most Classrooms



Despite Need for Foundational Skills, Comprehension Reigns Supreme

## Many Instructional Strategies Assume Mastery of Foundational Knowledge... *...Calling into Question the Developmental Validity of Their Use in the Early Grades*

*Common Comprehension Strategies that Crowd Out Foundational Emphasis*



### "Daily 5" Activities

Individual and peer-led activities are predicated on child's ability to read fluently and comprehend text



### Leveled Literacy

Non-specific leveling overlooks precise phonics-informed phonemic patterns and blends



### Balanced Literacy

Often overemphasizes comprehension strategies before ensuring mastery of decoding

“

You have to know how to read enough to then be able to learn from what you're reading. **If young children don't decode well enough, they're using too much cognitive space to comprehend what they're reading.** The word work aspect can free up that space to *then* start thinking about main idea, detail, inferencing, and the more metacognitive components.







Carol Tolman, Ed.D.

”



# Success Is Possible: Science Critical for Improvement

## Districts that Have Aligned Systems with Science Dramatically Improve

	 <b>Demographics</b>	 <b>Performance Before</b>	 <b>Performance After</b>
 <b>Rapides Parish</b> <i>(32 elementary schools)</i>	<b>FRPL 69%; Title I: 94%</b> Black: 43% Hispanic: 3% IDEA: 11% LEP: 2%	<b>18%</b> Of third graders reading on or above grade level in 2016	<b>63%</b> Of third graders reading on or above grade level as of March 2019
 <b>Bethlehem Area School District</b> <i>(16 elementary schools)</i>	<b>FRPL 57%; Title I: 82%</b> Black: 10% Hispanic: 39% IDEA: 17% LEP: 6%	<b>47%</b> Of kindergarteners scored at or above the DIBELS benchmark composite score in 2015	<b>84%</b> Of kindergarteners scored at or above the DIBELS benchmark composite score in 2018
 <b>Grant County Schools</b> <i>(2 elementary schools)</i>	<b>FRPL 46%; Title I: 50%</b> Black: 1% Hispanic: 1% IDEA: 18% LEP: 0.3%	<b>43rd</b> Lowest-performing school district out of 55 districts total in the state in 2010	<b>6th</b> Highest-performing school district out of 55 districts total in the state in 2016

# Narrowing the Third Grade Reading Gap

Embracing the Science of Reading to Ensure All Students Can Read

## 1

**Develop and Sustain Schoolwide Expertise in the Science of Teaching Reading**



1. Science of Reading Professional Development
2. Instructional Materials Selection Rubrics
3. Train the Trainer Sustainability Plan
4. Grassroots Pilot Success Models

## 2

**Hardwire Science-Based Instruction in the Classroom**



5. Principal Literacy Champions
6. Science-Directed Literacy Look-For
7. Video-Based Teacher Observations
8. Literacy Implementation Evaluations

## 3

**Redesign Small Group Instruction to Target Student Skill Deficits**



9. Skills-Based Grouping
10. Cross-Classroom Intervention Specialists

## 4

**Mitigate Summer Slide with Engaging Summer Programming**



11. Camp-Style Summer Literacy
12. Online Video Enrollment Campaigns
13. Summer School Attendance Incentives
14. Parent-Facing Literacy Nudges

# Getting Teachers Up the Science of Reading Curve

Many Schools Investing in Extensive (and Expensive) Training Programs

## Learning Outcomes of LETRS<sup>1</sup> Provide Teachers the Science of Reading



How the **brain learns to read** and its implication for educators



**Allocate time** effectively to enhance reading outcomes



Deep understanding of the **five foundational reading skills** and how to teach them



Supports for **building vocabulary**



Strategies for assessing and **addressing individual student skill deficits**



Knowledge of evidence-based instructional practices for both **ELL and students with disabilities**

### Vendor Overview:

*LETRS, Voyager Sopris Learning*



## Comprehensive Modules Provide Explicit Reading Instruction Advice

### *Recommended Core Requirements*



- 1 The Challenge of Learning to Read
- 2 The Speech Sounds of English
- 3 Teaching Beginning Phonics, Word Recognition, and Spelling
- 4 Advanced Decoding, Spelling, and Word Recognition
- 5 The Mighty Word: Oral Language and Vocabulary
- 6 Digging for Meaning: Understanding Reading Comprehension
- 7 Text-Driven Comprehension Instruction
- 8 The Reading-Writing Connection

# Myriad (Often Less Expensive) Training Options

EAB Can Help Your Teachers Choose the Right Approach for Your School

The screenshot shows the 'Virtual Teaching Resource Hub' page. At the top left is the UFLI logo and 'University of Florida Literacy Institute'. The main heading is 'Virtual Teaching Resource Hub'. Below it is the section 'Instructional Activities' with a paragraph explaining that the activities are designed to promote foundational literacy skills. A list of factors includes school scope, student skill level, and concept introduction. A 'Virtual Teaching Hub Menu' sidebar contains links for 'VIRTUAL TEACHING HOME', 'FREQUENTLY ASKED QUESTIONS', 'TUTORIALS', and 'MAKE A GIFT'. The main content area features six dropdown menus: 'Phonemic Awareness', 'Phoneme-Grapheme Correspondences', 'Decoding and Encoding', 'Irregular and High Frequency Words', 'Connected Text', and 'Writing'. The footer includes the UFLI logo, contact information for the University of Florida Literacy Institute (PO Box 117050, Gainesville, FL 32611-7050), and social media icons for Facebook, YouTube, Twitter, and a group icon.

UFLI University of Florida Literacy Institute

## Virtual Teaching Resource Hub

### Instructional Activities

The instructional activities found in the links below are designed to promote the development of strong foundational literacy skills. Which ones you select will be determined by the following factors:

- Your school's scope and sequence of skills. [If your school doesn't have a scope and sequence, click here to download ours.](#)
- Your students' skill level
- Whether the concept is being introduced or reviewed

[Click here for a glossary of terms used in the activities.](#)

Virtual Teaching Hub Menu

- [VIRTUAL TEACHING HOME](#)
- [FREQUENTLY ASKED QUESTIONS](#)
- [TUTORIALS](#)
- [MAKE A GIFT](#)

Phonemic Awareness

Phoneme-Grapheme Correspondences

Decoding and Encoding

Irregular and High Frequency Words

Connected Text

Writing




UFLI University of Florida Literacy Institute  
University of Florida Literacy Institute  
PO Box 117050  
University of Florida  
Gainesville, FL 32611-7050

Facebook, YouTube, Twitter, Group icons

# Guidance Available to Select Instructional Resources

Multiple Tools Available to Find the Right Instructional Materials

**Resources Available to Review and Evaluate Quality of Instructional Materials**

COMPLETED REVIEWS AND RUBRIC		RUBRIC ONLY	
Key Benefit of Each Resource			
Foundational Skills Emphasized in Rubric	✓	✓	✓
Individual Grade-Level Review of Materials	✓	✓	✓
Summative Ratings	✓	✓	✓
Actionable "Next Steps" for Educators		✓	✓
Benchmark Assessment Reviews		✓	✓
Commentary from the Publisher	✓		
Detailed, Specific Reviews of Numerous Materials	✓	✓	✓

**REL Southeast Offers a Standards-Agnostic Rubric for Evaluating Reading/Language Arts Instructional Materials**

**Clear Guidance on Review Process**

Offers explicit guidelines for creating a curriculum review team as well as professional development recommendations

**In-Depth Analysis of Foundational Skills**

Provides explicit reviews of each foundational area of reading, as opposed to a broad overview

Source: [EdReports](#); LA Dept. of Education, "[Curricular Resources Annotated Reviews](#)"; REL Southeast, 2017, "[Rubric for Evaluating Reading/Language Arts Instructional Materials for Kindergarten to Grade 5](#)"; EAB interviews and analysis.

# Is Your Curriculum What You Need It to Be?

Start by Evaluating What Your Teachers Are Using Now

*Increase of Teachers' Knowledge of the Science of Reading as Measured by EdReports' Review of Wilson Language Training*  
*Measured by Teachers' Knowledge of the Science of Reading as Measured by Correct Responses on LETRS Test in OH, 2016-17!*

edreports Explore Reports | Our Process | Resources | Impact | About Us | Search

Home > Explore Reports > ELA > Wilson Foundations (2012)

**Fundations®**  
Wilson Language Training  
Grades K-2

**2012 Wilson Foundations**

PUBLISHER  
**Wilson Language Training**

ALIGNMENT (GATEWAY 1 & 2) **Partially Meets Expectations**

SUBJECT GRADES REPORT RELEASE  
**ELA K-2 11/13/2019**

REVIEW TOOL VERSION  
**v1**

KEY AREAS OF INTEREST  
**Foundational Skills** **132/202**  
**Building Knowledge** **NC**

Our Review Process  
Learn more about EdReports' educator-led review process  
**Learn More**

Share Print

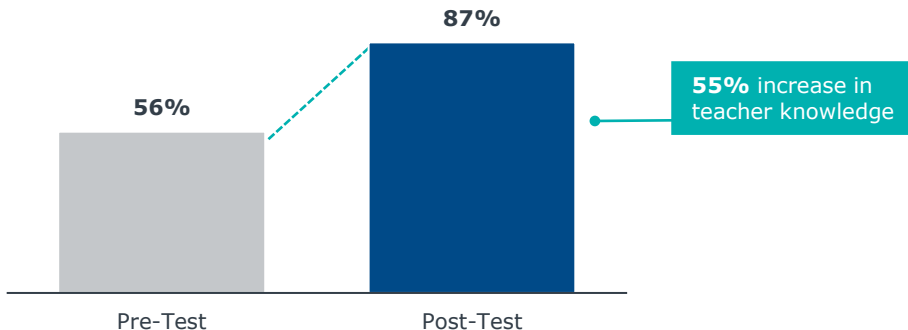
Publisher Response  
Science of Reading

FORMAT  
**Supplemental: Foundational Skills Only**

## LETRS-Trained Teachers Come Out of Training Knowing What to Do

### Increase in Teacher Knowledge of Foundational Reading Skills

*Increase of Teachers' Knowledge of the Science of Reading as Measured by Correct Responses on LETRS Test in OH, 2016-17<sup>1</sup>*



### “Why Didn’t We Learn This Earlier?”

“For our teachers, true learning is occurring, and the light bulb is being turned on. So many of these teachers have said, ‘How were we not taught these skills in college?’”

*Alana Cohen, ELA Curriculum Specialist, Rapides Parish, LA*

1) n = 255; teachers were trained in units 1-4 of LETRS.  
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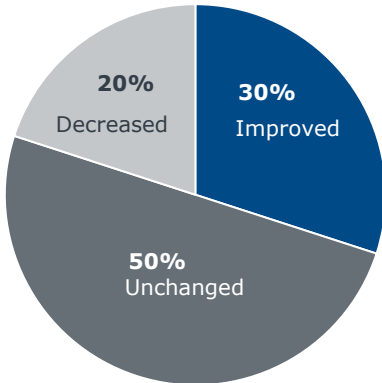
Source: Education Week Webinar. 2018. [Develop Your Teachers Into Literacy Experts](#); Voyager Sopris Learning. 2018. [LETRS: Language Essentials for Teachers of Reading and Spelling, Elementary](#); American Public Media. 2018. [Hard Words: Why aren't kids being taught to read?](#); EAB interviews and analysis.

# One-Off Training is Not Enough

Teachers Struggle to Bring Their Learning into the Classroom

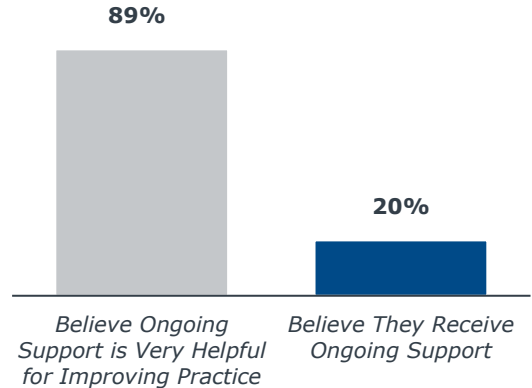
## Inconsistent Translation of Professional Learning to Teacher Practice

*% Breakdown of Teacher Performance Change After Participating in Professional Development<sup>1</sup>*



## Limited Ongoing Implementation Support a Key Barrier

*Discrepancy Between Teachers' Desires for Ongoing Support and Reported Experiences<sup>2</sup>*



1) N=10,000 teachers; TNTP performance quality review was measured using evaluations and observations over a two-to-three year period.

2) N=20,000 teachers.

Source: Gates Foundation, "Primary Sources: America's Teachers on Teaching in an Era of Change"; TNTP, "[Billions of Dollars in Annual Teacher Training is Largely a Waste](#)," 2015; EAB interviews and analysis.



# Narrowing the Third Grade Reading Gap



Embracing the Science of Reading to Ensure All Students Can Read

1

**Develop and Sustain Schoolwide Expertise in the Science of Teaching Reading**



1. Science of Reading Professional Development
2. Instructional Materials Selection Tools
3. Train the Trainer Sustainability Plan
4. Grassroots Pilot Success Models

2

**Hardwire Science-Based Instruction in the Classroom**



5. Principal Literacy Champions
6. Science-Directed Literacy Look-For
7. Video-Based Teacher Observations
8. Literacy Implementation Evaluations

3

**Redesign Small Group Instruction to Target Student Skill Deficits**



9. Skills-Based Grouping
10. Cross-Classroom Intervention Specialists

4

**Mitigate Summer Slide with Engaging Summer Programming**



11. Camp-Style Summer Literacy
12. Online Video Enrollment Campaigns
13. Summer School Attendance Incentives
14. Parent-Facing Literacy Nudges



## Principals Create Building-Level Environment for Literacy Instruction

✔ Set **building-level priorities and focus** year-to-year

✔ Determine **teacher hiring** criteria and make school-level hiring decisions



✔ Help determine **professional development** offerings

✔ Oversee and conduct **teacher observations and evaluations**

## But Principals Have No More Knowledge of Literacy Than Teachers

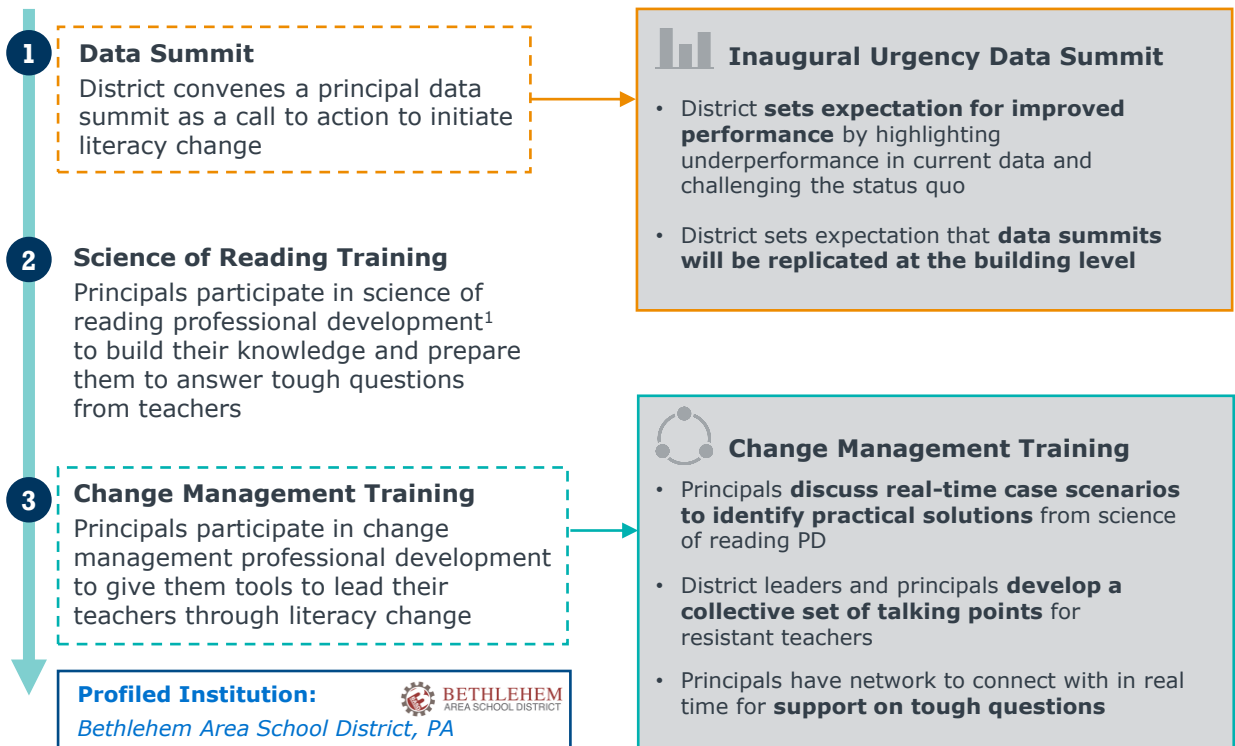
“Principals help to set the foundations for school success, but **we were finding that many of the principals themselves did not have much background in the science of reading...** Some principals shared similar teacher beliefs that some students were unlikely to make much reading improvement by third grade because of non-school factors beyond their control. After all, this is how it’s always been. We had to change our mindset.”

*Jack Silva, CAO  
Bethlehem Area School District*



# Establish a “No Excuses” Leadership Mindset

## Prepare Principals to Be Building-Level Literacy Leaders and Advocates



1) Principals went through LETRS training on units 1, 2, 3, and 7.



# Create Systems to Sustain Literacy Leadership

## Principals Recreate Data Summits at Their Schools

### 4 School-Level Data Summit

Convene data summits for teachers to analyze data to catalyze a mentality of change

### 5 Science of Reading Training for Teachers

Select initial cohort of teachers for LETRS training and create roll out plan for subsequent grades

### 6 Bi-Monthly Data Meetings

Lead bi-monthly data summits with teachers to review DIBELS results and instructional needs for students



Repeat steps 1-3 for principals and 4-6 for buildings on a yearly basis to maintain focus on literacy.

## Principals Engage in Continued Cross-District Collaboration



### Establish Collaborative Online Platforms for Principals

- Create a password-protected online document sharing system using a free or inexpensive platform (e.g., Google Docs)
- Principals share resources, talking points, and regularly collaborate with each other



### Quarterly Meeting Between District and School Leaders

- Elementary principals meet on a quarterly basis to analyze school and student data
- Principals share best practice strategies from their schools



# Principals Become Informed Reading Advocates

## Principals Know What Works and Make More Effective Reading Decisions

### Principal Knowledge and Decision Making Improves

40% → 95%

Increase in principals who believed that all kids could read when provided science-based instruction

85%

Of principals report greater clarity around what it takes to improve reading outcomes

80%

Of principals report making at least one change in their decisions to better support literacy

### Principals Adjust Practice to Promote the Science of Reading



Principals incorporate **new hiring questions** about prospective teachers' level of comfort with change in addition to literacy knowledge



Principals provide more targeted and **informed guidance and feedback** on literacy instruction



“Rather than saying a student ‘needs more reading support’ in a generic way, **school staff can now discuss the skill needs of struggling readers**. They can figure out whether a student’s poor performance is linked to needing help with speech sounds or with matching the letters with the speech sounds.”

Jack Silva, CAO  
Bethlehem Area School District

# Give Teachers Clear Guidance on Classroom Practice

## “Look-For” Planning and Observation Document Defines Quality Instruction

Lesson Component	What I Should and Shouldn't See and Hear
<p data-bbox="38 277 248 526"> <b>2</b> Includes <b>suggested time allocation for each skill</b> component of the lesson         </p> <p data-bbox="262 260 525 322">Phoneme-Grapheme Mapping</p> <p data-bbox="262 358 456 384"><b>5 – 10 minutes</b></p> <p data-bbox="262 427 344 453"><b>Notes</b></p> <p data-bbox="262 477 515 767"> <i>Make sure students are tapping each sound and writing the corresponding letter. Give corrective feedback, as needed.</i> </p>	<p data-bbox="546 254 758 280"> <b>✓ Should See...</b> </p> <ul data-bbox="605 291 1033 379" style="list-style-type: none"> <li><input type="checkbox"/> Teacher using a predetermined word list including only spelling patterns previously taught</li> </ul> <p data-bbox="546 384 776 420"> <b>✓ Should Hear...</b> </p> <ul data-bbox="605 441 1101 560" style="list-style-type: none"> <li><input type="checkbox"/> Teacher reviewing sound-symbol correspondence before or after the mapping routine, saying “Remember these letters make this sound.”</li> </ul>
	<p data-bbox="550 612 793 638"> <b>✗ Shouldn't See...</b> </p> <ul data-bbox="605 658 1016 803" style="list-style-type: none"> <li><input type="checkbox"/> Students looking at a printed copy of the whole word</li> <li><input type="checkbox"/> Students mapping words with spelling patterns they haven't yet been taught</li> </ul>

**1**

Describes **exactly what should be seen and heard** in a scientifically-based reading lesson

**3**

Provides explicit **guidance on common practices that are NOT aligned to the science of reading**

**Profiled Institution:**  
Cedar Rapids Community School District, IA



“Look-For” document available in the [Science of Reading Implementation Guide](#).

# Non-Specific Data Often Drives Student Grouping

## Many Teachers Group Students Using Imprecise Universal Screener Data



Universal screeners or CBMs<sup>1</sup> are commonly used to group students with similar average benchmark scores or reading levels, even though **this data does not provide insight on the precise nature of students' reading needs**



90%

Of teachers **maintain generic reading groups**, without diagnosing the precise reasons behind students' reading levels

### Examples of Non-Specific Grouping Categories

- ✓ *Red, Yellow, Green, Blue*
- ✓ *Above Benchmark vs Below Benchmark*
- ✓ *Advanced vs Struggling*
- ✓ *Level A, B, and C Groups*

**Common Screeners or CBMs:** AIMS Web, DIBELS, STAAR, Texas Primary Reading Inventory, DRA

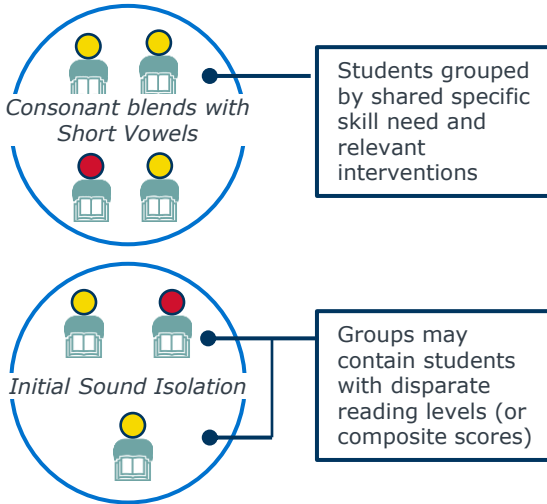
1) Curriculum Based Measurements

Source: Sparks, S. (2018) "[Are Classroom Reading Groups the Best Way to Teach Reading? Maybe Not,](#)" Education Week; Hall, S (2006) "I've Dibel'd, Now What?"; EAB interviews and analysis.

# Skills-Based Grouping Refocuses Intensive Instruction <sup>40</sup>

Use Diagnostics to Group Students By Similar Skill Needs, Not Reading Levels

## Sample Kindergarten Skills-Based Intervention Groups



### Profiled Institutions:

*Grant County Schools, WV*

*Farmington Municipal Schools, NM*



## Diagnostics Provide Deep Data Needed to Group and Monitor Student Skills

*Sample Skills-Based Grouping Process*

1

### Employ Universal Screener (or CBM)

Which students are struggling readers? And what are their high-level skill needs (i.e., phonics)?

2

### Assess Using Diagnostic

Why are they struggling? What are their sub-skill needs?

3

### Organize Student Groups By Skills

Which groups of students have need similar skill-based interventions?

4

### Match Intervention To Skill Need

Which targeted instruction will best address their skill deficiencies?

5

### Monitor Progress of Particular Skill Using Diagnostic

Does the student demonstrate at least 80% mastery of the specific skill after three weeks?

- If yes, assess student on next skill
- If no, consider adjusting intervention



# Provide Teachers with the Data Know-How

## Support Teachers in Using Assessment Data for Skills-Based Implementation


### Invest in Diagnostics and Train Teachers in Distinguishing and Using Assessments

#### *Distinction Between Screeners and Diagnostics*

Universal Screener (CBM)	Diagnostic
<p><b>Sample: DIBELS</b></p> <ul style="list-style-type: none"> <li>Identifies <i>who</i> is not reaching benchmark</li> <li>Norm reference measures or predictive measures of future reading ability</li> <li>Provides insight into high-level skill need (i.e., phonemic awareness)</li> </ul>	<p><b>Sample: DIBELS DEEP</b></p> <ul style="list-style-type: none"> <li>Identifies <i>why</i> students are struggling</li> <li>Criterion referenced around one skill area at a time</li> <li>Provides insight into sub-skill needs (i.e., 25 subskills within phonemic awareness)</li> </ul>



**Provide Ongoing Opportunities for Teachers to Refine Data Analysis Skills**



Assign a master teacher or intervention specialist to host data collaboration hours at least every two weeks so teachers can troubleshoot challenges

Both are helpful, but diagnostics give specific details about underlying skill needs and progress

# Help Teachers Match Interventions to Skill Needs

Prescriptive Intervention Chart Guides Teachers in Providing Right Supports

## Know the Problem to Determine the Right Treatment

Sample Intervention Guideline Chart



### 1 Literacy Focus      2 Diagnostic      3 Corresponding Resource

*If a student presents challenges with...*

#### **Orthography:**

Letter Identification

*Then use the following diagnostic...*

DIBELS Letter Identification

*Use the following program to target interventions...*

Handwriting Without Tears

#### **Fluency:**

Reading Pace

Oral Fluency- % of Words Read Correctly

Read Naturally

#### **Comprehension:**

Context Clues

Retell Fluency

Visualizing and Verbalizing

Include "If/Then" statements to clarify action steps

Offer resource suggestions for each skill need



## Recommendations for Maximizing Utility



Laminate chart for long-term durability



Limit chart to one page for easier access and classroom visibility



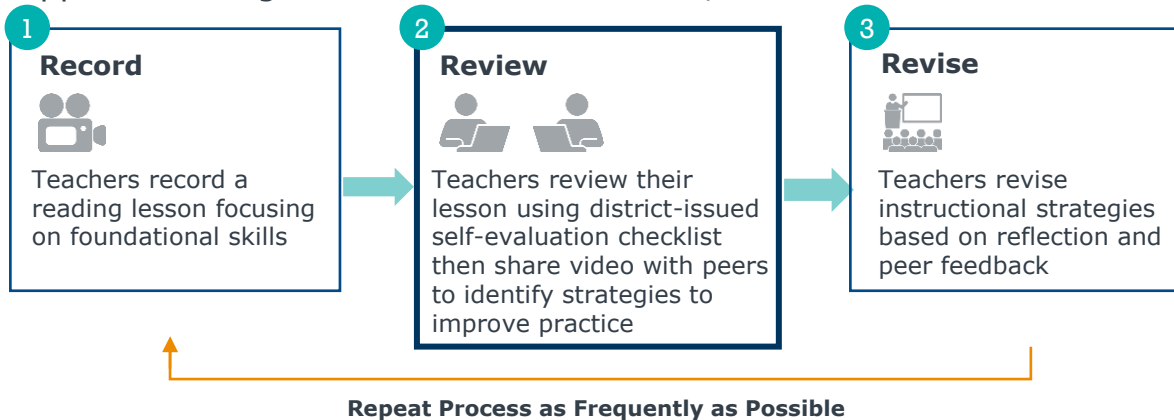
Disseminate during PD and at the end of school year to ensure appropriate identification of students for summer program



Hold teachers accountable for adherence to the prescribed process

# Expand Opportunities for Ongoing Support

Support Teaching Excellence with Sustained, Actionable Feedback



## Three-Step Review Process



### Self-Evaluation

*Following prescribed instructional checklist, teachers self-review their lessons on video*



### Peer-to-Peer Discussions

*Teachers then use checklist to observe a colleague's video and provide feedback accordingly*







### Exemplary Modeling

*Highest quality videos are used as models and presented in professional learning communities*

# Guidance Needed to Ensure Meaningful Reflection

## Self-Evaluation Checklists Help Teachers Identify Room for Growth

	<b>Phonological Awareness</b>		<ul style="list-style-type: none"> <li>Organize checklist according to <b>foundational components of literacy instruction</b></li> </ul> 
	Did I <b>clearly state the learning target</b> ?	✓	
	Did I <b>provide scaffolds</b> ? (e.g., chips, tiles, tapping)	✓	
	<b>Model:</b> Did I provide the "I do" (my voice only)	✓	
	<b>Guided Practice:</b> Did I include the "we do" (my voice with students)		<ul style="list-style-type: none"> <li>Use checklist as opportunity to <b>remind teachers of critical pedagogical processes</b></li> </ul> 
	<b>Independent Practice:</b> Did I include the "you do" (students choral and/or individual response)	✓	
	Did I <b>use a signal</b> ? (i.e., verbal or non-verbal cue)		
	Did I <b>complete this component in 2 minutes or less</b> ?	✓	<ul style="list-style-type: none"> <li>Provide <b>concrete metrics</b> to assist in timing and pacing of lessons</li> </ul> 
	Did I <b>review the learning target</b> for phonological awareness?		
	<b>Phonological Awareness Total:</b>	<b>5/8</b>	<ul style="list-style-type: none"> <li>Include opportunity for teachers to <b>self-grade lessons</b> in a non-punitive way</li> </ul> 



Access the complete set of checklists in the [Science of Reading Implementation Guide](#).

# What Gets Evaluated, Gets Implemented

## Identify District Literacy Priorities and Essential Teacher Behaviors...

*Suggested Sub-Criteria To Hold Teachers Accountable to Apply Literacy Theory*

### Focus on Science-Based Practices

- ✔ Lesson plans include direct instruction of foundational skills
- ✔ Reading block time is allocated according to research

### Utilize a Variety of Assessment Methods

- ✔ Weekly phonics assessments are used to monitor student acquisition of skills
- ✔ Deeper diagnostics assess struggling readers' progress on a regular basis

### Profiled Institution:

*Norton Public Schools  
Norton, MA*



Norton Public Schools

## ...And Insert Them Into Existing Evaluation Criteria

*Evaluation Criteria Selected as Best Aligned with Literacy Goals*

- 1 Well-structured lessons and units**
- 2 Adjustments to practice
- 3 Variety of assessment methods**
- 4 Meeting students' diverse needs
- 5 High student expectations
- 6 Family engagement, parental communication
- 7 Professional judgment

# The Anatomy of a Collaborative: EAB's Unique Formula for Supporting Successful Implementation

## Four Essential Elements of Every Implementation Collaborative



### Guided Planning Workshops

EAB experts provide step-by-step guidance for each phase of implementation and protected time to make key decisions



### Implementation Resources

EAB creates every resource you need – including agendas and communications – to make leading change possible for your team



### Weekly Office Hours

Sustain your momentum by working with EAB experts to navigate concerns and roadblocks as they arise



### A Community of Peers

Learn and lead alongside a cohort of peers, all working to make progress together

## What We Hear From Partners

*"Working through a process rooted in research gave my team clarity and confidence through understanding the "why" behind our actions."*

~ Superintendent, Michigan

*"EAB's resources were amazing. There's no way we could have done all of this alone."*

~ Assistant Superintendent, Missouri

*"One week we found ourselves with 100 questions from staff and scrambling for answers. Olivia helped us to slow down, craft efficient responses, and communicate with confidence."*

~ Chief Academic Officer, Virginia

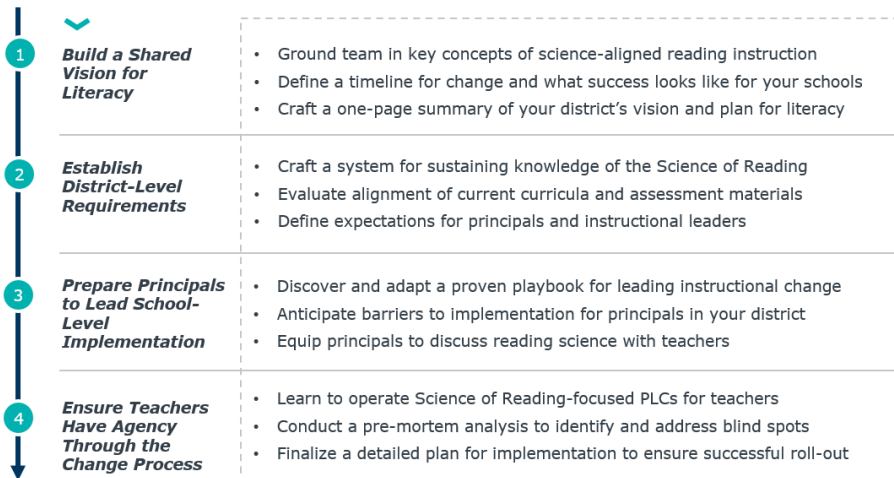
*"Learning alongside other others is crucial for school leaders. It's impossible – and unhelpful – for us to try and solve today's challenges alone."*

~ Superintendent, Texas

**Choose the Path That's Right For Your Team:** Each collaborative can also be run for individual districts. Limited availability.

# Implementation Collaborative: Achieving Alignment with the Science of Reading

## A Proven Playbook for Science-Based Reading Instruction in Schools



Thirty-two states and the District of Columbia have now passed laws or implemented new policies to promote evidence-based reading instruction.

Professional development for teachers is a crucial first step, but **research has shown that many districts are struggling to turn theory into practice.**

This three-month course equips district leaders with a proven playbook for implementing and sustaining science-based reading instruction in schools.



**Reserve your seats for our 2024 Leading for Literacy Collaborative:**

*Launches July 2024*

▶ Build a plan for aligning instruction with reading science that can be scaled and sustained across the district



# Case Study: Improving Early Literacy Performance

How Republic School District Went from Good to Great



Republic  
School District

Republic School (MO) District enrolls 5,000+ students and has five elementary schools

## OPPORTUNITY



Republic's 3<sup>rd</sup> grade reading scores were among the highest in the state, but the **district was looking to do even better**

## SOLUTION



**Partnering with EAB**, Republic rolled out a phonemic-awareness curriculum with kindergarten teachers in 2020, expanding it to 1<sup>st</sup>- and 2<sup>nd</sup>-grade teachers in 2021

## IMPACT



Republic achieved **across the board increases in early literacy scores** even as districts statewide saw performance decline.



EAB's research provided scientific insights on how students learn to read and what evidence-based instruction looks like. It helped our teachers find common cause around the challenges of teaching all students to read

Alyssa Phillips, Literacy Specialist  
Republic School District



## KEY RESULTS

16%

increase in kindergartener scores for rhyme production and recognition, Fall 2020 to Spring 2021

7.7%

increase in kindergartener scores for blending spoken phenomes, Fall 2020 to Spring 2021

5.7%

percentage increase of 3<sup>rd</sup> graders scoring proficient and above in reading, 2019-2022



# How Else Can We Help?



I'd like to speak with someone further to...

- 1 Learn how to reserve seats for the upcoming *Leading for Literacy* Collaborative cohort
- 2 Explore EAB's other areas of strategic initiative support for district leadership teams
- 3 Something else? Choose this option and we will follow up with you

# A Quick Ask



We value your feedback.

---

Please take a few minutes to **complete the short survey** in your web browser.

Thank you!