Addressing America's Literacy Crisis Through Evidence-Based Action

Case Study of California's
New Literacy Plan
With Gary D. Soto





Introducing...



Dr. Eva DundasChief Product Officer,
Branching Minds



Gary D. Soto
Instructional
Leadership Coach



Let's get to know you.



In the chat, answer the following:

What district and state are you associated with?

What is your role within your district?

Rough estimate: What percentage of students in your school (or district) require reading intervention?



Agenda



Current National Literacy Crisis and Need for Action



Addressing Literacy Crisis: California Case Study



Science of Reading and the Need for Clear Instructional Guidance



Q&A



It's 'Alarming': Children Are Severely Behind in Reading

The fallout from the pandemic is just being felt. "We're in new territory," educators say.



The Scope of the

The Coming Literacy Crisis: There's No Going Back to School as We Knew It

By Comer Yates, Renée Boynton-Jarrett & Maryanne Wolf — March 23, 2021 () 4 min read

In Virginia, <u>one study found</u> that early reading skills were at a 20-year low this fall, which the researchers described as "alarming."

In the Boston region, 60 percent of students at some high-poverty schools have been identified as at high risk for reading problems — twice the number of students as before the pandemic, according to Tiffany P. Hogan, director of the Speech and Language Literacy Lab at the MGH Institute of Health Professions in Boston.

graders read and write at a proficier level. The statistics for low-income students, students of color, and students with disabilities are even more alarming.



Status Check

1 in 3 students in K-3 require reading intervention

Source: Amplify Data, 2022

Black and Latino students are further behind White peers in reading.



Source: iReady Data, Fall 2021

Grades 1-8
declined in
reading, with
the highest
declines in 2nd
and 3rd grade

Source: iReady Data, Fall 2021





Case Study: The California Literacy Plan

California's Literacy Plan

March 2021 - California Department of Education was awarded \$37.5 million to create a system of literacy supports

Purpose of the Plan:

Align and Integrate state literacy initiatives, content standards, state guidance documents to support PreK-12 teachers





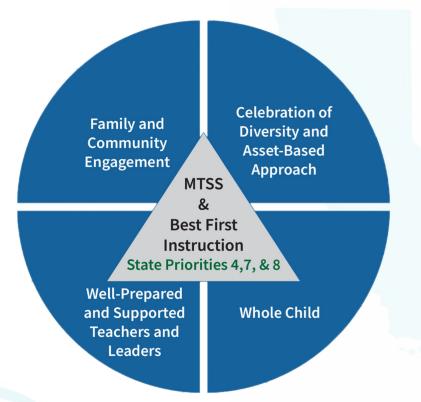
California's Literacy Plan: Breakdown

MTSS and First Instruction:

Strengthening Tier 1 with standards-aligned, differentiated, culturally/linguistically responsive teaching

Additional Focus:

Asset-Based Pedagogies Access and Equity



The Problem: Lack of New Guidance on Literacy Instruction

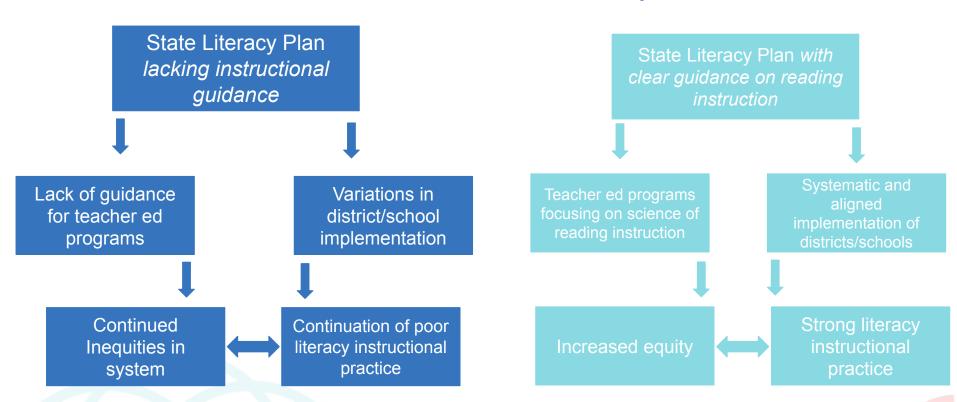
This plan stays away from prescribing a "single approach" to literacy instruction

- Science of Reading backed by research
- Whole Language proven unsuccessful
- Balanced Literacy proven unsuccessful





A Continual Problem: Lack of Guidance in Literacy Plans



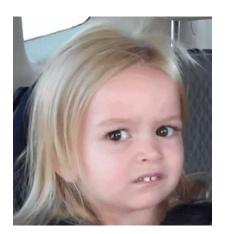


Poll: How do you feel when someone brings up "the science of reading"?



Α

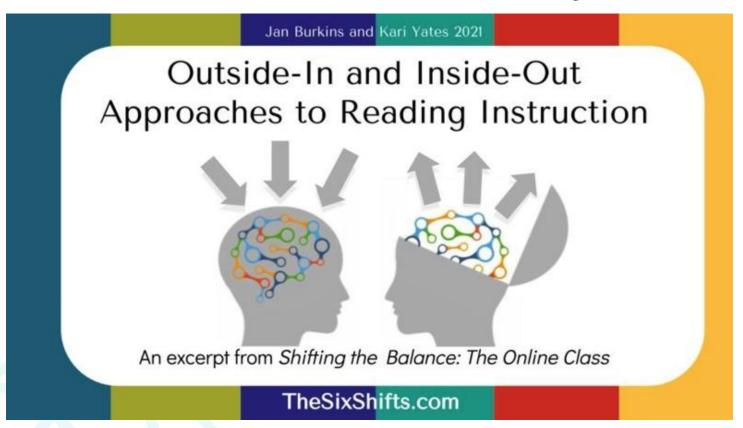






E

Outside-In and Inside-Out Model of Science of Reading





Interactive Specialization of the Interior Temporal Cortex: The developmental of visual word processing

Eva Dundas Doctoral Candidate Department of Psychology Carnegie Mellon University



Science of Reading Basic Principles

- Reading is not natural and learning how to read requires a dramatic reorganization of the brain
- 2. Brain cells that "fire" together, "wire" together
- 3. The hardest part of "wiring" the reading brain, is to connect language sounds with their visual representation
- 4. Building that bridge between sound (phonemes) and vision (graphemes) is the foundation of reading skills that enables reading comprehension

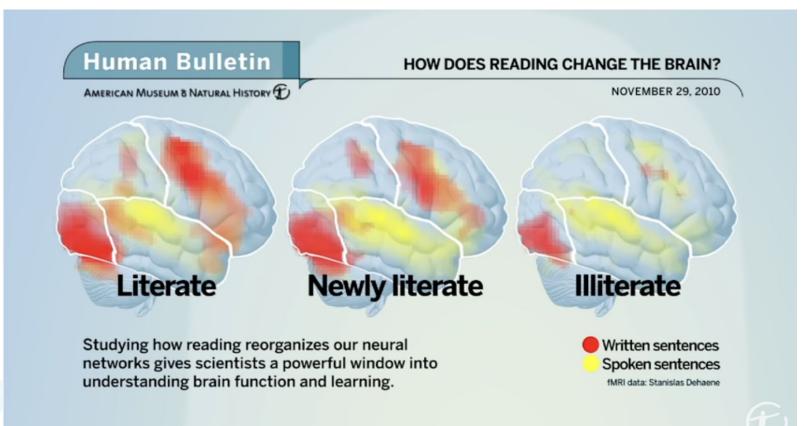


Brain changes in readers

- Brain imaging allows us to see changes in brain function (patterns of activity) and brain structure (size of brain regions and connections)
- 2. We can examine reading related changes several ways:
 - a. Compare literate and non-literate adults
 - b. Examine children over learning how to read
 - c. Compare typical readers with those with reading disorders
 - d. Correlate brain changes with reading performance



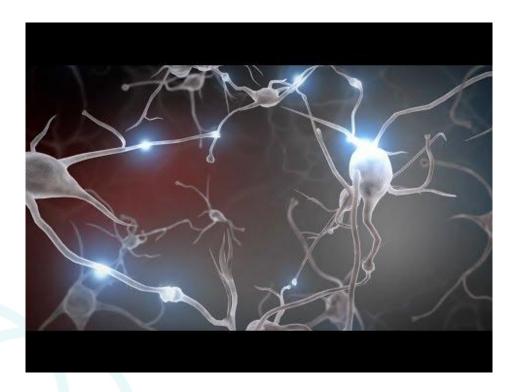
Brain changes in readers





How do we change our brain?

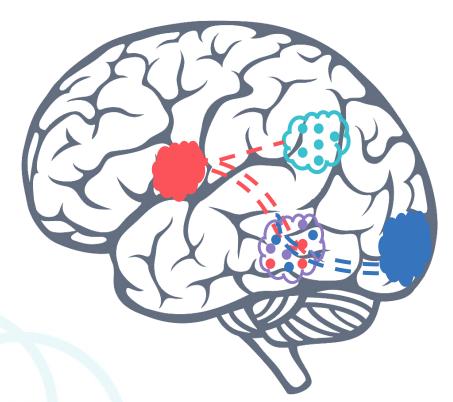
Cells that "fire" together, "wire" together



Click here https://youtu.be/V NNsN9IJkws?t=29

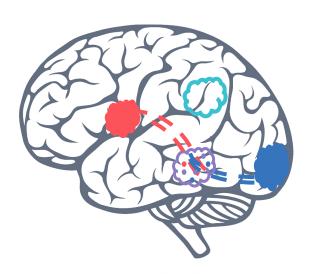
What's difficult about the "wiring" needed for reading?

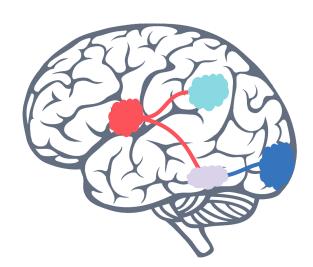
We're making a connection between two sensory regions

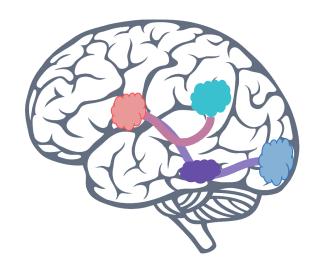


How do we "wire" the sensory regions needed for reading?

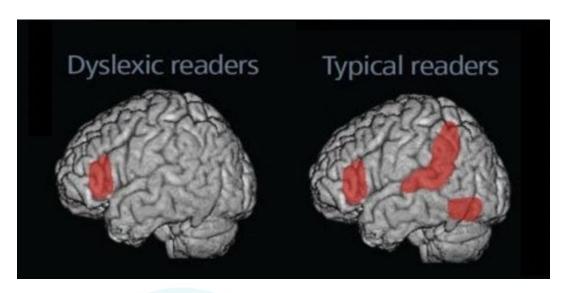
Sounds and letters need to "fire" together

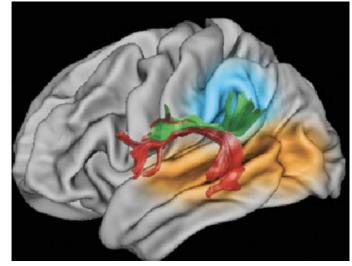






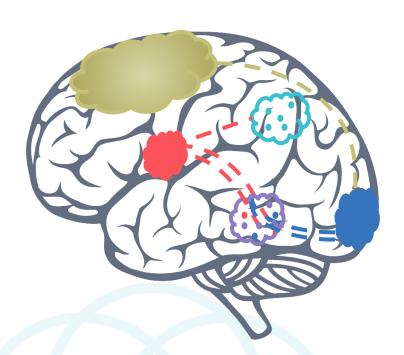
Individual differences can influence how difficult the networks are to build

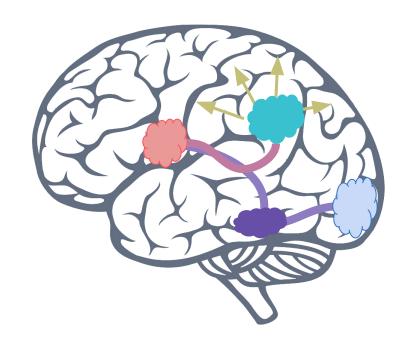




The sensory area connection provides the foundation for reading

How does phoneme-grapheme pathway ladder up to comprehension?





Whole Language

Balanced Literacy

Structured Literacy

Teaches reading through word study, without explicitly teaching phonics or decoding

Uses the "3 cueing system"

- Semantics
- Syntax
- Graphophonic cues

Utilizes the same 3 cueing system as Whole Language with the addition of phonics instruction

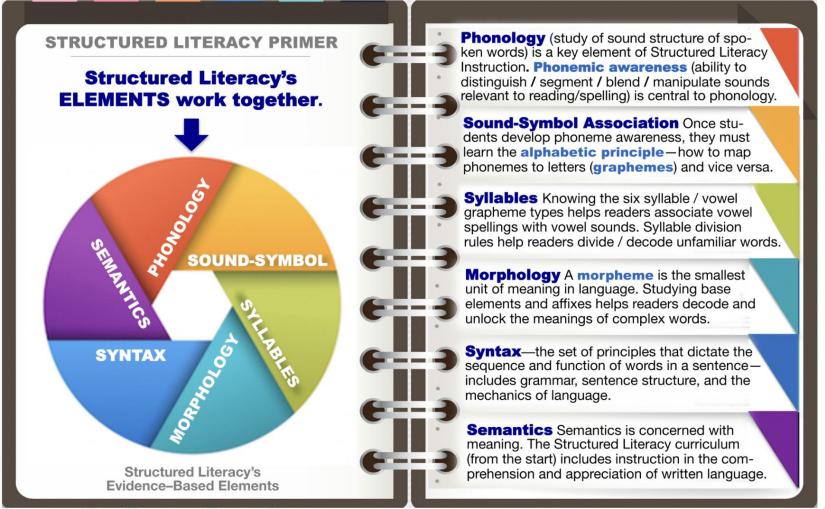
Students use leveled readers for independent reading practice

Teaches reading guided by the evidence and research of the Science of Reading

Directly teaches decoding skills and comprehension strategies through:

- Explicit and systematic instruction
- Skill building
- Data collection





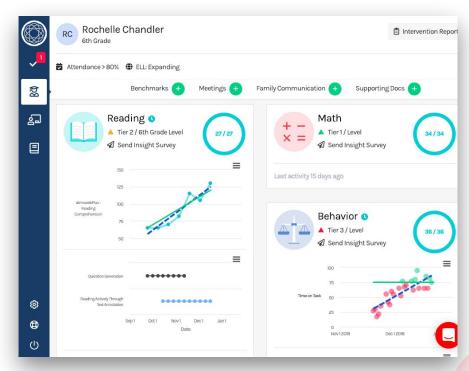
What does this mean for literacy instruction?

- Build the phoneme-grapheme bridge first structured literacy instruction is a critical foundation for efficient and effective reading for ALL students
- 2. **Most** children will learn how to read with balanced literacy and whole language programs **under ideal conditions** but they are reinforcing the wrong brain networks which disproportionately affects students with disabilities and those not receiving additional reading time outside of the classroom.

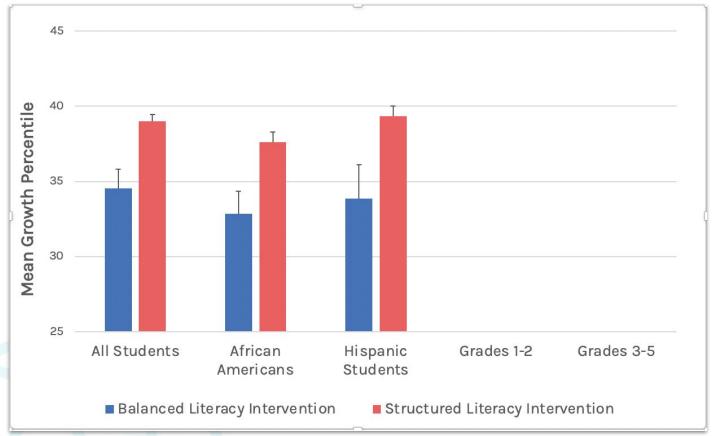
Branching Minds Web Application

Streamline and scaffold MTSS practice

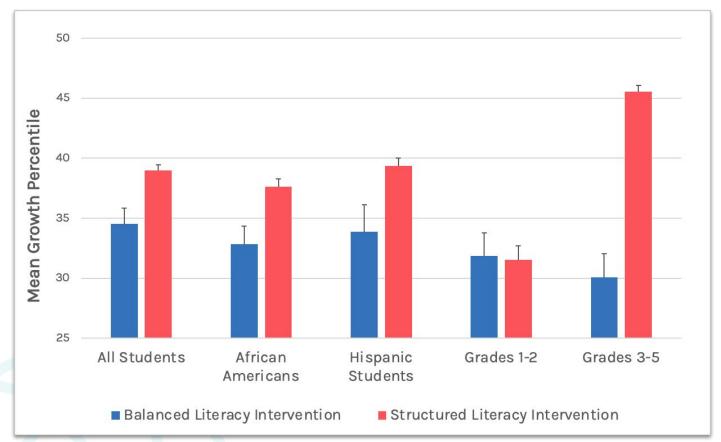
- Ingest assessment data
- Use data to ID who needs support
- ☐ Find evidence-based interventions
- Create academic/behavior/sel plans guided by best practices
- Monitor implementation and progress
- Streamline communication across colleagues and families



Data on program efficacy we see on Branching Minds



Data on program efficacy we see on Branching Minds



Compounding effects of poor reading architecture



How do these programs affect MTSS structures and systems?

Structured literacy







Balanced literacy







1st Grade

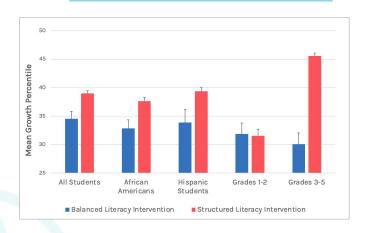
2nd Grade

Final Note: How does this impact our California case study?



1 in 3 students inK-3 need readingintervention

Data shows Structured
Literacy to have a greater
impact than Balanced
Literacy





State, district, school
literacy plans need
evidence-based
instructional guidance to
address our literacy
crisis.



A&Q



Join us for our next webinar Wednesday, April 13, 1:00 PM

Best Practices for Using SEL Data in MTSS

REGISTER: bit.ly/SEL-Data



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