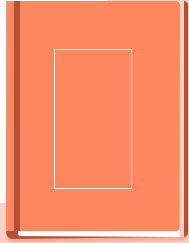


# Using Data and Science of Reading to Improve K-5 Literacy Instruction

Kristie Edwards – *Randle Highlands Elementary*  
Jasmine Rogers – *Garfield Elementary*



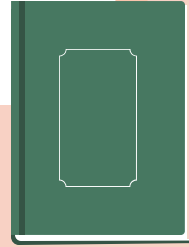
# Agenda



01

## Introduction

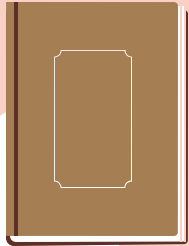
Speakers  
Grounding in Equity



02

## Garfield

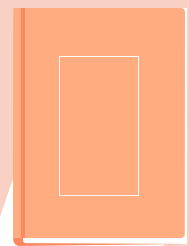
Journey to Structured  
Literacy



03

## Randle Highlands

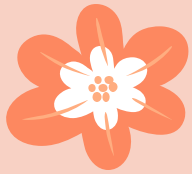
Data based



04

## Q & A





# Jasmine Rogers

Reading Specialist–Garfield Elementary






# Kristie Edwards

Principal- Randle Highlands Element  
School.

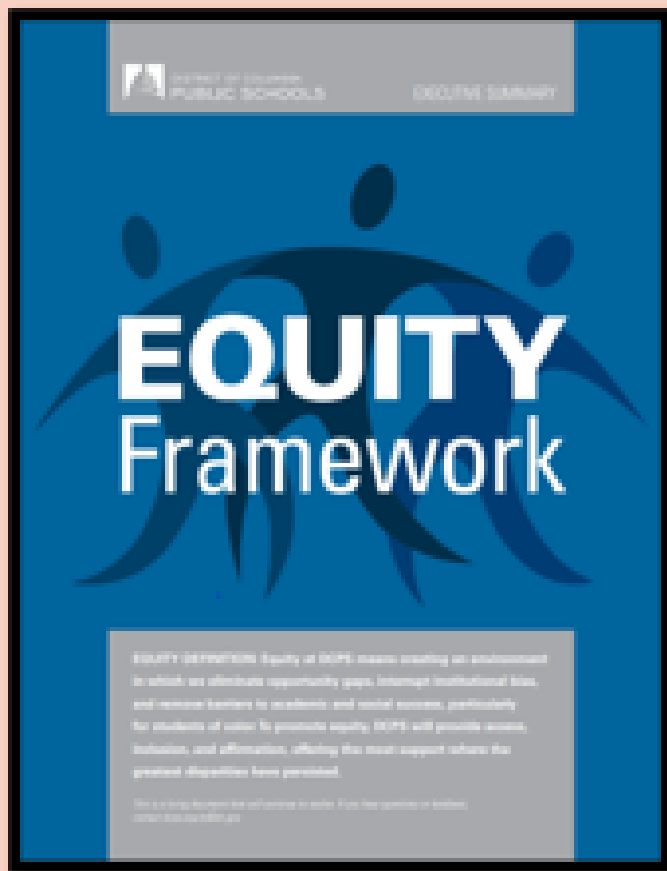


The background is a solid light orange color. It is decorated with several stylized elements: a green leaf in the top left, a small orange flower with a white center in the top right, a larger orange leaf in the top right corner, a green leaf in the bottom right, and a cluster of orange ginkgo leaves at the bottom center. In the bottom left corner, there is a stylized illustration of an open book with orange covers and white pages. Small white four-pointed stars are scattered throughout the background.

# Equity

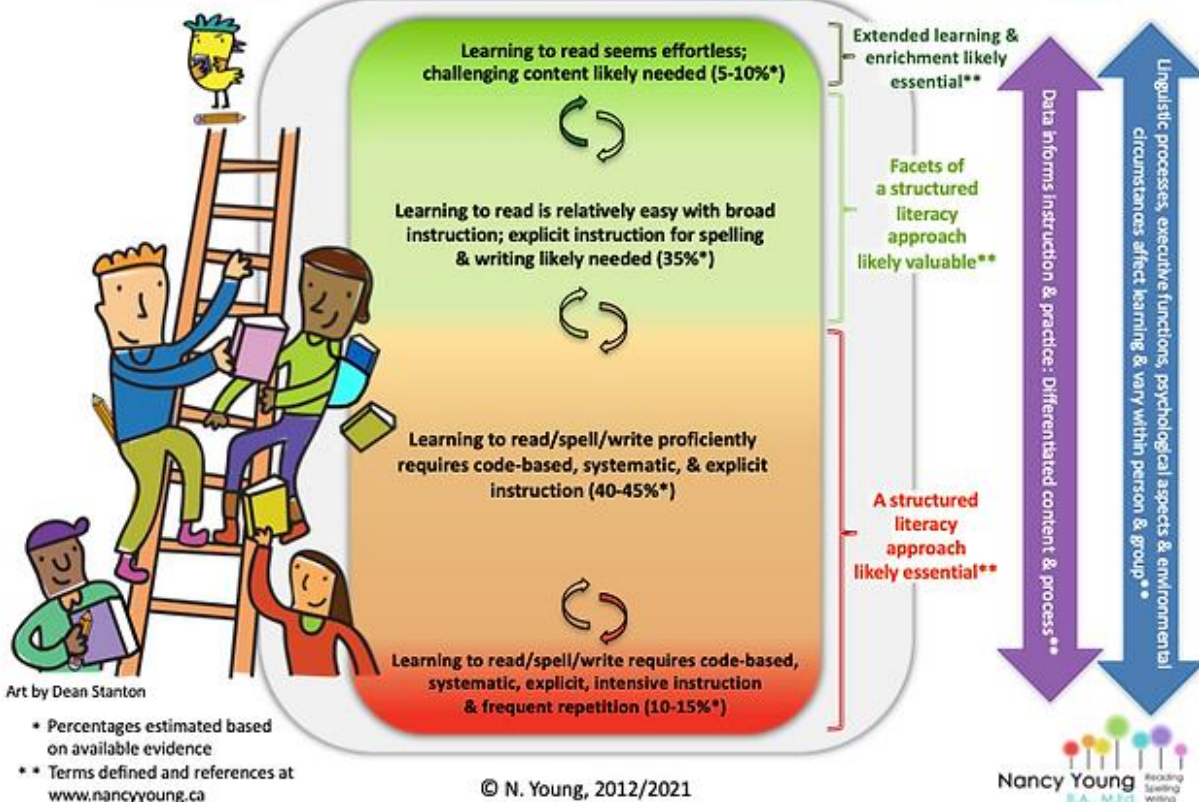
What is Equity?

What does it have to do with reading?



Equity at DCPS means **creating an environment in which we eliminate opportunity gaps, interrupt institutional bias, and remove barriers to academic and social success, particularly for students of color**

# The Ladder of Reading & Writing



\* Percentages estimated based on available evidence  
 \*\* Terms defined and references at [www.nancyyoung.ca](http://www.nancyyoung.ca)

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[www.nancyyoung.ca](http://www.nancyyoung.ca)





## Transitioning from Guided Reading to Structured Literacy



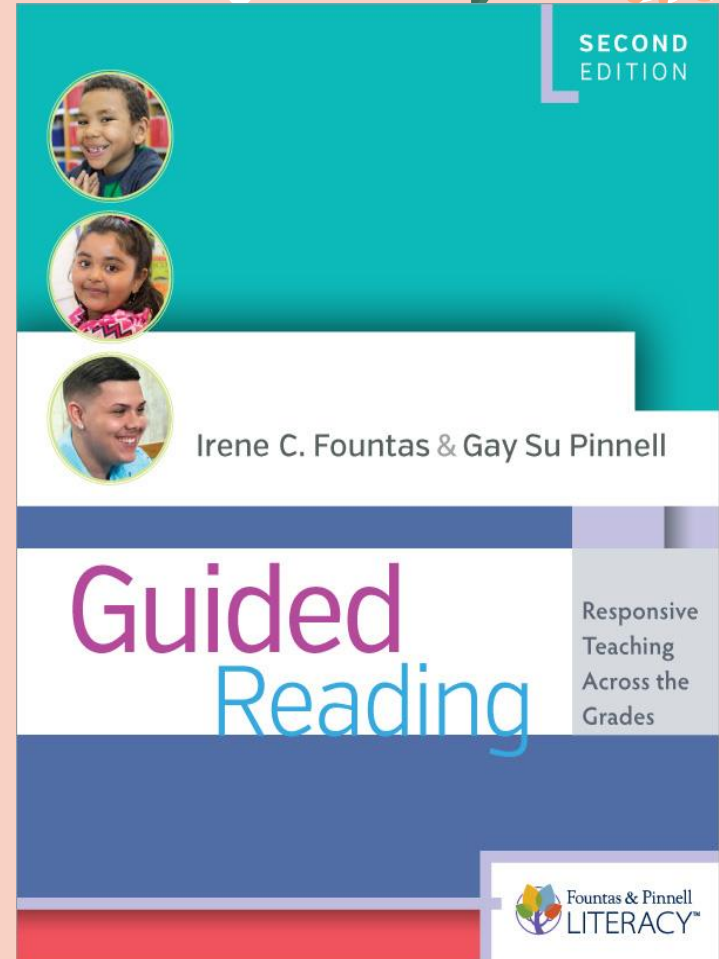
# Out with the Old

Focused on:

- Data: Text Reading Comprehension (TRC) more than DIBELS.
- Instruction: Utilized 3 Cueing System

Taught students weak reading skills focused on pictures and context: Does that look right? Does that sound right? Does that make sense? (MSV)

- Materials: The program was found not to utilized evidence-based or research-based practices ([edreports.org](http://edreports.org))



# IN WITH THE TRUE



<https://dyslexiaida.org/what-is-structured-literacy/>

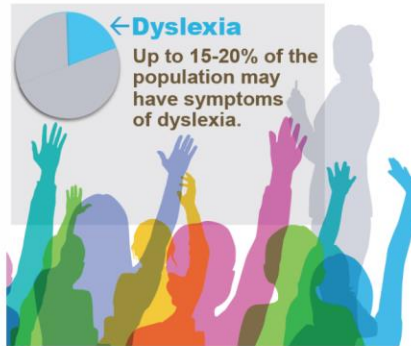
Structured Literacy instruction is the umbrella term used by the International Dyslexia Association (IDA) to unify and encompass evidence-based programs and approaches that are aligned to the Knowledge and Practice Standards (KPS; Cowen, 2016). IDA defines KPS as “the knowledge and skills that all teachers of reading should possess to teach all students to read proficiently.” Structured Literacy approaches are effective at helping students with learning disabilities in the area of reading, such as dyslexia, learn to read and write (Spear-Swerling, 2019). Put simply, Structured Literacy is explicit, systematic teaching that focuses on phonological awareness, word recognition, phonics and decoding, spelling, and syntax at the sentence and paragraph levels. (<https://iowareadingresearch.org/blog/structured-and-balanced-literacy/>)

# WHY?

## STRUCTURED LITERACY PRIMER

### Why Structured Literacy?

Children with dyslexia are in nearly every classroom—but effective reading instruction is NOT.



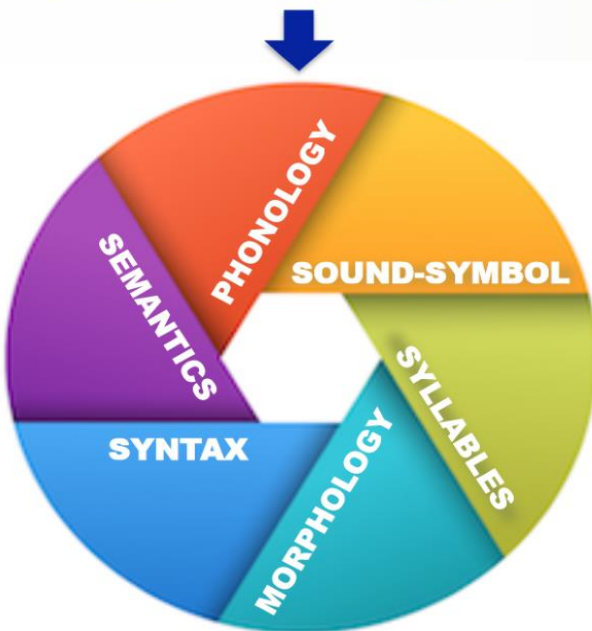
Learning to read can be a significant **challenge** for students with dyslexia. Fortunately, this challenge usually CAN be overcome with effective reading instruction. Unfortunately, if not overcome, lifelong consequences can be harsh.

Popular reading approaches (e.g., Guided Reading or Balanced Literacy) are not effective for students with dyslexia because these approaches do not focus on the **decoding** skills struggling readers need to succeed.

**Structured Literacy** explicitly teaches systematic word-identification/decoding strategies. These benefit most students and are *vital* for those with dyslexia.

## STRUCTURED LITERACY PRIMER

**Structured Literacy's  
ELEMENTS work together.**



Structured Literacy's  
Evidence-Based Elements

**Phonology** (study of sound structure of spoken words) is a key element of Structured Literacy Instruction. **Phonemic awareness** (ability to distinguish / segment / blend / manipulate sounds relevant to reading/spelling) is central to phonology.

**Sound-Symbol Association** Once students develop phoneme awareness, they must learn the **alphabetic principle**—how to map phonemes to letters (**graphemes**) and vice versa.

**Syllables** Knowing the six syllable / vowel grapheme types helps readers associate vowel spellings with vowel sounds. Syllable division rules help readers divide / decode unfamiliar words.

**Morphology** A **morpheme** is the smallest unit of meaning in language. Studying base elements and affixes helps readers decode and unlock the meanings of complex words.

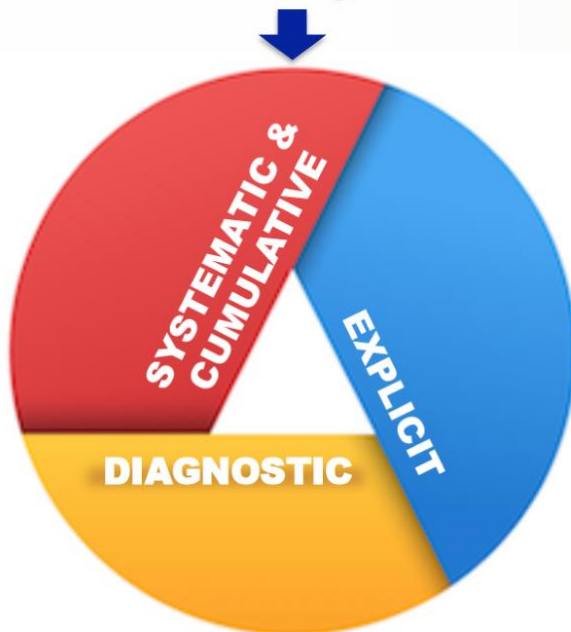
**Syntax**—the set of principles that dictate the sequence and function of words in a sentence—includes grammar, sentence structure, and the mechanics of language.

**Semantics** Semantics is concerned with meaning. The Structured Literacy curriculum (from the start) includes instruction in the comprehension and appreciation of written language.



## STRUCTURED LITERACY PRIMER

**These PRINCIPLES guide how Structured Literacy's elements are taught.**



Structured Literacy's  
Evidence-Based Teaching Principles

### **Systematic & Cumulative**

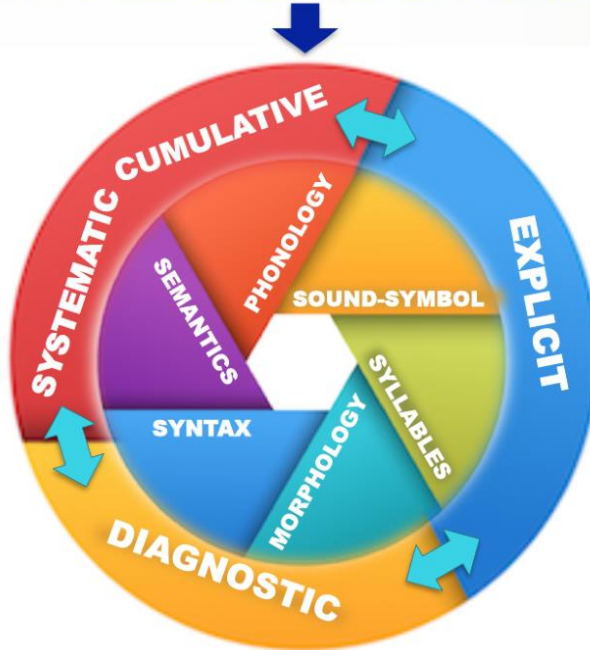
Structured Literacy teaching is systematic and cumulative. **Systematic** means that organization of material follows the logical order of language. The sequence begins with the easiest and most basic concepts and elements and progresses methodically to the more difficult. **Cumulative** means each step is based on concepts previously learned.

**Explicit** Structured Literacy instruction requires direct teaching of concepts with continuous student-teacher interaction and does not assume students deduce concepts. (While **multisensory teaching** lacks the extensive research that validates Structured Literacy's other teaching principles, decades of clinical results support efficacy of simultaneous association of auditory, visual, kinesthetic-motor modalities for enhancing memory and learning in students with dyslexia.)

**Diagnostic** Teachers must be adept at individualizing instruction (even within groups) based on careful and continuous assessment, both informal (e.g., observation) and formal (e.g., with standardized measures). Content must be mastered to the degree of automaticity needed to free attention and cognitive resources for comprehension and oral/written expression.

## STRUCTURED LITERACY PRIMER

**Effective reading instruction for most children incorporates *all* this.**



**Inner Circle:** Elements  
**Outer Circle:** Teaching Principles

To ensure that *all* children have access to effective reading instruction, we must ensure that their teachers have **BOTH** the ...

- ✓ deep content knowledge and
- ✓ specific teaching expertise needed ...

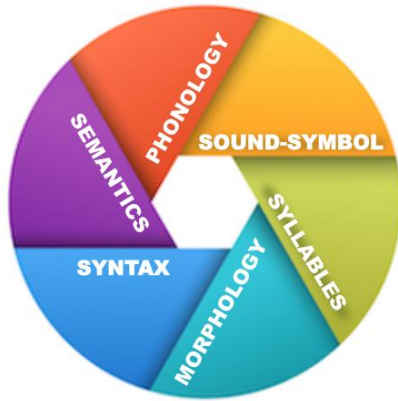


to teach these **elements** according to these **principles**.

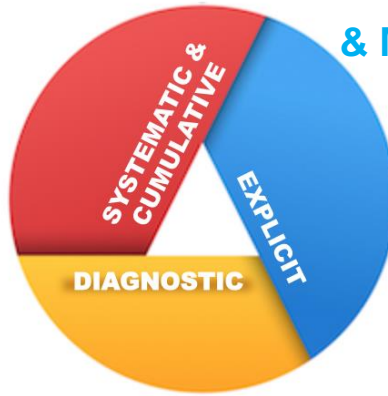


# Structured literacy

Explicit teaching of systematic word identification  
and decoding strategies

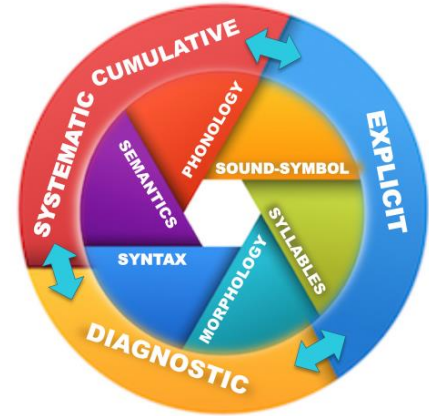


Evidence-based  
elements



Evidence-based  
teaching principles

**& Multisensory**



Effective reading  
instruction

**Source:** © 2016 Cowen for International Dyslexia Association  
<https://app.box.com/s/2yqu2ke21mxs0hz9l77owdlorgvtesyq>





# Literacy Block Changes

**#1**

Engaged in data analysis to determine areas of strength and gaps within literacy block

**#2**

Aligned master schedule with elements essential for structured literacy instruction

**#3**

Purchased materials to support instruction and made investments in human capital

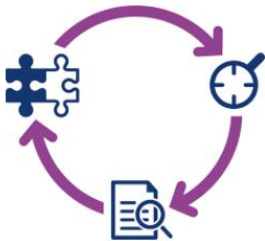
**#4**

Built systems and structures to support initiative

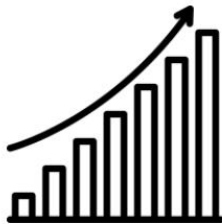
# Shared Vision



At Garfield we will use a structured literacy approach to instruction that is systematic and cumulative (follows a scope and sequence), explicit (planned for based off of student data and is multi-sensory), and diagnostic (continual assessment that informs instruction).



**Systematic**



**Cumulative**



**Explicit**



**Multi-Sensory**



**Diagnostic**

## Academics

*Refine the instructional program and develop the faculty to deliver quality programming and acceleration.*

### Goal(s):

- **Special Education – Reading Inventory - By EOY, 70% of students with IEPs will meet their growth expectations ranges**
- *ANet ELA (English Language Arts) and Math-* Percentage of Students Scoring at or Above Proficient – ANet 1, 2, and 3 – 80% of students earn a score of 80 – 100%
- *PARCC ELA and Math -* Decrease the percentage of L1 students by at least 10%
- *PARCC ELA and Math-* Increase the percentage of L4 and L5 students by at least 10%
- **DC Science** – Percentage of students scoring at or above a level 3 – 80% of students score a level 3 or 4 for the 2021-2022 assessment.
- **Social Studies**
  - Increase the percentage of proficient students by 10% percentage points after each RCT is administered
  - 90% of students earn a score of 80-100% on their final RCT
- **Pre-K** Garfield created early literacy skills assessment (% Prof - at least 80%)
- K-2 DIBELS (Dynamic Indicators of Basic Early Literacy Skills) (% Prof and Adv – at least 80%)
- K-1 TRC (Text & Reading Comprehension) (% Prof and Adv – at least 70%)



### Focus 1: MTSS

This includes:

- Full implementation
- weekly data meetings
- tier 1-3 instruction
- progress monitoring



### Focus 2: Acceleration Academies

This includes

- accurate and consistent progress monitoring
- robust instructional opportunities



### Focus 3: Early Literacy

This includes:

- implementation of the Science of Reading
- consistent and effective implementation of Foundations and Heggerty

# Cluster 1 Foci

# Needs Based Group

## Data

LEA assessments,  
LTRs, RGR,  
Phonemic  
Awareness

## Additional Supports

Specialized  
Instruction,  
Literacy Lab, HIT



## Student Needs

Social skills,  
Personality, Time of  
Day, ACE's

## Collaboration

All stakeholders  
share resources

# Evidence



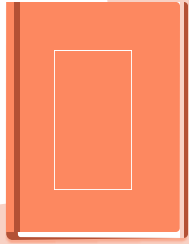
| Morphology                             |  |                          |
|--|--|--------------------------|
| ex - clude                             |  | Latin                    |
| out - shut                             |  |                          |
| leap                                   |  | Germanic;<br>Old English |
| (no prefix, no suffix)                 |  |                          |
| Re-leg-ate                             |  | Latin                    |
| With reference to - engage by contract |  | I                        |



# Putting it all together: Hitting your target!



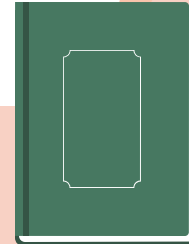
# Data at Randle Highlands



01

## Objectives

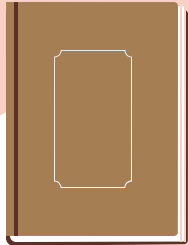
Provide an overview for connecting data with student plans.



02

## Methodology

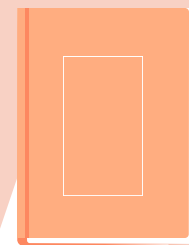
The use of aggressive monitoring to capture in the moment student responses.



03

## Analysis

The participants will have an opportunity to review the data and correlation between data collection and student outcome.



04

## Conclusion

Putting it all together! Providing a last look at why it is important to be intentional about data collection and aligning it to student plans.







# Objectives

By the end of the session, participants will be able to discuss why they use data and implement a data tool that will allow them to create instructional plans for student support and understand data and the use of aggressive monitoring supports student planning by collecting in the moment data.

What skillset do you have?





“Data adds concrete information to a teacher’s  
observation and intuition, but it will never  
replace experience, personal relationships,,  
and cultural understanding.”




—Jose Ferreira



# Why do you use data?



Drop your answer in the  
chatbox



In order for data analysis techniques to be implemented with fidelity, the evaluator must see the relevance in why it is used.

( You will only get out what you put in)



# What are you talking about?

In education many talk about being driven by data, but how do you get there?

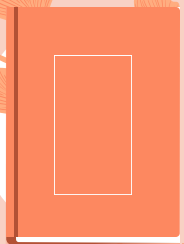
- We must be driven by data dialogue!!!
- We must be ok with being uncomfortable with not understanding data, but willing to develop that skill.
- We must be able to build capacity in those that will have a direct impact on students (teachers, instructional aides, administration, coaches)

**Now that you know, where do  
you go?**

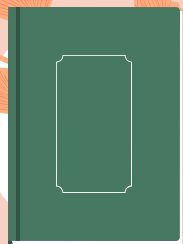


# Making Words Count:

## What programs are you using?



Click to add text



### Heggerty

The Heggerty Curriculum includes explicit instruction in the following phonological and phonemic awareness skills: **Rhyming. Onset Fluency. Blending. Isolating final and medial phonemes (sounds)**

### Dibels

A series of short tests that assess K-8 literacy. It is a set of procedures and measures for assessing the acquisition of a set of K-8 literacy skills, such as **phonemic awareness, alphabetic principle, accuracy, fluency, and comprehension.**



A picture is worth a  
thousand words

# Schedule



Monday

Tues

Wed

Thu

Fri

Heggerty

10 mins

10 mins

10 mins

10 mins

10 mins

Window 1

Window 2

Window 3

Dibels

Aug-Oct

Nov-Jan

Feb-Apr



Progress  
Monitoring

4 weeks

6 Weeks

# Methodology

Screening

Diagnostic

Progress  
Monitoring

Aggressive  
Monitoring



# Let's see it in action!!

Take a minute to view the 2 short videos and share your thoughts in the chat.





# What do you see?

## Small Group



## Whole Group



## Heggerty Phonemic Awareness

### Group Data Collection Sheet

WEDNESDAY 3/9/27

[illegible]



# Why was this tool used?

A

**Designed to be used with the program**

Although designed for the program there are options for redesign.

B

**Ease of use for data collection**

C

**Transferrable**

This information allows a quick response and reteach



When you change the way  
you look at things, the  
things you look at will  
change

Wayne Dwyer

# Intellectual Prep: Now What?

## Data Dialogue

- What did you see?
- What are the implications for instruction?
- What patterns do we see?



# We see numbers

Assessing what they know



# Now its time to assess- Dibels

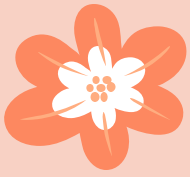
## 2 DIBELS® First Sound Fluency Grade K/Benchmark 2

| Test Items | Correct/2 points | Correct/1 point    | Incorrect |
|------------|------------------|--------------------|-----------|
| 1. land    | /l/              | /la/               | 0         |
| 2. gift    | /g/              | /gi/               | 0         |
| 3. snail   | /s/              | /sn/ /snai/        | 0         |
| 4. stove   | /s/              | /st/ /stoa/        | 0         |
| 5. mild    | /m/              | /mie/              | 0         |
| 6. stream  | /s/              | /st/ /str/ /strea/ | 0         |
| 7. pairs   | /p/              | /pe/               | 0         |
| 8. flare   | /f/              | /fi/ /fie/         | 0         |
| 9. peace   | /p/              | /pea/              | 0         |
| 10. sly    | /s/              | /sl/               | 0         |
| 11. plate  | /p/              | /pl/ /plai/        | 0         |
| 12. thank  | /th/             | /tha/              | 0         |
| 13. sweet  | /s/              | /sw/ /swea/        | 0         |
| 14. life   | /l/              | /lie/              | 0         |
| 15. blank  | /b/              | /bl/ /bla/         | 0         |
| 16. doll   | /d/              | /do/               | 0         |
| 17. sling  | /s/              | /sl/ /sli/         | 0         |
| 18. stairs | /s/              | /st/ /ste/         | 0         |
| 19. knees  | /n/              | /nea/              | 0         |
| 20. peek   | /p/              | /pea/              | 0         |
| 21. cream  | /k/              | /kr/ /krea/        | 0         |
| 22. clang  | /k/              | /kl/ /kla/         | 0         |
| 23. bag    | /b/              | /ba/               | 0         |
| 24. ride   | /r/              | /rie/              | 0         |
| 25. fruit  | /f/              | /fr/ /froo/        | 0         |
| 26. porch  | /p/              | /por/              | 0         |
| 27. flour  | /f/              | /fl/ /flow/        | 0         |
| 28. race   | /r/              | /rai/              | 0         |
| 29. chin   | /ch/             | /chi/              | 0         |
| 30. steam  | /s/              | /st/ /stea/        | 0         |

2-pt responses: \_\_\_\_\_

x 2: \_\_\_\_\_ + 1-pt responses: \_\_\_\_\_ = Total: \_\_\_\_\_



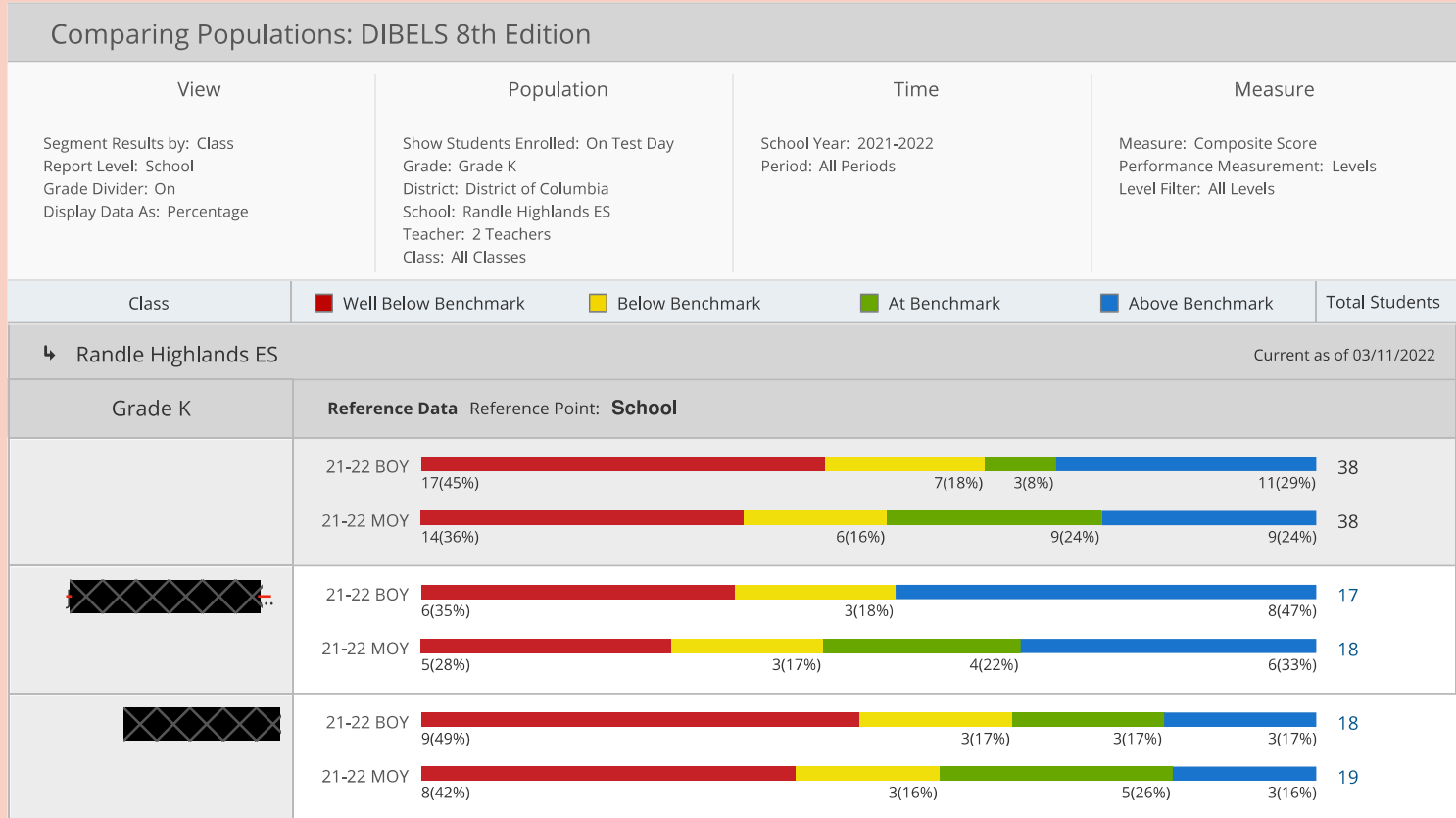


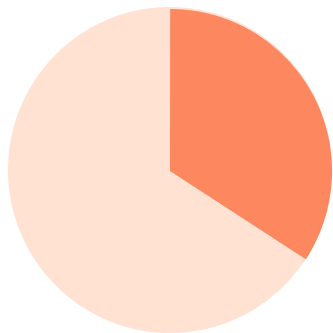
# Assessment in action

This is an example of what you will see when implementing this assessment. The goal is for the students to be able to complete this task in 1 minute.



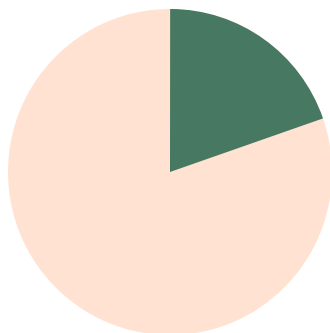
# Outcome...





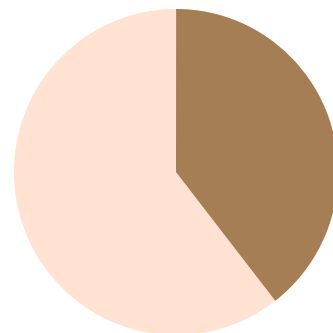
**37%**

At BOY there were 14  
students on or  
above grade level.



**48%**

At EOY there were 18  
students on or  
above grade level



**70%**

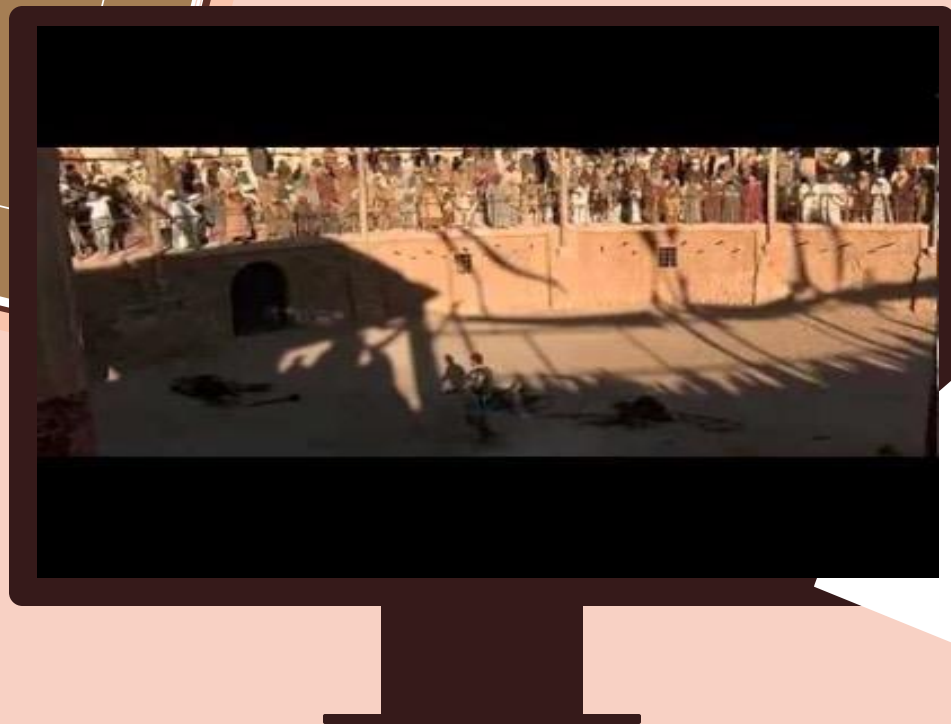
By EOY we need 26  
students to be on or  
above grade level.

**Begin with the end in mind: What is your goal?**



# Give them a show!

Let your data and your progress speak volumes. Be happy with the quick wins!



# Conclusions



## Conclusion #1

Create a culture around open dialogue as structure around data is being implemented.



## Conclusion #2

Make sure the use of data is ongoing and met with urgency.

## Conclusion #3

Be willing to change your process if it doesn't meet your collective needs or expected outcome.



# Questions?







## Resources:

<https://www.nancyyoung.ca/>

<https://dcps.dc.gov/equity>

<https://dibels.uoregon.edu/about-dibels>

<https://www.edreports.org/reports/overview/fountas-pinnell-classroom-2020>

<https://dyslexiaida.org/what-is-structured-literacy/>

<https://iowareadingresearch.org/blog/structured-and-balanced-literacy>

<https://dyslexia.yale.edu/>

<https://www.thereadingleague.org/wp-content/uploads/2021/05/Article-for-May-2021-TRLJ.pdf>

A decorative background with a light pinkish-orange color. In the top left is a white cup of dark coffee. Below it is a green leaf. To the right is a white flower with an orange center. In the bottom left is another white flower with an orange center. In the bottom right is a green notebook with an orange pen resting on it. There are also several small white starburst icons scattered around.

# Thank you!

## Keep in Touch!

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[@kedwardsnc](#)

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[@futuresdrjasmine](#)  
[www.linkedin.com/in/jasminerogers](https://www.linkedin.com/in/jasminerogers)

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