

BPS Screening Tools for Dyslexia

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Research, Evaluation & Assessment

David Heistad

International Dyslexia Association

Identifying Dyslexia

- The key symptoms of dyslexia are problems with decoding or single word reading and/or poor reading fluency and poor spelling.
- Phonological weaknesses or disorders, specific language-based difficulties, are usually the underlying cause of the literacy problems associated with dyslexia.
- Comprehension may be impaired and writing skills will suffer if spelling is not mastered.
- Language and vocabulary problems can cause comprehension difficulties that can become more severe over time as academic demands increase.
- Poor readers may have weak vocabulary and background knowledge caused by reading less than average readers.

<https://dyslexiaida.org/dyslexia-assessment-what-is-it-and-how-can-it-help/>

BPS Kindergarten

Literacy Domains Assessed

Tool	Phonological Awareness	Alphabetic Principle	Comprehension	Vocabulary	Word Recognition
BEKA (Fall)	Beginning Sounds, Rhyming Letter Sounds	Letter Names, Letter Sounds	Oral Comprehension	Oral Vocabulary	Concept of a word, Sight Words
BAS (Winter)			Comprehension of connected text, Identify Instructional Level		Accuracy & Fluency

Note: Writing and spelling are assessed at the classroom level

BPS Grade 1

Literacy Domains Assessed

Tool	Phonological Awareness	Alphabetic Principle	Comprehension	Vocabulary	Word Recognition /Fluency
MPG (fall and spring)	Beginning Sounds, Rhyming, Letter Sounds	Letter Names	Comprehension of connected text	Vocabulary for K-5 levels	N/A
BAS (fall and winter)			Comprehension of connected text, Identify Instructional Level, Self Correction		Accuracy & Fluency (Oral Reading Rate)

Note: Writing and spelling are assessed at the classroom level

Grades 2-5

Literacy Domains Assessed

Tool	Phonological Awareness	Alphabetic Principle	Comprehension	Vocabulary	Word Recognition /Fluency
MAP (fall and spring)	Beginning Sounds, Rhyming, Letter Sounds	Letter Names	Comprehension of connected text	Vocabulary for K-8 levels	N/A
BAS (fall and spring)			Comprehension of connected text, Identify Instructional Level, Self Correction		Accuracy & Fluency (Oral Reading Rate)

Note: Writing and spelling are assessed at the classroom level

Additional Assessments for Dyslexia

- Students who are below the 25th percentile on MAP reading and one grade level below on the BAS, have the following follow-up assessments:
 - 1) PRESS (U of M) Phonemic Awareness Inventory with phoneme segmentation, blending, and sound manipulation
 - 2) CORE (Consortium on Reaching Excellence) measures letter names, sounds, ability to read short vowel words and psuedo-words, low frequency spellings, and multi-syllabic words

BEKA: Standardized Assessment Used for Multiple Purposes

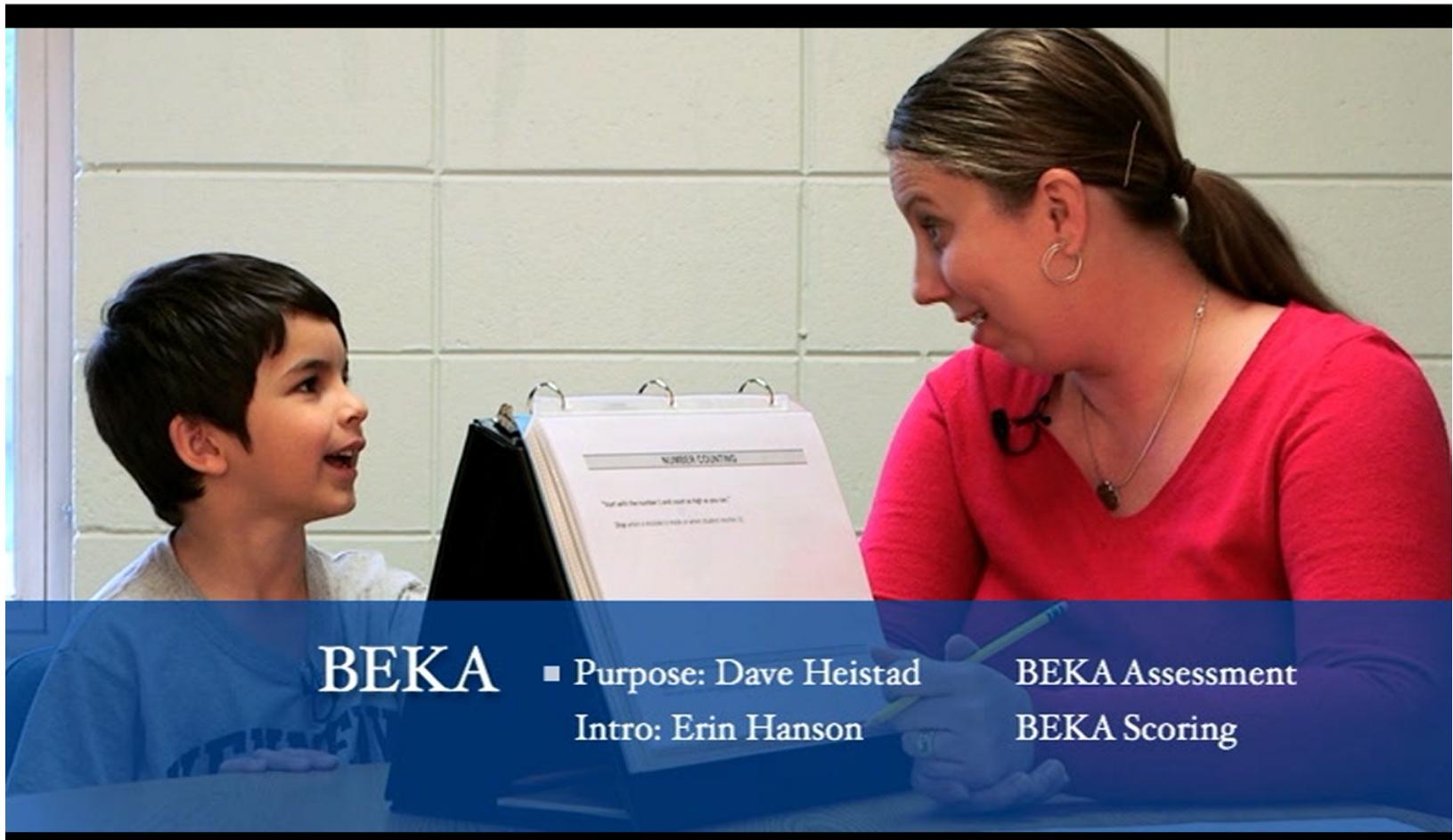
1. Summative Assessment for determining the success of pre-k interventions.
2. Screener at the beginning of the year for assisting differentiated instruction
3. Benchmark for pathway analysis and Milestone Metrics including narrowing the achievement gap
4. Pre-test for identifying teachers who “beat the odds” and to give “value-added” feedback.

https://www.youtube.com/watch?v=O-e7xLs7_j4

<https://www.youtube.com/watch?v=0Sv9H8ULvUg>

5. Tool for communicating with families
6. Screener for Dyslexia

ALL BEKA Assessors are trained with standard instructions



BEKA

■ Purpose: Dave Heistad
Intro: Erin Hanson

BEKA Assessment
BEKA Scoring

Bloomington Early Kindergarten Assessment (BEKA)

Numeracy Items – Correlation with Grade 1 Fall MPG Math

NUMBER COUNTING $r_{xy} = .512$

- Score 1 point for each number in sequence – up to 31.
- Stop when a mistake is made and record highest correct number. _____/31

COUNTING OBJECTS $r_{xy} = .436$

- Score 1 point for each correct set.
- _____ apples (3) _____ watermelon (8) _____ carrots (15) _____/3

PATTERNS $r_{xy} = .445$

- Score 1 point for each correct pattern.
- _____ AB pattern (scissors) _____ ABC pattern (ball) _____ AAB pattern (red, circle, or ball) _____/3

NUMBER RECOGNITION $r_{xy} = .436$

- Score 1 point for each number named correctly. (Put a slash through incorrect/ unknown numbers)
- **4 2 0 6 3 5 1 8 10 7 12 11 9 15 19 13 18 17 20 16 14** _____/21

NUMBER SEQUENCE $r_{xy} = .536$

- Score 1 point for each number in correct sequence [Circle correct sequence(s)] _____/7
- **4, 5, 8, 11, 13, 16, 21**

SIMPLE ADDITION $r_{xy} = .526$

- Score 1 point if answer is correct: $4+2 = 6$ _____/1

Bloomington Early Kindergarten Assessment (BEKA)

Literacy Items – Correlation with Grade 1 Fall MPG Reading

LETTER RECOGNITION $r_{xy} = .474$

Score 1 point for each letter named correctly. (Put a slash through incorrect/ unknown letters)

- M P B S T A H E D C N I J F V L Y R X G W O Z K Q U _____/26
- m p b s t a h e d c n i j f v l y r x g w o z k q u _____/26

SOUND RECOGNITION $r_{xy} = .484$

Score 1 point for each sound produced correctly. (Put a slash through incorrect/ unknown sounds)

- m p b s t a h e d c n i j f v l y r x g w o z k q u _____/26

BEGINNING SOUNDS $r_{xy} = .425$

Score 1 point for each correct response. (check ✓ correct beginning sound)

- Mud _____ 2. Ball _____ 3. Ten _____ 4. Soap _____ 5. hat _____ 6. Pig _____ _____/6

SIGHT WORDS $r_{xy} = .565$

Score 1 point for each correct response. (check ✓ correct word)

- the _____ at _____ and _____ of _____
- see _____ in _____ is _____ on _____
- you _____ it _____ like _____ go _____
- do _____ my _____ can _____ am _____
- me _____ we _____ no _____ up _____ _____/20

Bloomington Early Kindergarten Assessment (BEKA) Literacy Items – Correlation with Grade 1 Fall MPG Reading

CONCEPTS OF PRINT $r_{xy} = .521$

Score 1 point for each correct response. (check \checkmark each correct concept)

- Shows front of the book _____
- Shows where to begin reading _____
- Shows left to right _____
- Shows return sweep _____
- Counts number of words _____ _____/5

RHYMING WORDS $r_{xy} = .488$

Score 1 point for each correct response. (check \checkmark each correct word)

- 1) cat, sat, _____ 2) hop, top, _____ 3) bug, hug, _____
- 4) men, ten _____ 5) wig, dig, _____ 6) beat, meat, _____ _____/6

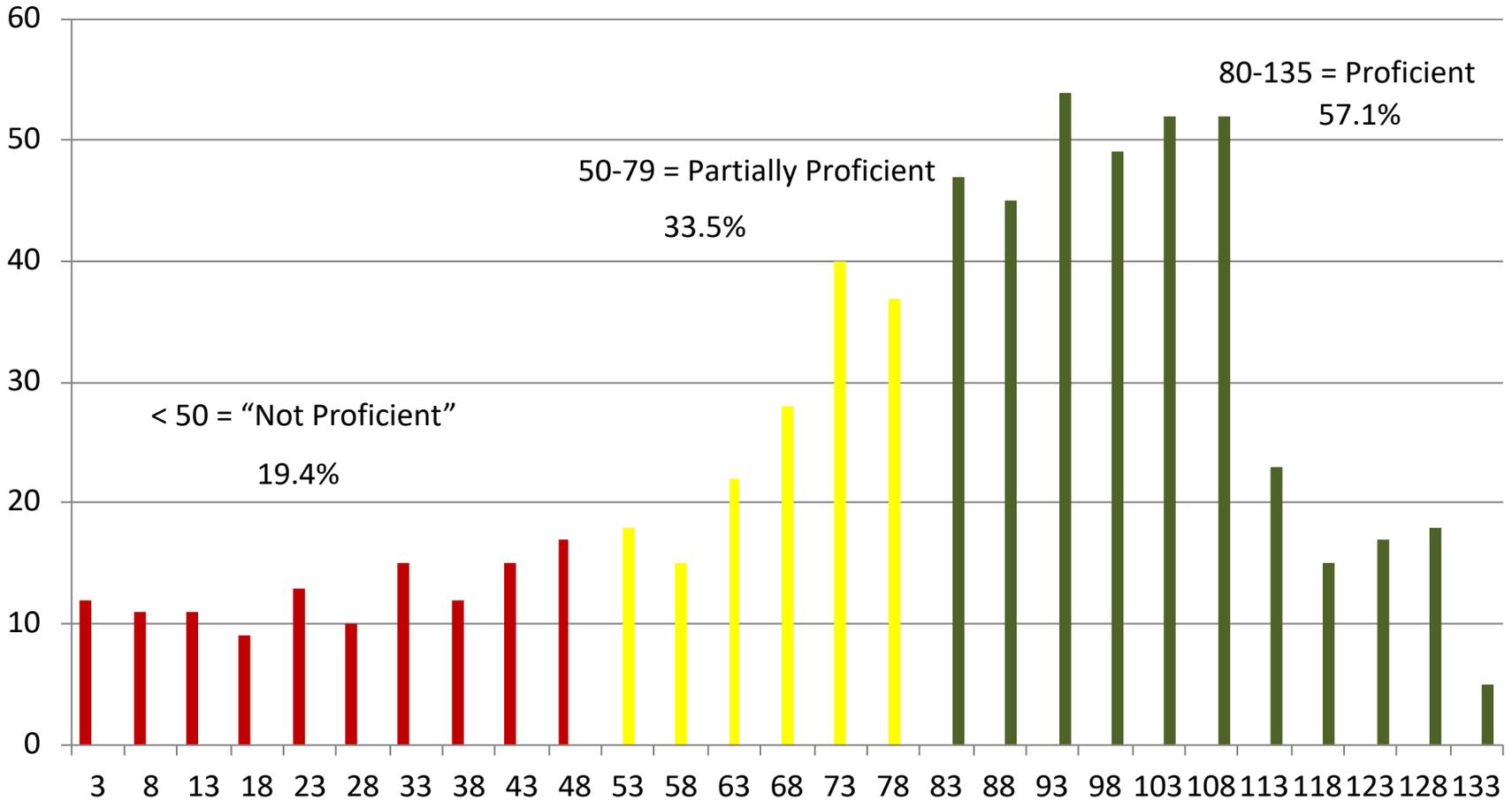
ORAL COMPREHENSION $r_{xy} = .529$

- Transfer score from bottom of comprehension score sheet. _____/21

• **Total Literacy** $r_{xy} = .626$

- **Total Numeracy** $r_{xy} = .632$ Note: These are restricted range estimates

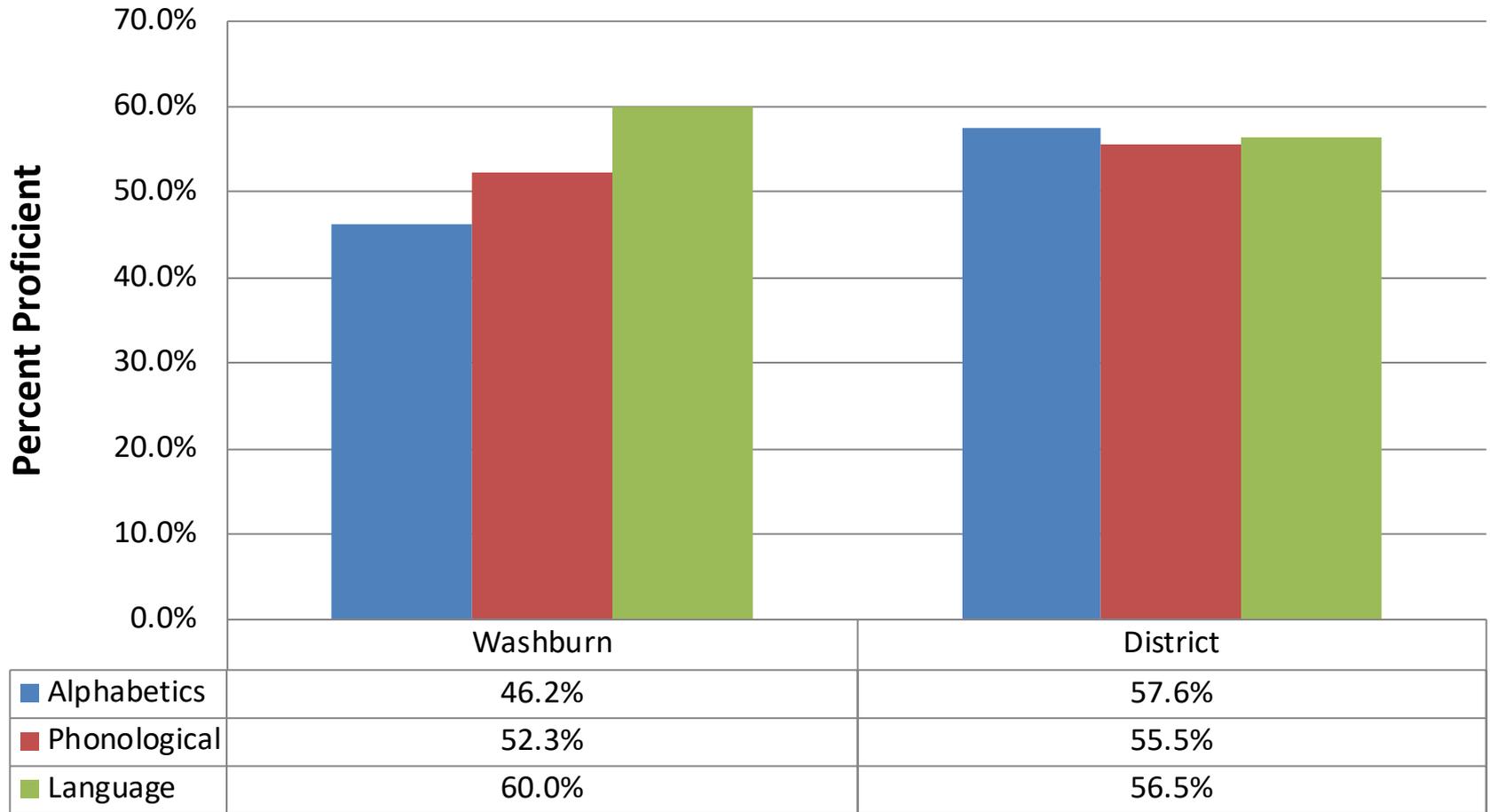
District Raw Score Distribution of BEKA Literacy



BEKA Literacy Strand Proficiency Cut Scores

- Total Literacy
 - Alphabetic Principal (Letters + Concepts of Print) = 49
 - Upper Case Proficiency = 24
 - Lower Case Proficiency = 22
 - Concepts of Print = 3
 - Phonological Awareness (Sounds + Rhyming) = 20
 - Beginning Sounds = 4
 - Rhyming = 3
 - Letter/Sound Recognition = 13
 - Language (Sight Words + Oral Comprehension) = 14
 - Sight Words = 1
 - Oral Comprehension = 13

BEKA Literacy Strand Proficiency



Other Tools for Dyslexia Screening

- See the National Center for Intensive Interventions for tools that meet standards of technical adequacy
 - <https://charts.intensiveintervention.org/chart/academic-screening>