

The Science of Reading Fluency: Understand * Assess * Teach

Jan Hasbrouck, Ph.D. @janhasbrouck

Reading Fluency

Understand * Assess * Teach

Jan Hasbrouck, Ph.D. Deborah Glaser, Ed.D.

- Ch. 1 Defining Reading Fluency
- Ch. 2 Assessing Reading Fluency
- Ch. 3 Teaching Reading Fluency
- Ch. 4 Integrating Fluency Skills

2



Benchmark Education PD Essentials

www.benchmarkeducation.com



ILA Literacy Leadership Brief 2018

Reading Fluently Does Not Mean Reading Fast

Jan Hasbrouck Deb Glaser

https://www.literacyworldwide.org/get-resources/position-statements



4

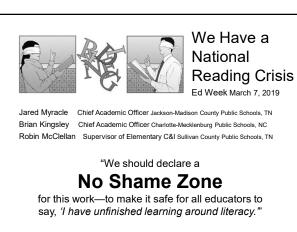
ALL reading skills have **ONE** purpose:

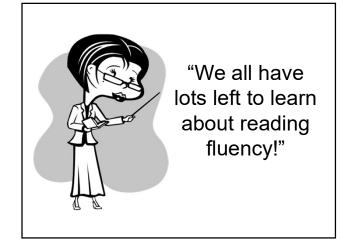
To facilitate and support **COMPREHENSION** (and motivation)

3

1

© 2019 ReadWA www.readwa.org @janhasbrouck



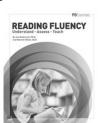




Understand * Assess * Teach

Putting it in Perspective

p. 6-7



Read Wei

www.readwa.org

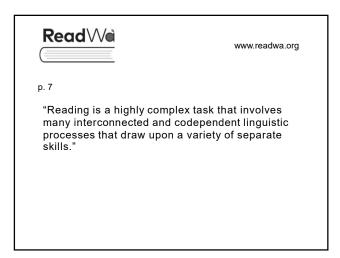
p. 7

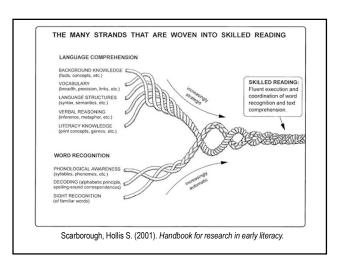
8

6

"Compelling evidence from a convergence of current reading research clearly indicates that 90% to 95% of all students can achieve literacy skills at or approaching grade level."

"...the (vast) majority of students can learn to read!" intervention instruction, provided by well-informed and well-supported teachers. This instruction must be systematic, explicit, and intensive, and designed to appropriately integrate elements of oral language development, phonemic awareness, phonics and decoding, fluency, vocabulary



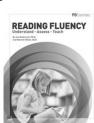




Understand * Assess * Teach

Chapter 1:

Defining Reading Fluency p. 9-17



www.readwa.org

o. 9

"Many questions surround the definition of fluency as a concept..."

www.readwa.org

p. 9

"We define fluency as:

- reasonably accurate reading,
- at an appropriate rate,
- with suitable expression,
- that leads to accurate and deep comprehension and motivation."

Read **W**€

www.readwa.org

p. 1

"Using [a] blend of science and practice, we conclude...that the performance standards for [the] three components of fluency should vary depending upon the demands of the task."

13

14

Read₩

www.readwa.org

p. 9

15

"We define fluency as:

- reasonably accurate reading,
- at an appropriate rate,
- with suitable expression,
- that leads to accurate and deep comprehension and motivation."

Read \/\e

www.readwa.org

p. 11

Reasonably accurate?

F_____

F_____! and

F_____! ACCURACY is the

F_____ of

p. 11

Reasonably accurate?

Aim for at least _____%

Emerging readers? _____%

Read Weiner Reasonably accurate?

17 18

Appropriate rate?

Fluent reading should sound like speech.

Stahl & Kuhn (2002)

p. 22

ORF Norms for Grades 1-6

Percentiles for oral reading fluency (ORF) norms on unpracticed, grade level text.

Hasbrouck & Tindal (2017)

An update to compiled ORF norms (Technical Report No. 1702) Eugene, OR. Behavioral Research and Teaching, University of Oregon

Appropriate rate?

___th%ile on oral reading fluency (ORF) norms on unpracticed, grade level text.

www.readwa.org

Appropriate rate (ORF)?

- **# 1 LIMITED EVIDENCE** from research or theory or practice that suggest a benefit to reading significantly ABOVE the 50th%ile. Can be detrimental.
- **# 2 SIGNIFICANT EVIDENCE** that it is crucial to help students read with fluency solidly at or very near the 50th%ile to support comprehension and motivation.

21 22

ReadWe

www.readwa.org

Appropriate rate?

www.readwa.org

p. 1

Suitable expression?

Pitch, tone, volume, emphasis, rhythm

Typically mirrors spoken language and conveys meaning.

23

Read

www.readwa.org

Suitable expression?

www.readwa.org

p. 13

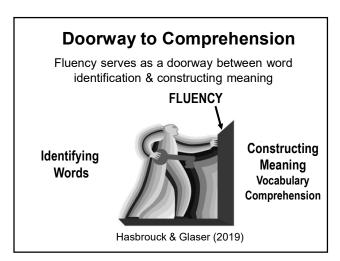
The ROLE of reading fluency

- A "bridge" between beginning and established reading
- A "doorway" to comprehension and motivated reading

25

26

Bridge to Comprehension Fluency forms the bridge between word identification & constructing meaning FLUENCY Identifying Words Constructing Meaning Vocabulary Comprehension Pikulski & Chard (2005)



28

The Role of Fluency in Reading?

ACCURACY: Comprehension is limited by inaccurate reading (below 95%).

RATE: Comprehension is limited by inefficient, slow, laborious reading or reading too fast.

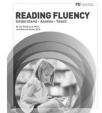
Lack of fluency = lack of motivation = fewer words read = smaller vocabulary = limited comprehension (self-perpetuating)

Reading Fluency

Understand * Assess * Teach

Chapter 2:

Assessing Reading Fluency p. 19-33



29

30

32

Read Wei

www.readwa.org

p. 19

3-part philosophy of assessments in schools:

- 1. We are probably doing too much assessing!
- 2. As professionals, we *must* conduct assessments to inform our work!
- 3. We must collect useful information as *quickly* and *efficiently* as possible!



ORF Common Confusions



ORF Common Confusion # 1

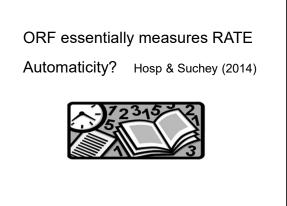
Oral reading fluency (ORF) measures fluency.



Oral reading fluency assessments were

MISNAMED!

33 34





36

To assess or diagnose the complex **SKILL** of reading fluency you must listen to a student read aloud, and...for more than just 60 seconds!

Assess all three COMPONENTS plus the MECHANICS of fluency as necessary...



ORF Common Confusion # 2

A higher ORF score is better

Read Wei

www.readwa.org

Appropriate rate?

Fluent reading should sound like speech.

Stahl & Kuhn (2002)

37

38



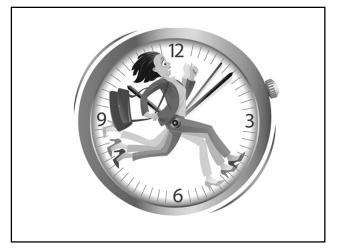
ORF Common Confusion # 3

We should REALLY be assessing comprehension



Comprehension is very complex!

39



Reading Fluency

Understand * Assess * Teach

Chapter 2:

Assessing Reading Fluency

p. 22

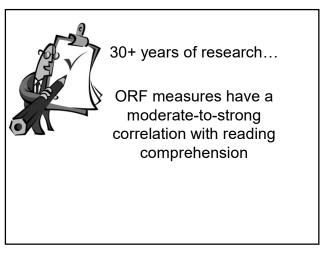
Curriculum-Based Measurement (CBM)

"...(ORF) has sufficient reliability and validity to make key decisions about students' reading performance."



41

42



CBM-R ORF Scores Correlate with Reading Comprehension

Fuchs, Fuchs, Hosp, & Jenkins, SSR, 2001

Measure	Validity Coefficients
Oral Recall / Retell	
Cloze	
Question Answering	
Oral Reading Fluency	

accuracy + rate measures predict comprehension

43



ORF Common Confusion # 4

Students with low ORF scores need a fluency intervention



ORF assessments function as a thermometer

45

www.readwa.org

p. 23

ORF assessment as a thermometer:

- Both have proven reliability and validity;
- Can be used quickly;
- Provide "score" compared to a benchmark;
- NOT diagnostic; "One piece of the puzzle"

www.readwa.org

p. 21

46

3 Big Ideas about fluency assessments:

- Assessments of accuracy + rate (ORF) can help determine which students *might* need extra support;
- ORF assessments can help diagnose a student's individual skill level in reading fluency;
- 3. ORF assessments can help us determine if a student is making sufficient progress.

47



www.readwa.org

All assessments should be conducted to answer a question...

...as quickly and efficiently as possible!

p. 21

3 Big Ideas about fluency assessments:

#1. Assessments of accuracy + rate (ORF) can help determine which students *might* need extra support

WHO might need help?

Benchmark/Screening

49 50

Benchmark Screening 3x Year: Fall, Winter, Spring Benchmark Screener Significantly Below Benchmark May Need Extra Assistance Additional assessments or other information should also be considered...

ORF as a BENCHMARK/SCREENING assessment:

Number of words (or letter names or sounds) read correctly per minute

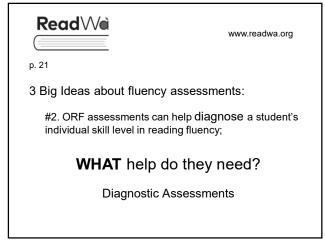
DIBELS 8th Ed. U of Oregon K-8

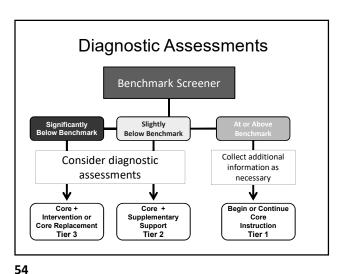
Acadience Dynamic Measurement Group K-6

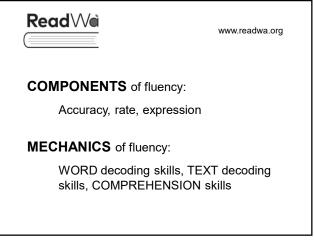
AIMSweb Pearson K-8

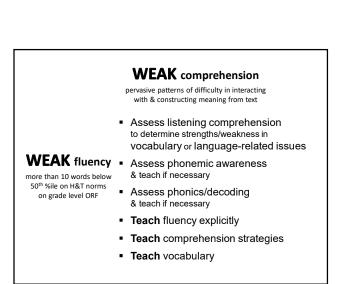
easyCBM Riverside K-8

FAST FastBridge K-8









The Science of Reading Fluency 9-28-19 Jan Hasbrouck, Ph.D.

STRONG

comprehension

WEAK fluency

more than 10 words below 50th %ile on H&T norms on grade level ORF

- Assess phonics/decoding & teach if necessary
- Assess sight word knowledge & teach if necessary
- Teach fluency explicitly
- Challenge with high-level comprehension and vocabulary

WEAK comprehension

pervasive patterns of difficulty in interacting with & constructing meaning from text

STRONG fluency

at or above 50th %ile on H&T norms

on grade level ORF

- Assess for language concerns
- Teach comprehension strategies
- Teach vocabulary

57 58

STRONG

comprehension

STRONG fluency

at or above 50th %ile on H&T norms on grade level ORF Challenge with high-level comprehension and vocabulary and spelling and writing! www.readwa.org

p. 33

3 Big Ideas about fluency assessments:

#3. ORF assessments can help us determine if a student is making sufficient progress.

Is the work WORKING?

Progress Monitoring Assessments

Read **W**€

www.readwa.org

The science of progress monitoring:

- MORE research needed
- Schools must use MULTIPLE SOURCES of information to support decisions about progress
- All CBM scores are ESTIMATES
- CONFIDENCE INTERVALS must be used

Ardoin & Christ (2009)

Read **W**€

www.readwa.org

p. 33

Many ways to determine progress:

Daily performance in small group instruction; written work; in-program assessments

Tier 2 & Tier 3: consider CBM-R ORF assessments

Monthly? Every 2 weeks?

Graph progress: Wait for 5 consecutive scores

61

62

Resources for CBM

The ABCs of CBM (2016) Hosp, Hosp, & Howell

Center on Response to Intervention rti4success.org



Reading Fluency

Understand * Assess * Teach

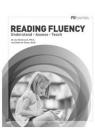
Chapter 3:

Teaching Reading Fluency p. 35-43

Chapter 4:

Integrating Reading Fluency Skills

p. 45-50



63

Read **W**€

www.readwa.org

p. 35

Fluency instruction?

"The growth of reading fluency, in all its multifaceted glory, is an outcome of many different kinds of instruction...

...coupled with large amounts of carefully orchestrated reading practice."

Hudson, Lane, & Pullen (2005)

www.readwa.org

p. 35

Fluency instruction?

TRIPLE A!

- ACCURACY!
- AUTOMATICITY!
- ACCESS meaning!

65

66

www.readwa.org

"It is critical that we establish...instruction that assist(s) learners in becoming **truly fluent** readers rather than just **fast** ones."

Kuhn, Schwanenflugel, & Meisinger (2010)

Reading Fluency

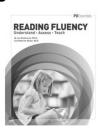
Understand * Assess * Teach

Chapter 3:

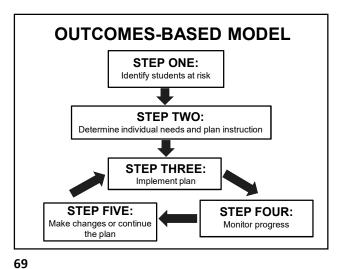
Teaching Reading Fluency

Outcomes-Based Model

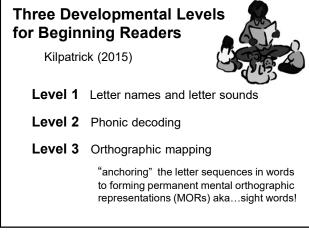
p. 36

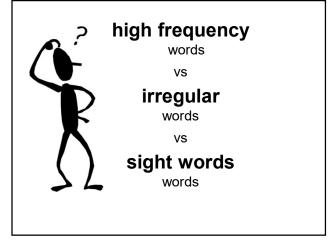


67









Dolch Bas	sic Words	PreK		
а	and	away	big	blue
can	come	down	find	for
funny	go	help	here	1
in	is	it	jump	little
look	make	me	my	not
one	play	red	run	said
see	the	three	to	two
up	we	where	yellow	you

Dolch Basi	c Words 1	st Grade	
all	am	are	at
ate	be	black	brown
but	came	did	do
eat	four	get	good
have	he	into	like
must	new	no	now
on	our	out	please
pretty	ran	ride	saw
say	she	so	soon
that	there	they	this
too	under	want	was
well	went	what	white
who	will	with	yes

DIFFERENTIATED FLUENCY INSTRUCTION

ALL STUDENTS Tiers 1, 2, 3

In-class practice opportunities.

SUPPLEMENTAL & INTERVENTION Tiers 2 & 3

Explicit, systematic, intensive, active instruction with supervised, sustained guided practice.



Research on Fluency Instruction

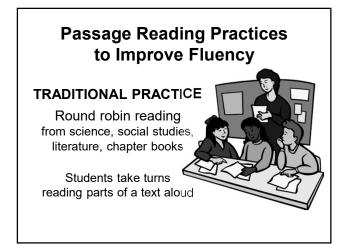
 Oral, guided reading practice with feedback improves fluency for "typical" students.

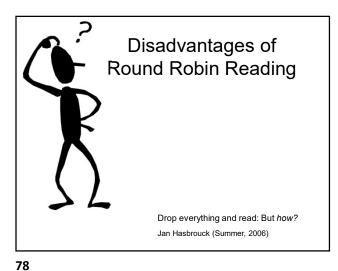
 Provide feedback to correct EVERY error.

76

Small group instruction! Across the grades!





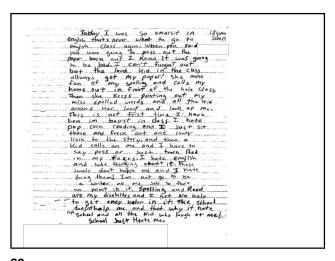


Noah

18 year old HS senior

Dyslexic

One page from his daily journal in English class...





ALTERNATIVES to Round Robin

- ✓ Choral Reading
- ✓ Cloze Reading
- ✓ Augmented Silent Reading
- ✓ Structured Partner Reading

Augmented Silent Reading

Keep students **ACCOUNTABLE** during silent reading. Avoid **FAKE SILENT READING!**

PROCEDURE

- Pose a question before students read then ask for responses afterward
- Re-read (chorally?) to verify correct answer
- Wander and listen to individual students
- RCRC: Read Cover Recall Check

82

Structured Partner Reading

PROCEDURE

81

- ASSIGN student partners
- Designate amount to read to partner
- When an error is heard, teach students to use the "Ask, then Tell" procedure:

ASK "Can you figure out this word?"

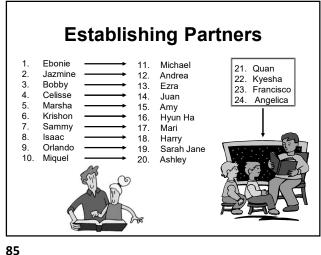
TELL "The word is _____." "Read the sentence again."

Establishing Partners

- Avoid pairing highest and lowest skilled readers
- Consider taking lowest readers into a small group for practice with the teacher



83



6 Minute Fluency Practice

- 1. Select/prepare materials.
- 2. Select partners and **PRACTICE** the procedures
- 3. Ready, set, GO!

86

- Minute 1: Partners get materials and get ready.
- Minute 2: Partner #1 reads aloud; Partner #2 listens and track errors.
- Minute 3: Debrief and Partner #2 gets ready to read.
- Minute 4: Partner #2 reads aloud/Partner #1 listens and track errors.
- Minute 5: Debrief and wrap up.
- Minute 6: Partners clean up and get ready for next classroom activity.

Thanks to Gail Adams: 6 Minute Solution

Study Groups

 ${\ensuremath{\mathsf{INTRODUCE}}}$ the concept of study groups:

"This is a GOOD choice, used by SMART and SUCCESSFUL students-- in college!"

TEACH the lesson, introduce assignment, etc. to whole class

OPTION: Study group with teacher? Teams? Alone?

SOME students ASSIGNED "option"

- Overly Confident? Study group
- Lack of Confidence? Work alone or with a team or partner.



FLUENCY INTERVENTION THREE PART MODEL

- **✓** ACCURACY
- **✓** RATE
- √ GRAPHING FOR MOTIVATION

READ NATURALLY www.readnaturally.com

FLUENCY INTERVENTION

PLACEMENT FIRST!

 Place students in appropriate level: CHALLENGING! Placement Packet online www.readnaturally.com



2. Assign wcpm goal:

89

Placement baseline + 30 for Gr. 1.5 to Gr. 4

Placement baseline + 40 for Gr. 5+

FLUENCY INTERVENTION

(1) FOLLOW A MODEL

Reading along with a model of **ACCURATE** reading from an audio tape/CD or computer

OR a skillful reader

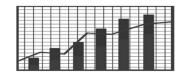


(2) REPEATED READING

Students **REREAD** passage orally to themselves or a partner until goal achieved (4-10 times)

(3) MONITORING PROGRESS

Students **GRAPH** their performance: "Cold" reading first- **BLUE**; then again after practice- **RED**





www.readwa.org

Read Washington

THANKS YOU for attending!

TOGETHER, we can prevent the unnecessary pain of reading failure.



91

92