TEXTS, FEATURES, & USES ASSESSING READER-TEXT MATCH: HOW TEXTS AND READERS INTERACT

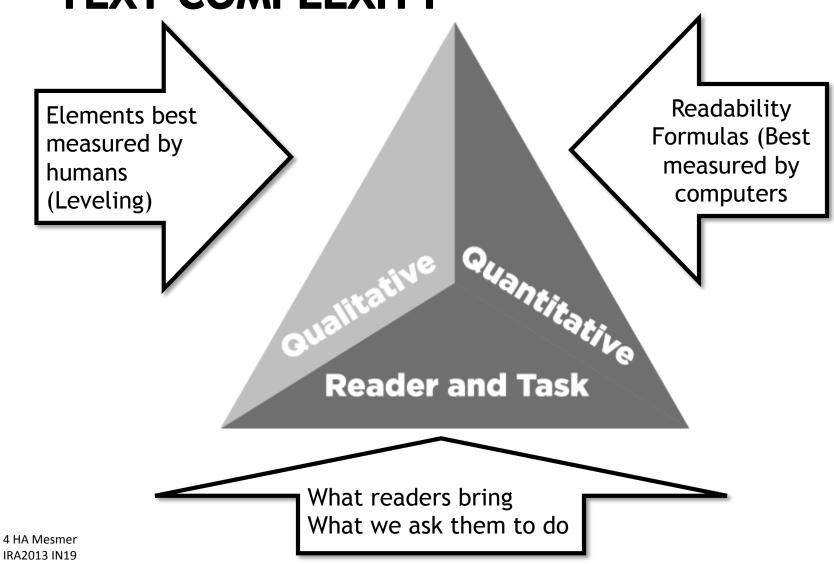
Heidi Anne E. Mesmer, Ph D Virginia Tech What goes into the match?

THEORY OF READER-TEXT MATCHING

COMMON CORE'S DEFINITION OF TEXT COMPLEXITY

"the inherent difficulty of reading and comprehending a text combined with the considerations of reader and task variables (CCSS-ELA, 2010, p.43)."

COMMON CORE: THREE-PART MODEL FOR ASSESSING TEXT COMPLEXITY



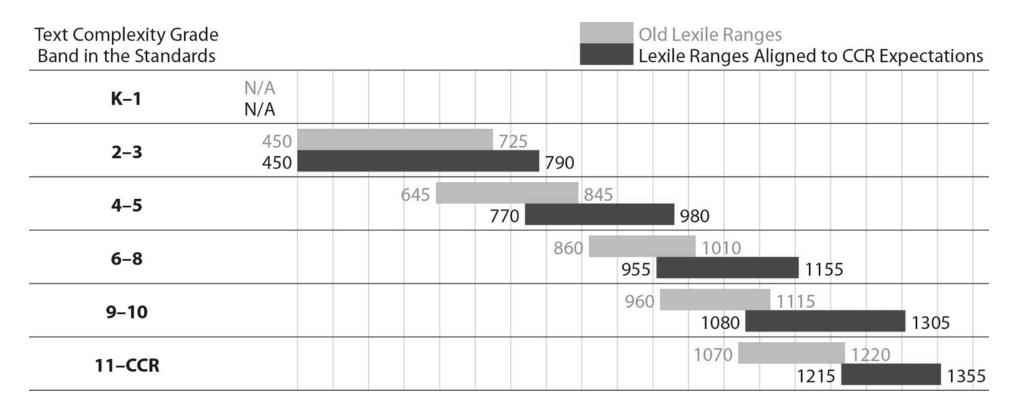
QUANTITATIVE

All of the major educational publishing entities are on board.

Common Core Band	ATOS	Degrees of Reading Power®	Flesch- Kincaid ⁸	The Lexile Framework®	Reading Maturity	SourceRater
2 nd – 3rd	2.75 – 5.14	42 – 54	1.98 – 5.34	420 – 820	3.53 - 6.13	0.05 - 2.48
4 th – 5 th	4.97 – 7.03	52 – 60	4.51 – 7.73	740 – 1010	5.42 - 7.92	0.84 - 5.75
6 th – 8 th	7.00 – 9.98	57 – 67	6.51 - 10.34	925 – 1185	7.04 – 9.57	4.11 – 10.66
9 th – 10 th	9.67 – 12.01	62 – 72	8.32 – 12.12	1050 - 1335	8.41 – 10.81	9.02 - 13.93
11 th – CCR	11.20 - 14.10	67 – 74	10.34 – 14.2	1185 – 1385	9.57 – 12.00	12.30 - 14.50

Source: Supplemental Information for Appendix A of the Common Core State Standards for English Language Arts and Literacy: New Research on Text Complexity

New (Common Core State Standards) & Old (Metametrics)



Hiebert, E. H. & Mesmer H.A. (2013). Upping the Ante of Text Complexity in the Common Core State Standards: Examining its Potential Impact on Young Readers. Educational Researcher, 42 (1). 44-51.

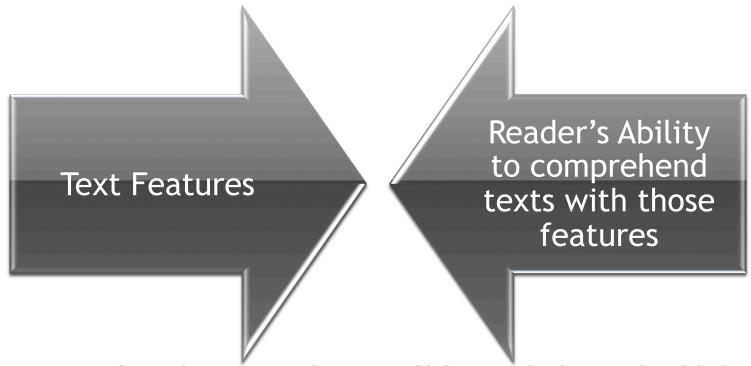
TEXT COMPLEXITY- OUR VIEW



- Text Complexity = Text Features
- For example
 - Length of sentences
 - Difficulty of words
 - Number of complex sentences.
 - Number of prepositional phrases.
 - o Number of syllables per word

TEXT DIFFICULTY-OUR VIEW

 Connecting the features of texts (text complexity) to READERS performance.



Mesmer, H., Cunningham, J. W., Hiebert, E. H. (2012). Toward a theoretical model of text complexity for the early grades: Learning from the past, anticipating the future. *Reading Research Quarterly*, 47 (3), 234-258.

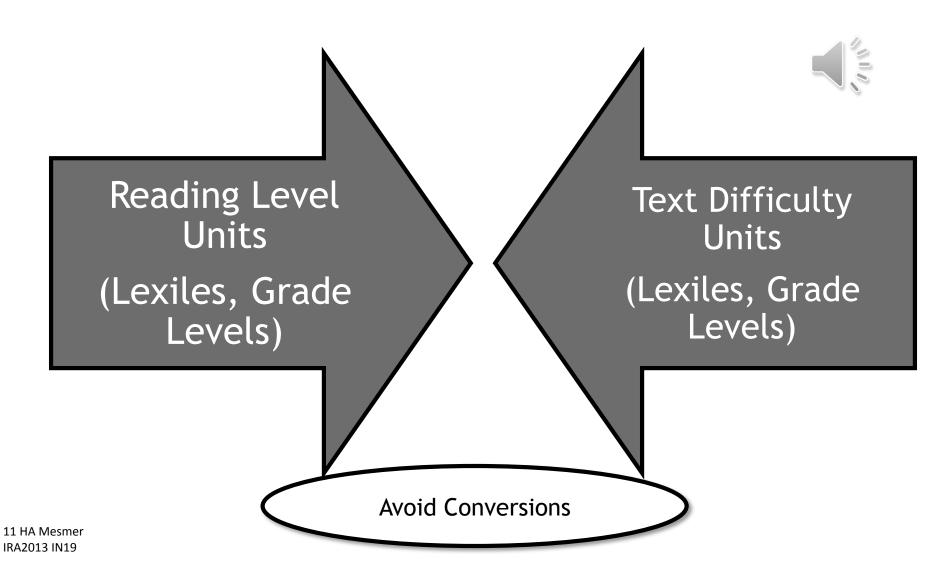
ASSESSING READER-TEXT MATCHING

ASSESS DIFFICULTY

Common Core Band	ATOS	Degrees of Reading Power®	Flesch- Kincaid ⁸	The Lexile Framework®	Reading Maturity	SourceRater
2 nd – 3rd	2.75 - 5.14	42 – 54	1.98 - 5.34	420 – 820	3.53 - 6.13	0.05 - 2.48
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6 th – 8 th	7.00 – 9.98	57 – 67	6.51 - 10.34	925 – 1185	7.04 - 9.57	4.11 – 10.66
9 th – 10 th	9.67 – 12.01	62 - 72	8.32 – 12.12	1050 - 1335	8.41 – 10.81	9.02 - 13.93
11 th – CCR	11.20 - 14.10	67 – 74	10.34 - 14.2	1185 – 1385	9.57 – 12.00	12.30 - 14.50

Is the text one for which the student can identify the words and comprehend the text?

ASSESS DIFFICULTY USING QUANTITATIVE GUIDELINES



ASSESS THE STRETCH

 Students need opportunities to stretch their reading abilities but also to experience the satisfaction and pleasure of easy, fluent reading within them, both of which the Standards allow for. . . Students deeply interested in a given topic, for example, may engage with texts on that subject across a range of complexity. Particular tasks may also require students to read harder texts than they would normally be required to. (Appendix A, page 9)

WHAT IS STRETCH?

- Not well defined in the literature.
- It is usually considered a level that surpasses the usual standards for reader-text matching.
- Research is mixed.

Table Betts's	Framework of Reading Levels		
		Criteria	
Level	Betts's Description (1946, p. 438-439)	Word recognition	Comprehension
Independent	"can read with full understanding and freedom from mechanical difficulties"	99–100%	90–100%
Instructional	"systematic instruction can be initiated"	95–99%	75-89%
Frustration	"thwarted or baffled by the language"; "may exhibit emotional behavior characteristic of a frustrated individual"	≤90%	≤ 50%

HOW CAN YOU STRETCH A READER?

- Read the material aloud (Stahl, 2013)
- Question the typical Independent, Instructional, and Frustrational levels (Halladay, 2012)
 - Students may not need the high levels of accuracy that we typically thought (May be able to go down as low as 85)
 - Silent reading behaviors and oral reading behaviors may not be as related as we thought.

HOW FAR CAN READERS BE STRETCHED? OUR RESULTS

200L is TOO

- Stretch texts
 - 76L above level
- MeanComprehension=61%
 - On/Above = 64%
 - Below = 59%

- Difficult texts
 - 200L above level
- MeanComprehension=49%
 - On/Above = 53 %
 - Below = 47%

May be able to go a little over ½ Grade Level above or 75L

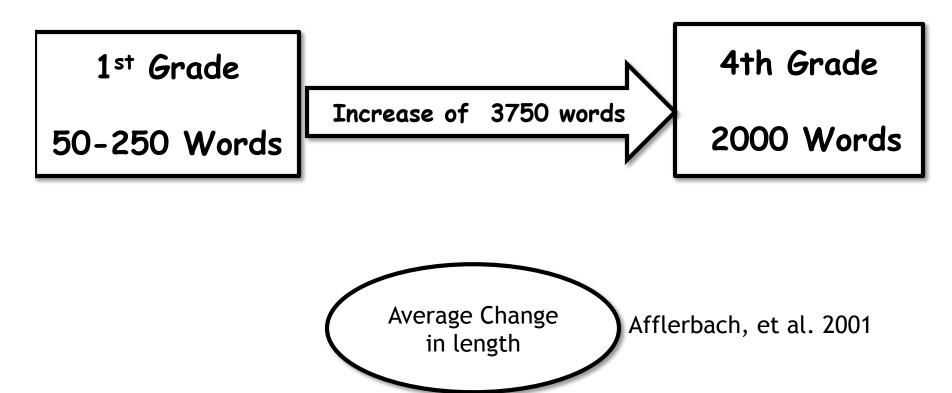
ASSESS THE GENRE

Grade	Literary	Informational
4	50%	50%
8	45%	55%
12	30%	70%

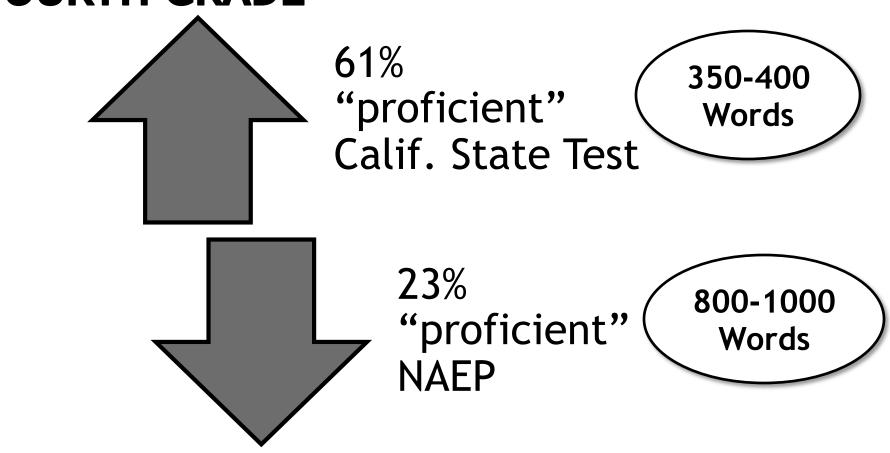
Source: National Assessment Governing Board. (2008). Reading framework for the 2009 National Assessment of Educational Progress. Washington, DC: U.S. Government Printing Office.



ASSESS LENGTH

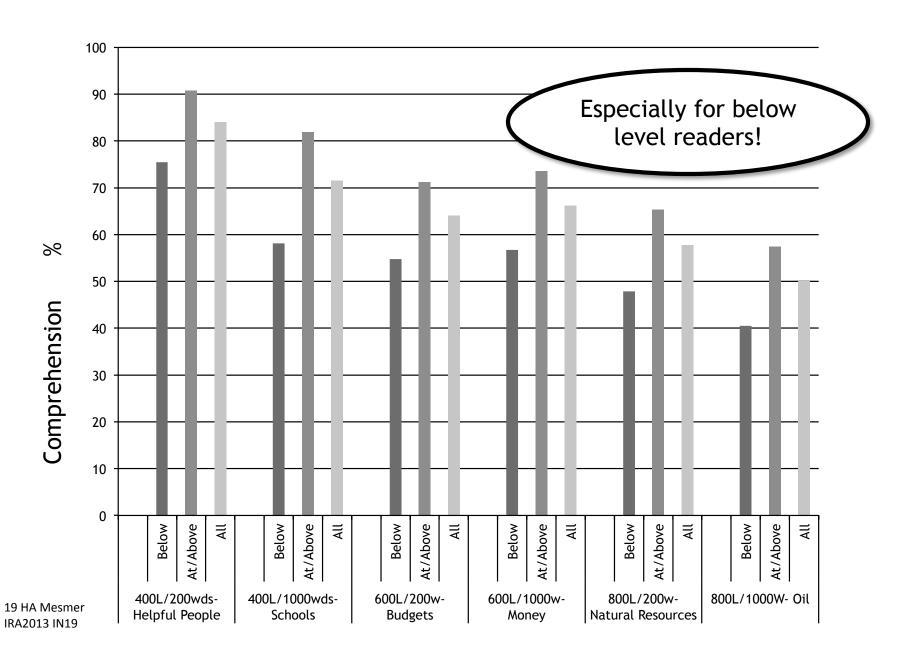


IMPACT OF TEXT LENGTH IN FOURTH GRADE



Hiebert & Calfee, 2010

LENGTH COMPOUNDS DIFFICULTY



MESSAGE

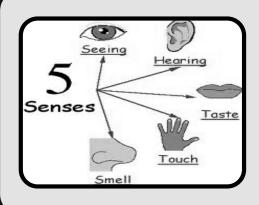
Don't increase length and difficulty at the same time.

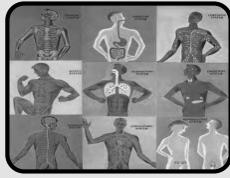
ASSESS KNOWLEDGE BUILDING

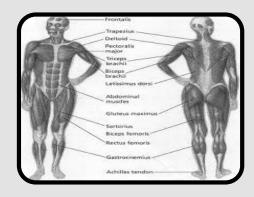
Exemplar Texts on a Topic 1 2-3 4-5 Across Grades The Human Body The five senses and associated Introduction to the systems of the Digestive and excretory systems Circulatory system body parts human body and associated body What Happens to a Hamburger The Heart by Seymour Simon Students can begin learning My Five Senses by Aliki (1989) by Paul Showers (1985) (2006)about the human body Under Your Skin: Your Amazing Hearing by Maria Rius (1985) The Digestive System by The Heart and Circulation by starting in kindergarten Body by Mick Manning (2007) Christine Taylor-Butler (2008) Carol Ballard (2005) and then review and extend · Sight by Maria Rius (1985) Me and My Amazing Body by their learning during each The Circulatory System by The Digestive System by Joan Sweeney (1999) Smell by Maria Rius (1985) subsequent grade. Rebecca L. Johnson (2006) Kristin Petrie (2007) Taste by Maria Rius (1985) The Human Body by Gallimard The Digestive System by Kristin The Amazing Circulatory System Jeunesse (2007) Touch by Maria Rius (1985) Petrie (2007) by John Burstein (2009) The Busy Body Book by Lizzy Taking care of your body: Taking care of your body: Respiratory system Rockwell (2008) Overview (hygiene, diet, exercise, Healthy eating and nutrition The Lungs by Seymour Simon First Encyclopedia of the Good Enough to Eat by Lizzy Human Body by Fiona Chandler Rockwell (1999) My Amazing Body: A First The Respiratory System by Look at Health & Fitness by Pat Showdown at the Food Pyramid Susan Glass (2004) Taking care of your body: Germs, Thomas (2001) by Rex Barron (2004) diseases, and preventing illness The Respiratory System by Get Up and Go! by Nancy Muscular, skeletal, and nervous Kristin Petrie (2007) Carlson (2008) Germs Make Me Sick by Marilyn Berger (1995) The Remarkable Respiratory Go Wash Up by Doering · The Mighty Muscular and System by John Burstein (2009) Deeply urville (2008) Tiny Life on Your Body by Skeletal Systems Crabtree Christine Taylor-Butler (2005) Endocrine system Publishing (2009) by Paul Showers (1997) Germ Stories by Arthur The Endocrine System by develop Body by Doering · Muscles by Seymour Simon Kornberg (2007) Rebecca Olien (2006) (1998)(2008)All About Scabs by The Exciting Endocrine System Bones by Seymour Simon GenichiroYagu (1998) content across by John Burstein (2009) (1998) The Astounding Nervous System Crabtree Publishing (2009) grades · The Nervous System by Joelle Riley (2004)

Human Body-Exemplar Texts with Increasing Difficulty

BUILDING KNOWLEDGE DEPTH WITH CROSS-GRADE, THEMATICALLY-UNIFIED TEXT SETS







K

- -5 Senses
- -Taking care of the body -hygiene, diet, exercise

1

- -Intro to the systems of the human body
- -Taking care of the body-germs & disease

2

- -Muscular, skeletal, and nervous systems
- -Digestive systems
- -Taking care of the body nutrition.

ASSESS THE TASK

"CLOSE" READING

- Materials provide opportunities for students to build knowledge through close reading of specific texts.
- Close reading and gathering knowledge from specific texts should be at the heart of classroom activities and not be consigned to the margins when completing assignments. Reading strategies should work in the service of reading comprehension (rather than an end unto themselves) and assist students in building knowledge and insight from specific texts.

TEXT DEPENDENT QUESTIONS

• A significant percentage of tasks and questions are text dependent. The standards strongly focus on students gathering evidence, knowledge, and insight from what they read and therefore require that a majority of the questions and tasks that students ask and respond to be based on the text under consideration.

- High-quality sequences of text-dependent questions elicit sustained attention to the specifics of the text and their impact.
- Questions and tasks require the use of textual evidence, including supporting valid inferences from the text.
- Instructional design cultivates student interest and engagement in reading rich texts carefully.



THANK YOU! HEIDI ANNE MESMER HAMESMER@VT.EDU