

How to Use Your Data to Inform Literacy Instruction

Barbara Foorman, Ph.D.

Director

Center on Instruction - Literacy Strand
Florida Center for Reading Research
Florida State University

October 18, 2011



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2011

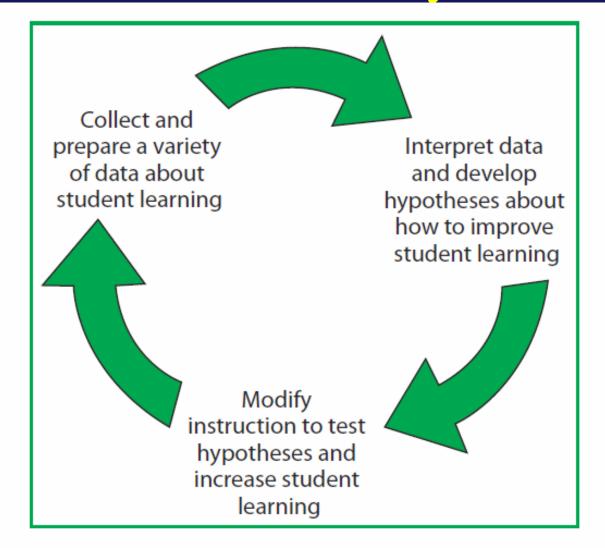
Purpose of Assessment

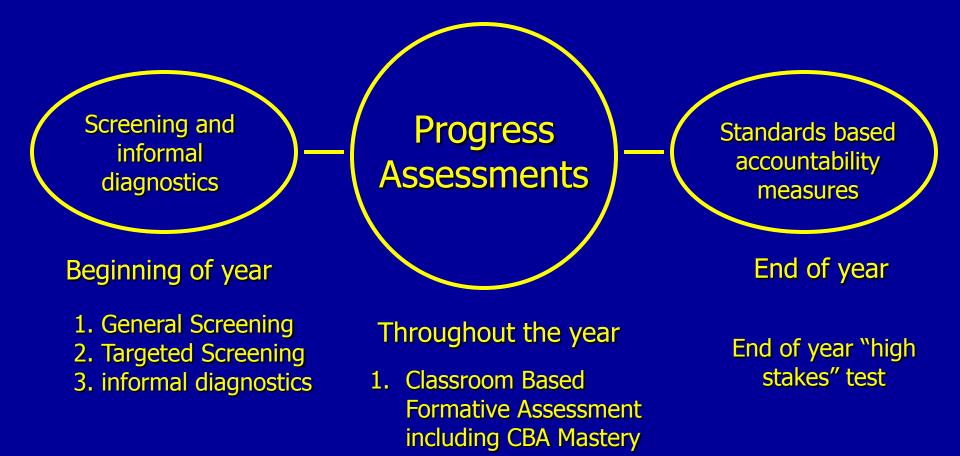
What question is to be answered?

Who will use the information?

What are the actions to be taken?

Data Use Cycle





Formal and informal diagnostic measures can really be given anytime during the year, whenever the need arises

2. Benchmark assessments

3. General Outcome CBM

assessment

What's the Correct Answer?

- An assessment is _______to the extent that information from the assessment is fed back within the system and actually used to improve the performance of the system in some way. [from Black & Wiliam, 2007]
- A. interim
- B. formative
- C. summative

Benchmark, or interim, assessments

Typically standards-based assessments that mimic the year-end accountability assessment

- Currently very popular with district and school leaders
- Used for identifying students "at risk" for performance below standards on year-end summative measure
- Useful for evaluating impact of instructional programs
- Teachers typically do not find useful for guiding instruction
- Are usually standardized within a school, or across a district
- No systematic research currently available indicating their impact on student performance

 Torgesen & Miller, (2008). COI

FCAT 2.0 Reporting Categories

- Reporting Category 1: Vocabulary
- Reporting Category 2: Reading Application

• Reporting Category 3: Literary Analysis-Fiction/Nonfiction

 Reporting Category 4: Informational Text/ Research Process

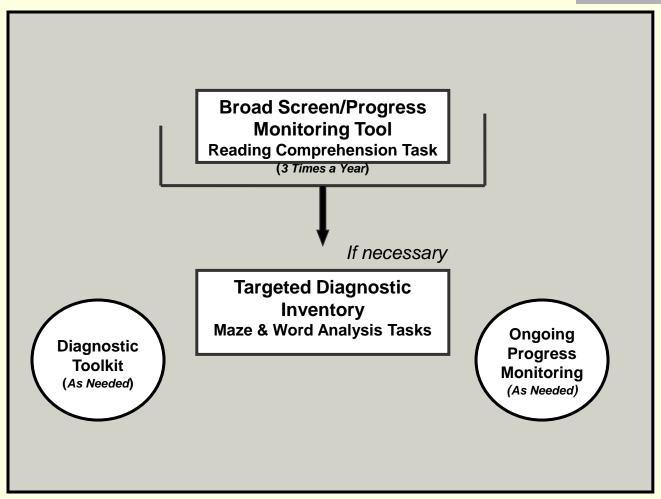
FCAT 2.0: Benchmarks x Grade

	Category 1	Category 2	Category 3	Category 4	Total
Grade					
3	4	6	3	1	14
4	4	6	3	1	14
5	4	6	3	2	15
6	4	5	3	2	14
7	4	5	3	2	14
8	4	5	3	2	14
9/10	4	5	3	2	14

Benchmark Conundrum

• Benchmark tests rarely have enough items to be reliable at the benchmark level. Besides, teaching to benchmarks (e.g., "the student will use context clues to determine meanings of unfamiliar words") results in fragmented skills. Teach to the standard(s) (e.g., "The student uses multiple strategies to develop grade appropriate vocabulary). Assess at aggregate levels (e.g., Reporting Categories).

Florida Assessments for Instruction in Reading: Grades 3-12 Model



FAIR 3-12 "Big Picture" Map

Type of Assessment	Name of Assessment
Broad Screen/Progress Monitoring Tool (BS/PMT) – Appropriate for 'All' students	• Reading Comprehension (RC)
Targeted Diagnostic Inventory (TDI) – "Some" students	• Maze • Word Analysis (WA)
Ongoing Progress Monitoring (OPM) – "Some" students	MazeORFRC
Informal Diagnostic Toolkit (Toolkit) – "Some" students	 Phonics Inventory Academic Word Inventory Lexile Passages Scaffolded Discussion Templates

FAIR: Purpose of Each 3-12 Assessment

RC Screen

Helps us identify students who may not be able to meet the grade level literacy standards at the end of the year as assessed by the FCAT without additional targeted literacy instruction.

Mazes

Helps us determine whether a student has more fundamental problems in the area of text reading efficiency and low level reading comprehension.

Word Analysis

Helps us learn more about a student's fundamental literacy skills--particularly those required to decode unfamiliar words and read accurately.

Assessment/Curriculum Decision Tree for Reading Improvement Grades 3-12 for the Florida Assessments for Instruction in Reading

If student's FSP score on Broad Screen = 85% or higher (Green Zone) (Box 1)

- Provide current levels of instruction in the high-level reasoning skills, vocabulary, and reading comprehension strategies required to meet grade level standards.
- What programs or strategies do we have available to address these needs?

If student's FSP score on Broad Screen = 84% or lower (Yellow or Red Zone) and...

Maze score is above 30th percentile (Box 2)

Provide enhanced instruction in the highlevel reasoning skills, vocabulary, and reading comprehension strategies required to meet grade level standards.

Maze score is below 30th percentile (Box 3)

Have student orally read a passage monitoring fluency (rate, accuracy, expression)

If the student reads fluently, then work on comprehension strategies.

 What programs or strategies do we have available to address these needs?

If the student struggles with reading fluently, then work on strategies, addressing fluency (rate and accuracy)

> What programs or strategies do we have available to address these needs?

WA score is above 30th percentile (Box 4)

Provide enhanced instruction in the highlevel reasoning skills, vocabulary, and reading comprehension strategies required to meet grade level standards.

WA score is below 30th percentile (Box 5)

Use Error Analysis Guide and Phonics Inventory to help identify specific areas of need.

If student struggles with Phonological or Orthographic errors provide instruction in basic phonics (letter/sound patterns, syllable types, etc.).

> What programs or strategies do we have available to address these needs?

If student struggles with morphological errors provide instruction in base/root words and prefixes/suffixes.

 What programs or strategies do we have available to address these needs? Assessment/Curriculum
Decision Tree for
Reading Improvement
for the Florida
Assessments for
Instruction in Reading

If a student's score falls in Box 1, then provide current levels of instruction in the high-level reasoning skills, vocabulary, and reading comprehension strategies required to meet grade level standards.

Common Profiles/Patterns of Performance

If a student's score falls in Box 1, then provide current levels of instruction in the high-level reasoning skills, vocabulary, and reading comprehension strategies required to meet grade level standards.

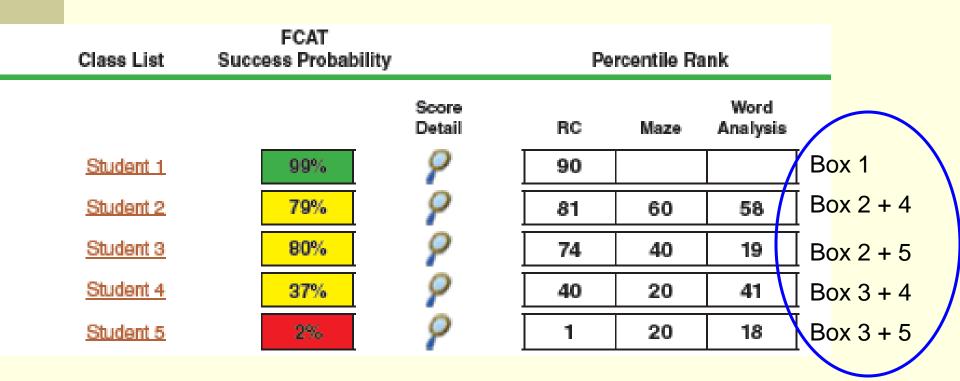
If a student's scores fall in Box 2 + 4, then provide enhanced instruction in the high-level reasoning skills, vocabulary, and reading comprehension strategies required to meet grade level standards.

If a student's scores fall in Box 2 + 5, then the student might have a specific weakness in spelling that does not impact reading; provide instruction in basic orthographic patterns and affixes/roots.

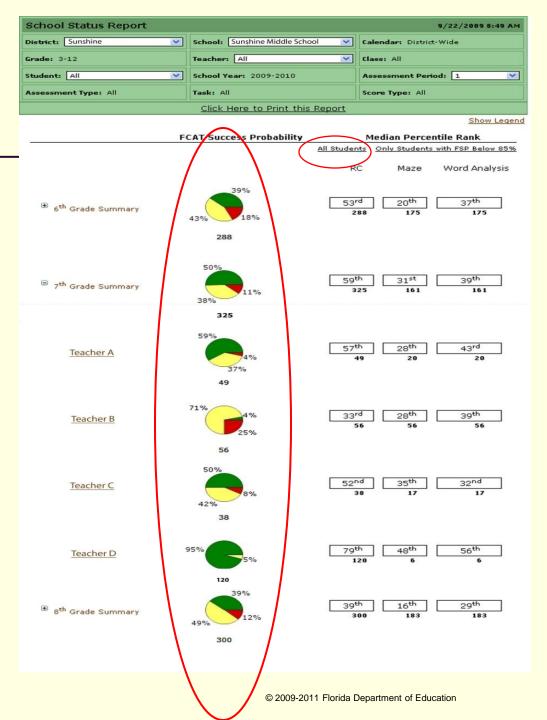
If a student's scores fall in Box 3 + 4, then work on text reading efficiency (comprehension and fluency); automaticity at the phrase, sentence and paragraph level, practice with repeated readings, teach using a comprehension focus.

If a student's score fall in Box 3 + 5, then provide intensive instruction in word study/recognition, work on applying decoding strategies to connected text to reinforce purpose of strategies, build fluency as accuracy increases and focus on comprehension strategies.

Common Profiles/Patterns of Performance on FAIR



School Status Report for FAIR



Questions to Answer Using the School Status Report

- Where should my resources be allocated (which grades and classes are struggling in certain areas)?
- What percentage of students is at each success zone in each class and grade?
- How many students need additional support?

Are these students clustered in one grade/one teacher?

What types of intervention do the students need

Where should I focus my Professional Development?

Are there any programs that I need to purchase and/or strategies I need to implement?

FAIR School Grade Summary Report – Table Form



View as Bar Graphs View as Tables Reading Comprehension (325 Students)

FCAT Success Probability		Lexile ® Measure			
Range	Number of Students	Percentage of Students	Range	Number of Students	Percentage of Students
0 - 15%	36	11%	100 - 149	0	0%
16 - 24%	10	3%	150 - 199	0	0%
25 - 34%	13	4%	200 - 249	8	2%
35 - 44%	8	2%	250 - 299	0	0%
45 - 54%	11	3%	300 - 349	0	0%
55 - 64%	12	3%	350 - 399	0	0%
65 - 74%	26	8%	400 - 449	0	0%
75 - 84%	45	13%	450 - 499	4	1 96
85 - 100% (Median = 85%)	164	50%	500 - 949	86	26%
			950 - 1800 (Median = 1080)	227	69%

Percentile Rank			
Range	Number of Students	Percentage of Students	
1st - 10th	29	896	
11 th - 20 th	19	5%	
21 st - 30 th	20	6%	
31 st - 40 th	32	9%	
41 st - 50 th	30	9%	
51 st - 60 th (Median = 59%)	41	12%	
61 st - 70 th	36	11%	
71 st - 80 th	54	16%	
81 st - 90 th	33	10%	
91 st - 99 th	31	9%	

Targeted Diagnostic Inventory

(16	Maze 1 Students)			
Percentile Rank				
Range	Number of Students	Percentage of Students		
1st - 10 th	15	9%		
11 th - 20 th	34	21%		
21 st - 30 th	30	18%		
31 st - 40 th (Median = 31%)	41	25%		
41 st - 50 th	20	12%		
51 st - 60 th	7	4%		
61 st - 70 th	10	6%		
71 st - 80 th	2	1 %		
81 st - 90 th	1	0%		
91 st - 99 th	1	0%		

	rd Analysis 1 Students)		
Percentile Rank			
Range	Number of Students	Percentage of Students	
1 st - 10th	29	18%	
11 th - 20 th	15	9%	
21 st - 30 th	17	10%	
31 st - 40 th (Median = 39%)	22	13%	
41 st - 50 th	25	15%	
51 st - 60 th	22	13%	
61 st - 70 th	2	1 %	
71 st - 80 th	12	7%	
81 st - 90 th	14	8%	
91 st - 99 th	3	196	

Classroom-based formative assessment

The strongest support for use of assessment to improve instruction comes from studies of classroom-based formative assessments

Characteristics

- Involves short-cycle, very frequent (daily) assessment Can take a variety of forms projects, discussion, questions, quizzes
- Has well defined targets
- Provides enough detail to suggest next steps
- Followed by appropriate feedback and instructional adj.
- Involves students in self and peer assessment

Examples of Classroom & Other data

- Curriculum based unit tests
- Class projects & classwork & homework
- Language proficiency data
- Attendance records
- Records from parent meetings & phone calls
- Classroom behavior charts
- Individualized educational plans (IEPs)
- Prior data from students' cumulative folders

General Screening info. at beginning of year On track Grade level, Classroom based formative assessments standards based progress monitoring At risk - receive further targeted screening Grade level, **Needs** support for Classroom based formative comprehension standards based assessments progress monitoring **Needs comprehensive intervention CBM- lower Further diagnostics** Classroom based formative level growth indices assessments

Important Considerations

- What further diagnostic information is needed to explain poor performance on the summative test and to guide instruction?
- Is your instruction aligned with a research-based, developmental sequence of knowledge and skills? [Learning Progressions]
- Assessments that cover the continuum of literacy skills inform instruction for struggling and accelerated students.

Enacting Design Characteristics

- Present students with "just-manageable difficulties"
- Identify a set of "enduring connected ideas"
- Make students' thinking visible to both teachers and students (formative assessment)
- Inculcate habits of mind to assess own progress
- Establish classrooms as learning communities

Literacy Knowledge & Skills

Knowledge

Language: Syntax,

semantics, phonology

Alphabetics: PA, LN/LS,

GPCs

Orthography/morphology

<u>Comprehension</u>: prior knowledge; inferencing

Skills

Abstract, academic vocab,

narrative/expository

PA linked to Letter-sounds;

identifying; word ID

Spelling; inflections &

derivations

Comprehension monitoring;

text structure

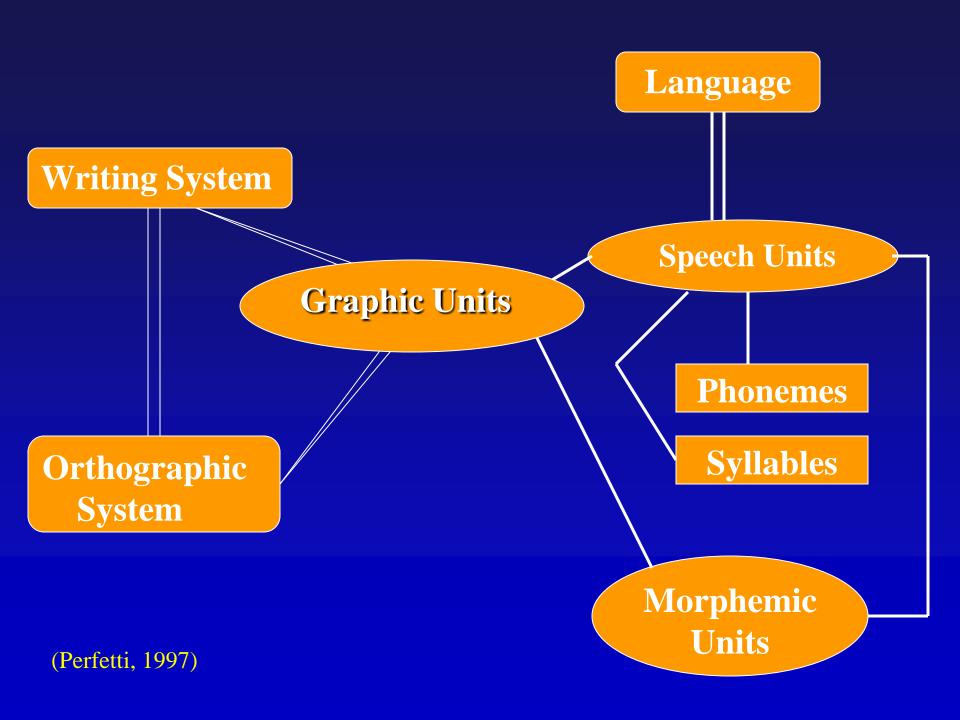
Foorman et al. 2011

Mapping Literacy Constructs to Measures

Measures	PreK	K	Gr 1	Gr 2	Gr 3-12
Print Concepts	X	(X)			
Phonological Awareness	X	X	X	(X)	
Alphabetic Knowledge (LN/LS; decoding; encoding/spelling)	X	X	X	X	X
Vocabulary (Expressive/Receptive)	X	X	X	X	X
Comprehension					
Listening Comprehension	X	X	(X)	(X)	
Reading Comprehension		(X)	X	X	X
Written response	name	X	X	X	X

Language and Literacy

- What is language and how does it relate to literacy? What is the "grain size" of the phonological-orthographic mapping?
- Is the mapping the same for all languages?
- Is it easier to learn to read and write in some languages compared to others?



Which is the least transparent?

- Arabic
- Danish
- English
- Finnish
- French
- German
- Hebrew

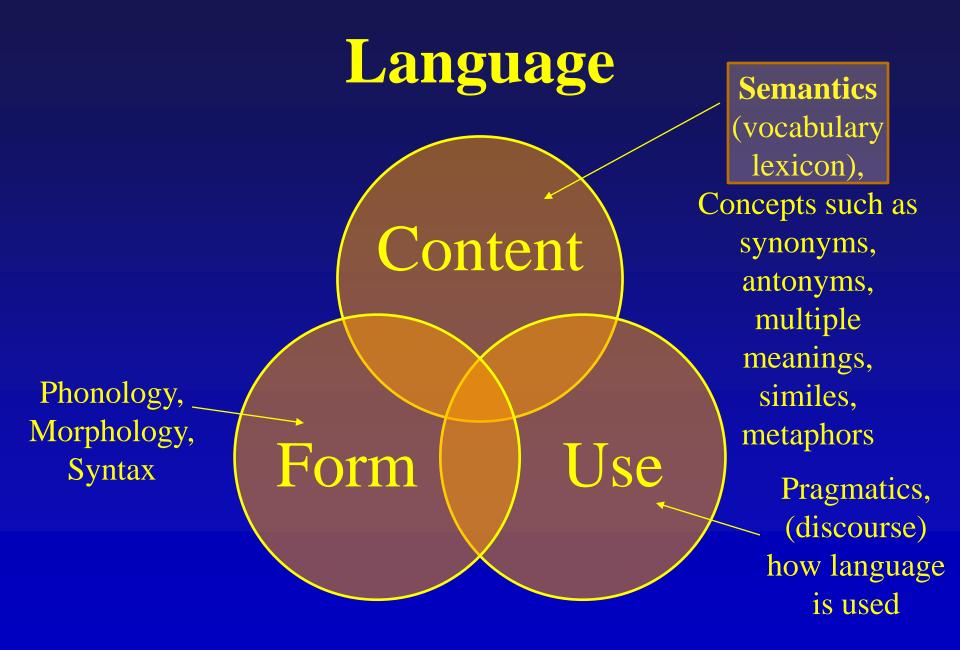
- Korean
- Italian
- Portuguese
- Spanish
- Serbo-Croatian
- Welsh

Poll on Transparency of Alphabetic Orthographies

Shallow

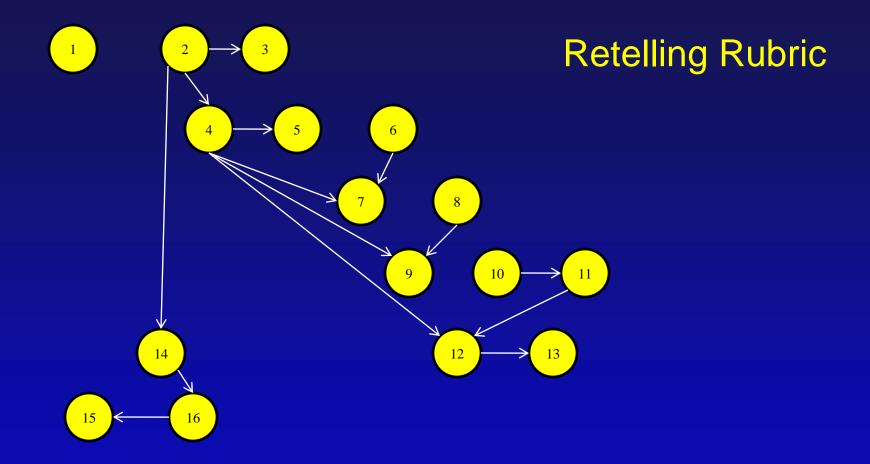
- Finnish, Welsh
- Korean, Italian, German, Serbo-Croatian
- Spanish, Portuguese
- French, Danish
- English
- Hebrew, Arabic

Deep



Learning to read & write entail...

- Normally developed language skills
- Knowledge of phonological structures
- Knowledge of how written units connect with spoken units (alphabetic principle)
- Phonological recoding and fluency
- Print exposure & writing instruction



Microstructure. Excerpt from *The Cat's Purr*, the aural story used in Year 1 (Kendeou et al. (2009): $1 \rightarrow$ Once upon a time, $2 \rightarrow$ Cat and Rat were best friends. $3 \rightarrow$ They lived in houses right next to each other. $4 \rightarrow$ Rat liked to copy cat. $5 \rightarrow$ Rat built a house that was just like Cat's. $6 \rightarrow$ Cat planted a tree by his house. $7 \rightarrow$ Rat planted one too. $8 \rightarrow$ Cat made a straw mat for his house, $9 \rightarrow$ and Rat made one too. $10 \rightarrow$ Once, Cat made a flute $11 \rightarrow$ and played sweet tunes. $12 \rightarrow$ "Let me play a tune, too," said Rat. $13 \rightarrow$ So, Cat let Rat play a tune. $14 \rightarrow$ Cat and Rat also worked together in their vegetable garden. $15 \rightarrow$ They planned to have a big party for their friends $16 \rightarrow$ when all of the vegetables were ready.

Phonemic Awareness



The ability to identify, think about, or manipulate the individual sounds (phonemes) in words

PA as Concept Development

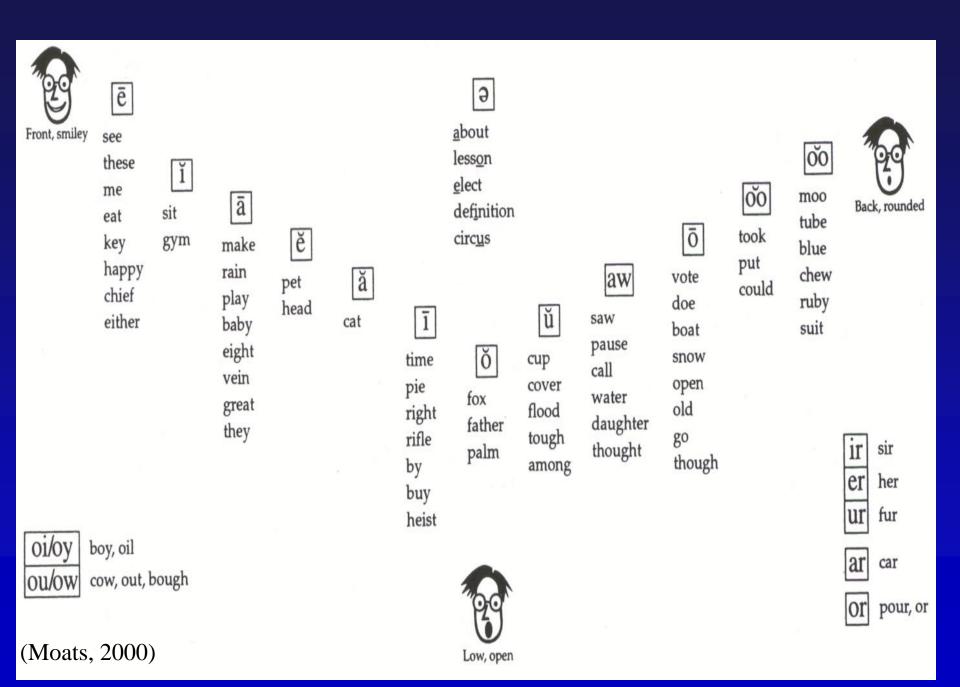
1. In K, identity-based teaching:
First sound of <u>sand</u> is /s/;
/s/ in <u>sand</u> and /s/ in <u>sit</u> are the same;
/s/ is represented by the letter <u>s</u>.

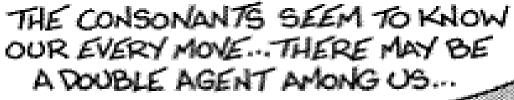
2. K-1 writing signals children's awareness of the alphabetic principle. E.g., a typical progression for first-grade spelling is:

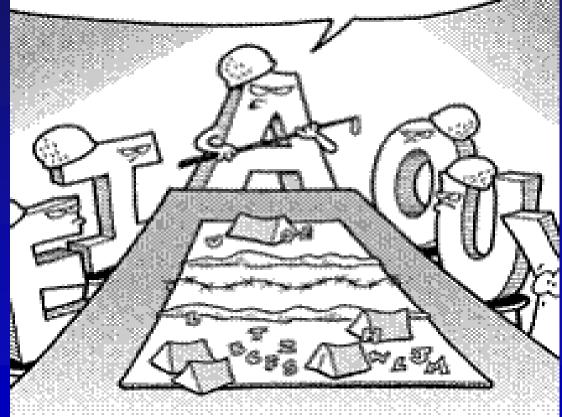
TGK, THIEK, TANGK, THINGK, THINK semiphonetic-phonetic-transitional-conventional

Alphabetic Skills in K-2

Kindergarten	 Print Awareness Letter name and sound knowledge Phoneme Blending Phoneme Deletion Word Parts/Initial Letter Sound Connection Initial Letter Sound Connection Final Word Building –Initial Consonants Word Building –Final Consonants Word Building –Medial Vowels
First Grade	 Letter Sound Knowledge Phoneme Blending Phoneme Deletion Initial Phoneme Deletion Final Word Building –Consonants Word Building –Vowels Word Building –CVC /CVCe Word Building –Blends
Second Grade	 Phoneme Deletion Initial Phoneme Deletion Final Word Building –Consonants Word Building –CVC /CVCe Word Building –Blends & Vowels Multisyllabic Word Reading







Formative Assessment: Encoding

Word Building

```
F_n (Make "fan"): assess CVC
```

```
F_t_ (Make "fate": Assess CVCe
```

```
Fa (Make "fast"): Assess CVCC
```

Six Syllable Types

- 1. Closed (CVC)
- 2. Open (CV)
- 3. Vowel-consonant-e (VCe)
- 4. Vowel team/Diphthongs
- R-controlled
- 6. Final stable

72.2% of syllables in words are comprised of Open and Closed Syllables (milk, fan-tas-tic)

(she, <u>si</u>-lent)

(bake, write)

(sea, train, boil)

(horn, fir, art)

(sta-ple, rid-dle,

man-age, pic-ture,

sta-tion)

(Carreker, 2005; Steere, Peck, & Kahn, 1998)

```
SAM- Age 9 - Grade 3.0
                     Verbal I'm 115
Weitten Expression
          (item)
         in mis
              Six room's
       in door Pooll wath
       you can go
that
    Connects) to the to
the Kenckin has a
washer.
 no pasmet, u furner of my hose.
```

Co-articulation

1. Assimilated vowels

park PRK

went WET

2. Flaps: Reduction of /t/ and /d/ phonemes to common phoneme.

letter LEDR

writer RIDR

3. /t/ & /d/ affected by /r/ in consonant blends

tack- track

tuck-truck

dagger-dragon

dunk-drunk

CHRAN for ?

JRAGN for ?

Spelling Errors

Orthographic Errors	Phonological Errors
 Letter Scrambling – Addition of letter already present e.g. lucidtity/lucidity 	1. Confusions, omission of vowel e.g. psn/person, drter/daughter
2. Letter Scrambling – Inversion of letter order e.g. exeragrate/exaggerate	3. Substitution of consonants e.g. stasun/station
4. Letter Scrambling – Deletion of letter occurring elsewhere e.g. physican/physician	2. Omission of consonants in blends e.g. ieln/island
5. Poor retention of low-frequency word patterns e.g. they said could	3. Substitution of vowels e.g. merred/married
6. Overreliance on surface phonetic spelling e.g. shun/tion	4. Omission of unaccented (schwa) vowels e.g. reltifh/relatives
	7. Omission or confusion of inflections –ed and -s e.g. takt/talked, dress/dresses

Language Curriculum

vce

prefixes

suffixes

plurals

Plurals:

crises

combining forms

scientific vocab.

(micro+meter)

(psych+ology)

roots

(after Marcia Henry, Unlocking Literacy, 2003)				
	Sounds		Syllable	Morpheme
Anglo- Saxon	Consonants: single blends digraphs	Vowels: short/long r-controlled teams diphthongs	6 types: closed open r-controlled c-le vowel team	compounds inflections

Romance

y=/l/

ch=/k/ chorus

ph=/f/ sphinx

(Latin)

Greek

What would you do instructionally for students with mostly morphological errors?

- Explicitly teach the rules for adding prefixes and suffixes
 - E.g., what happens to the y when you add a suffix such as '-ed' to a word like 'try'
- Morphology requires knowing what prefix or suffix to add AND knowing when to alter the base/root word
 - E.g., hope hoping
 - E.g., hop ——— hopping

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- Normally developed language skills
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- Phonological recoding and fluency
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Phonological Recoding

- Recodings of spellings into pronunciations allow words to move from a functional to an autonomous lexicon.
- With practice, words become high frequency, "sight words" that can be read without effort (i.e., automatically)
- Ask, "On what words is this student accurate or fluent?" not, "Is this student an accurate or fluent reader?"

Bud the Bee [TW = told word; SC = self-corrected word]

Bud was a bee. His mom named him Bud because he liked to hide in rosebuds.

He was small, so he could fit into the rose before it opened. It was a great hiding place for Bud.

One day, Bud was looking for a place to hide from his friends. He flew and flew but could not find a good place to hide. He had already used the hiding places around his home. At last, he found the best place to hide. He hid in a rose. He did not know that he went too far from

his home. He said to himself, "This is the best hiding place ever. No one will find me here."

He was right. No one found him. He sat there and sat there, but none of his friends even two came elose.

TW

Bud flew so far that day that he was very-tired. He fell asleep in the rose. When Bud woke up, he came out of the rose bud. It was dark. Bud was sad. No one found him. He was

Bud went back into the rose and cried. "I miss my room and my family," said Bud.

alone and did not know which way to go home.

"What will I do? I will have to stay here all night. Mom will not know where to find me."

Reading Vocabulary



Understanding word meanings to read text with fluency and comprehension

Background on Vocabulary

- Vocabulary knowledge (knowledge of the meanings of words) forms the basis for all reading comprehension
- If one fails to grasp the meanings of individual words in text, one will struggle to grasp the meaning of the text as a whole
- Word consciousness goes beyond vocabulary knowledge and enables the growth of vocabulary
- When individuals have generative knowledge about words, new words are acquired more easily
- Knowledge about the world of words begins early and is more a function of experience than of direct teaching

The Vocabulary Quartet & Levels of Knowing

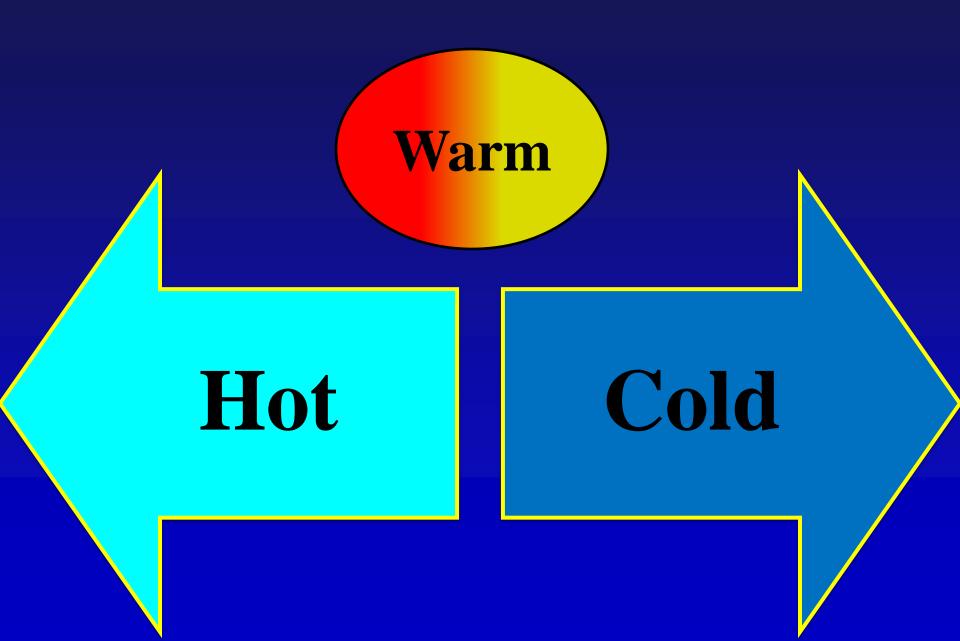
- Receptive vs.
 Expressive
- Written vs. oral mode
- Depth: Level of understanding
- Breadth: Amount of words in the lexicon

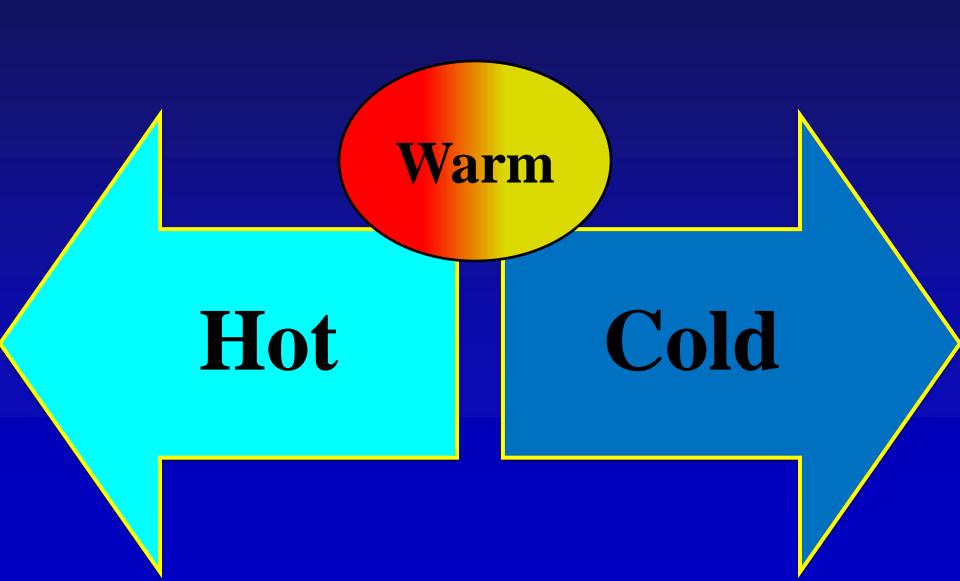


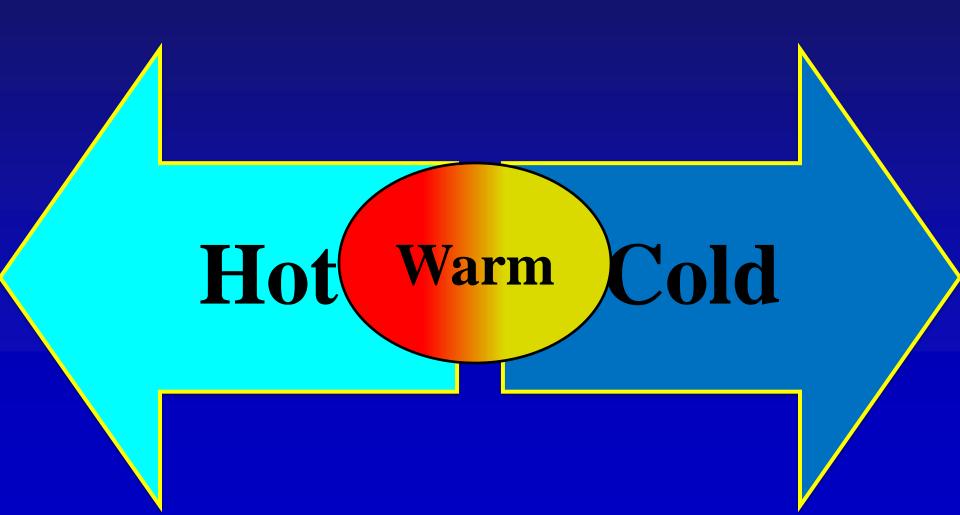
Dimensions of Word Knowledge

- Knowledge of word's spoken form (pronunciation)
- Written form (spelling)
- Grammatical behavior (syntactic/morphological features)
- Co-locational behavior (occurs with other words)
- Frequency (orally and in print)
- Stylistic register (e.g., academic language; informal)
- Conceptual meaning (antonyms, synonyms)
- Association with other words (inter-relatedness)









Formative Assessment: Morphology

- Her [query, quest*, question] for knowledge about how to cure sick people led her to become a doctor.
- Tell me a word that has *circulate* in it that fits in this sentence: "the heart's network of blood vessels is called the _____ system."

Syntactic Elements

• Connectives (temporal, causal, logical, additive, adversative)

Anaphora (pronoun reference)

Subject-verb agreement

Formative Assessment: Syntax

- Pizza is one of my favorite foods, (although, as, when) we only get to eat it on special occasions.
- Dolphins are light in weight and very strong and athletic. (Lastly, Consequently, Furthermore,) they can leap very high out of the water.
- She noticed a bird lying on the sidewalk (and, when, instead) she turned the corner.
- How would she be able to see her grandchildren if (she, we, they) lived so far away?
- There (has, have, had) to be some snacks left in the pantry for our party tonight.

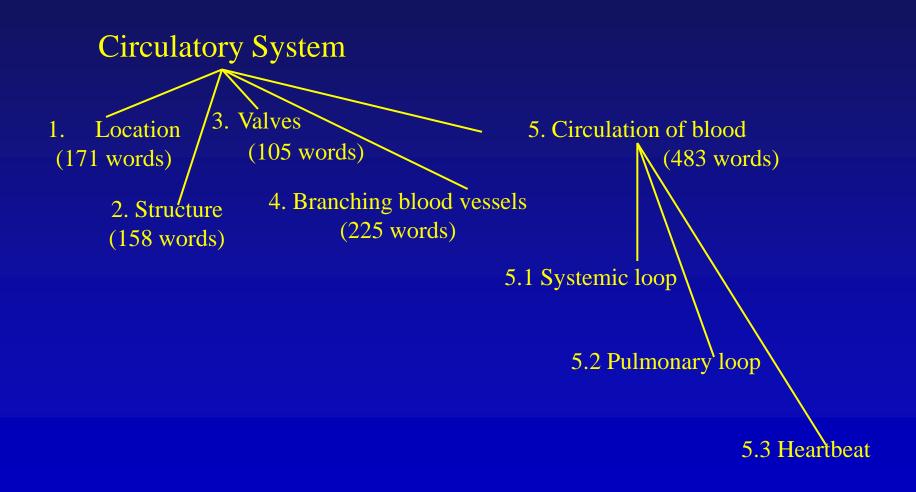
Levels of Text Processing

- Linguistic level: decoding graphic symbols
- <u>Semantic level</u>: word meanings, propositions integrated syntactically into coherent microstructure
- <u>Textbase</u>: meaning of the text—micro & macrostructure—as actually expressed by text

[Kintsch's Construction-integration model (Kintsch & Rawson, 2005) Van den Broek's Landscape model (van den Broek et al., 2004); Langston, Trabasso, & Magliano's (1998) model]

Macrostructure of Text on Functioning of Human Heart

(Kintsch & Rawson, 2005)



Formative Assessment: Summary

- Write a summary in 50 words or less of the expository passage on the circulatory system
- Compare your summary to that of simulated peers. Rate your summary and those of the simulated peers
- Go back and revise your summary

Writing Rubrics: Organization/Content

Organ./content	1 Beginning	2 Developing	3 Accomplished	4 Exemplary
Intro. paragraph	Argument unclear	Argument vaguely indicated	Argument clear	Clear & grabs attention
Body paragraph	No main idea No support	Some main ideas Weak support	Clear main ideas Good support	Main ideas smoothly connected Strong evidence
Conclusion	No summary No restating of argument	Some summary Repetitive restatement	Accurate summary New restatement	Commanding summary & restatement
Overall organ.	Sudden transitions; poor organ.	Some awkward transitions; some organization	Transitions present Ideas logically organized	Seamless transitions Logical, engaging organization
Overall content	Not original or convincing	Ideas somewhat reasonable	Ideas logical and convincing	Ideas insightful & illuminating

IES Practice Guide (2009, p. 21)

Writing Rubrics: Grammar & Usage

	1 Beginning	2 Developing	3 Accomplished	4 Exemplary
Paragraphing	No paragraph breaks or indentations	Inconsistent or illogical breaks, indentations	Consistent use of breaks/indentation	Consistent/accurate breaks
Capitalization	Many errors	Several errors	A few errors	Free of errors
Sentence Structure	Numerous fragments and/or run-on sentences	Occasional fragments and run-on sentences	Free of fragments and run-on sentences	No fragments or run-on sentences & uses varied sentence structures
Punctuation	Many errors	Several errors	A few errors	Free of errors

Writing Development (Wagner et al., 2011)

- CFA shows 5-factor model of writing development in 1st and 4th grades: 1) macro-organization; 2) productivity; 3) complexity; 4) spelling & punctuation; and 5) handwriting fluency
- Handwriting fluency correlated with written composition factors at both grades, but surprisingly strongly related to macro-organization and productivity in grade 4.

Disciplinary Literacy

	English	Mathematics	History	Science
text type	literary	informational or technical, symbolic, diagrams	expository, argumentative, persuasive	Informational or technical, diagrams
text structure	plot, setting, characterization, point of view, verse, rhyme	sequence, cause and effect, problem and solution, supporting ideas and evidence, graphical features	sequence, cause and effect, problem and solution, author's perspective supporting ideas and evidence, contrasting viewpoints, graphical features	sequence, cause and effect, problem and solution, supporting ideas and evidence, graphical features
author's craft	diction, dialogue, symbolism, imagery, irony, figurative language	rhetorical structure, examples, logical arguments	figurative language, rhetorical structure, examples, emotional appeal	rhetorical structure, examples, logical arguments

Performance Assessments: Appendix B of the Common Core

• Fiction: Students *summarize the development* of the morality of Tom Sawyer in Mark Twain's novel of the same name and analyze its connection to themes of accountability and authenticity by noting how it is conveyed *through characters*, *setting*, *and plot*. [RL.8.2]

Informational Text in History: • Students analyze the governmental structure of the United States and *support* their analysis by citing specific textual evidence from primary sources such as the Preamble and First Amendment of the U.S. Constitution as well as secondary sources such as Linda R. Monk's Words We Live By: Your Annotated Guide to the Constitution [RH.6–8.1]



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