



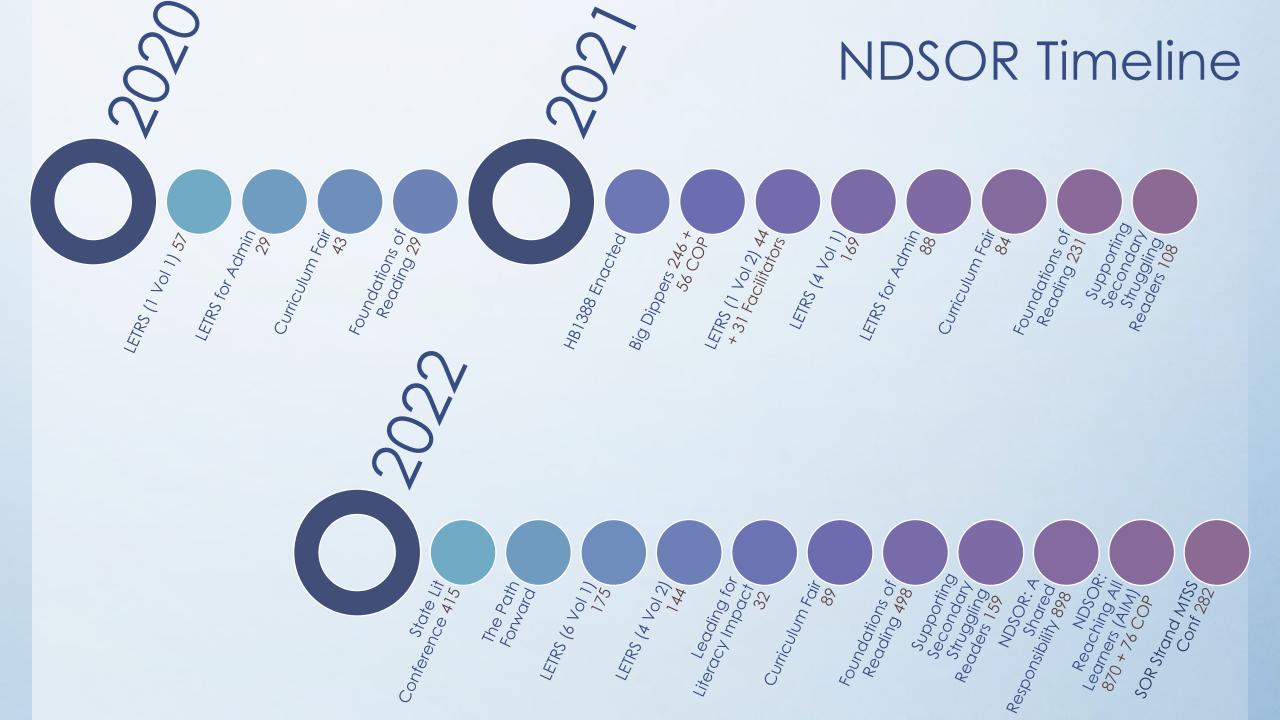
The Science of Reading Work in North Dakota

Kerri Whipple kerri.whipple@k12.nd.us 701.361.1392

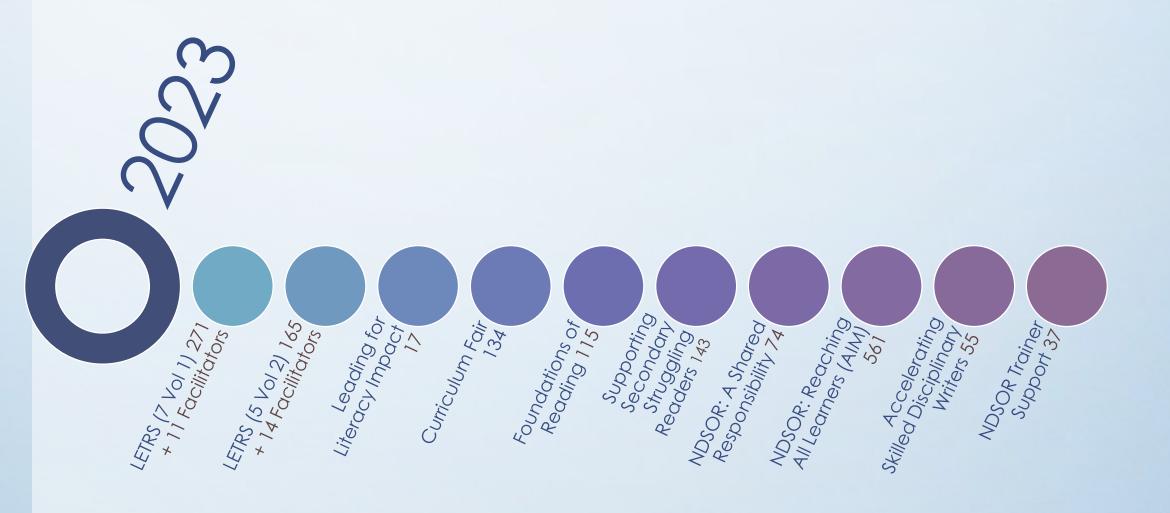
School District Trainings
Implementation of SoR in School Districts
ND Literacy Framework (KPS for Teachers of Reading)

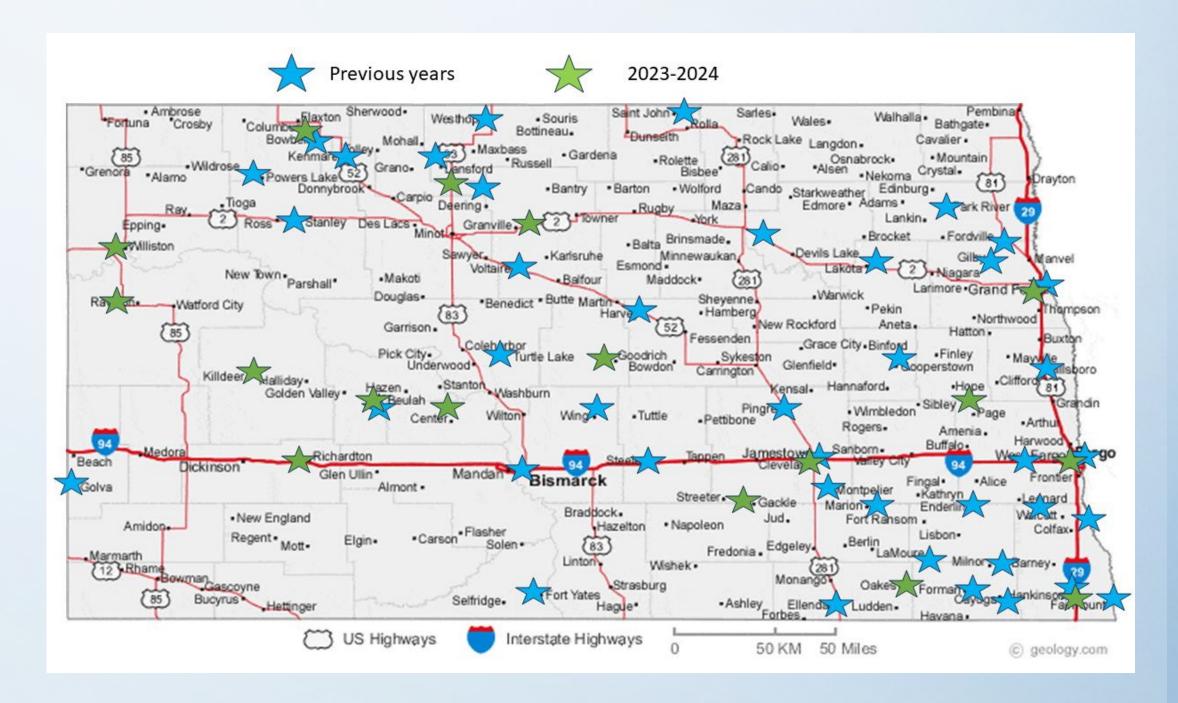
Current State

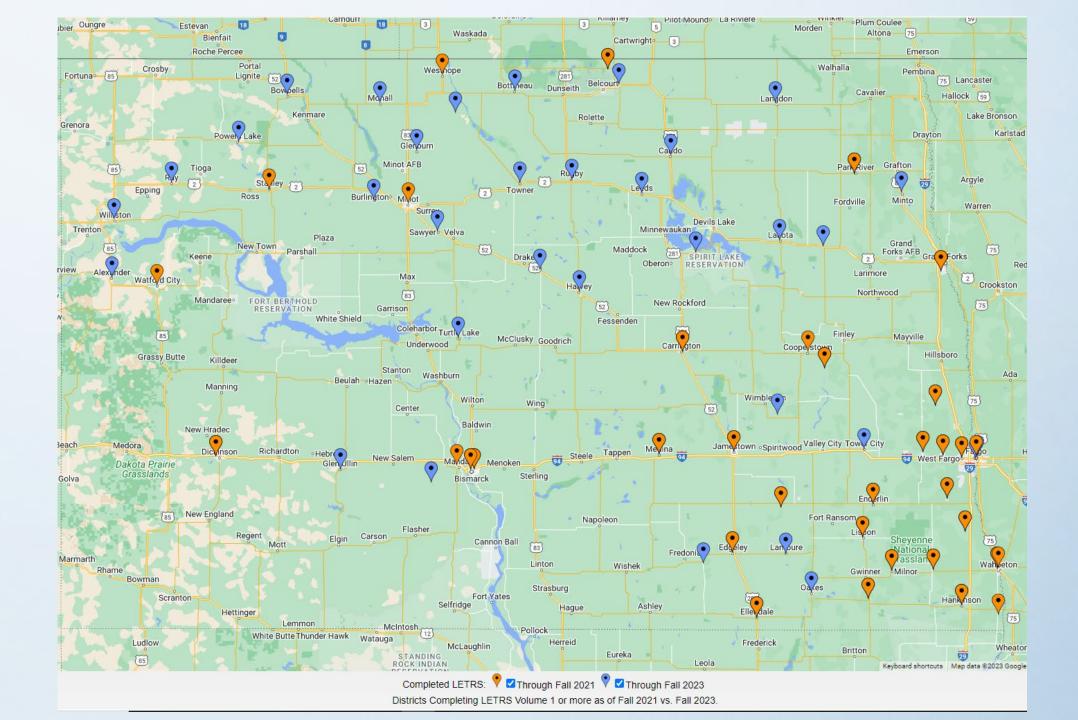




NDSOR Timeline

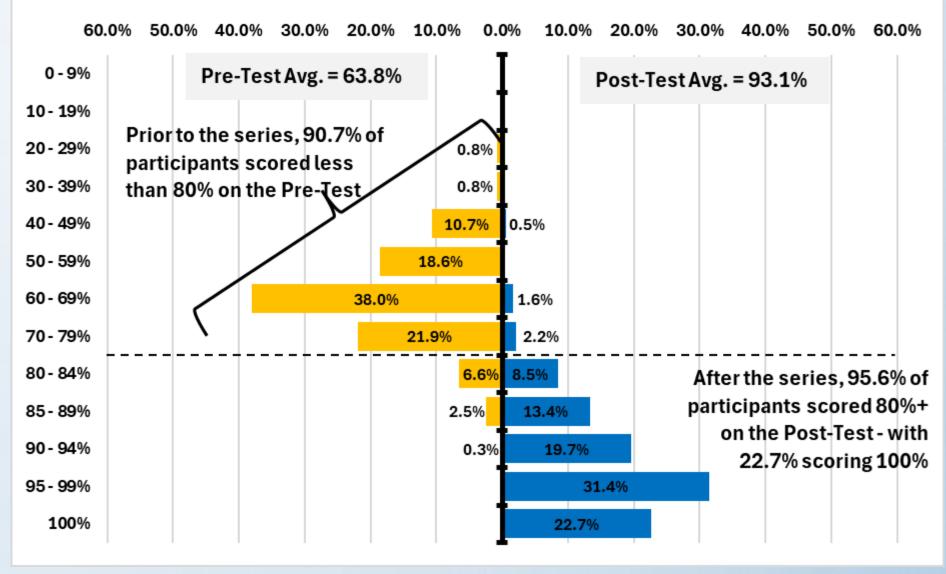






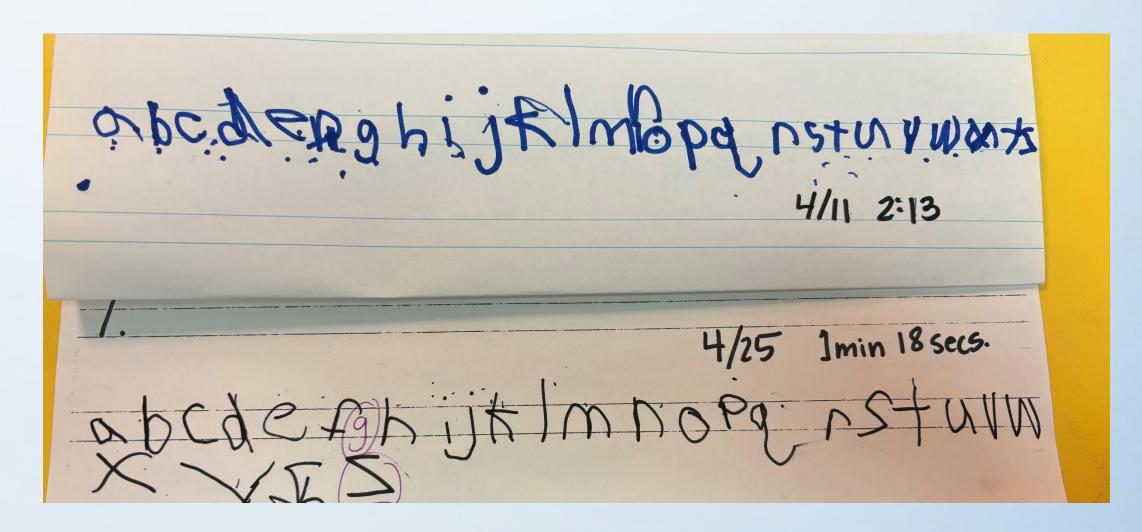
LETRS Unit 1-4 Pre and Post Test Score Distributions (Participants with Both Scores ONLY)

■ Pre-Test ■ Post-Test



n = 366

One Student's Growth - 2 weeks



How has LETRS changed your school?

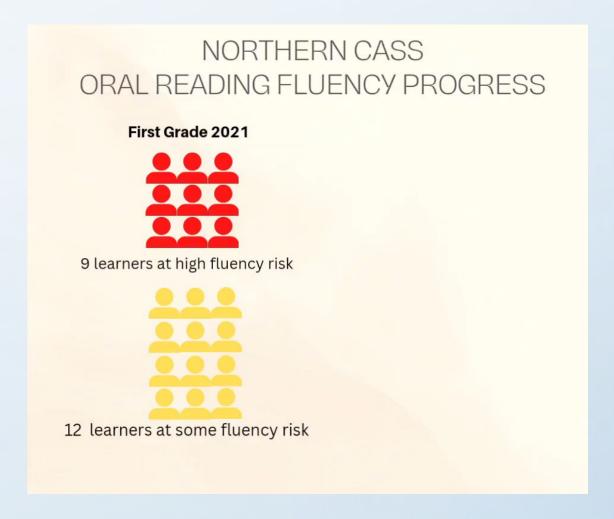


https://youtu.be/9nTiWmx_2KM

One School's Growth - 1 year

		Beginning of Year	Middle of Year	End of Year
	Well Below	36%	41%	21%
	Benchmark	37 Students	48 Students	24 Students
d	Below	16%	16%	11%
	Benchmark	16 Students	19 Students	12 Students
	At	30%	30%	42%
	Benchmark	31 Students	35 Students	48 Students
ĺ	Above	18%	13%	26%
	Benchmark	18 Students	15 Students	30 Students

One School's Growth – 1st to 2nd grade



One Parent's Comment

"Decodable books have been a game changer in terms of my child's self esteem and confidence as a reader."

-SoR Informed Parent

One teaching using HQIM

This program didn't take away my craft... it enhanced it in ways I never thought possible." Casey Mills, 5th Grade Educator,

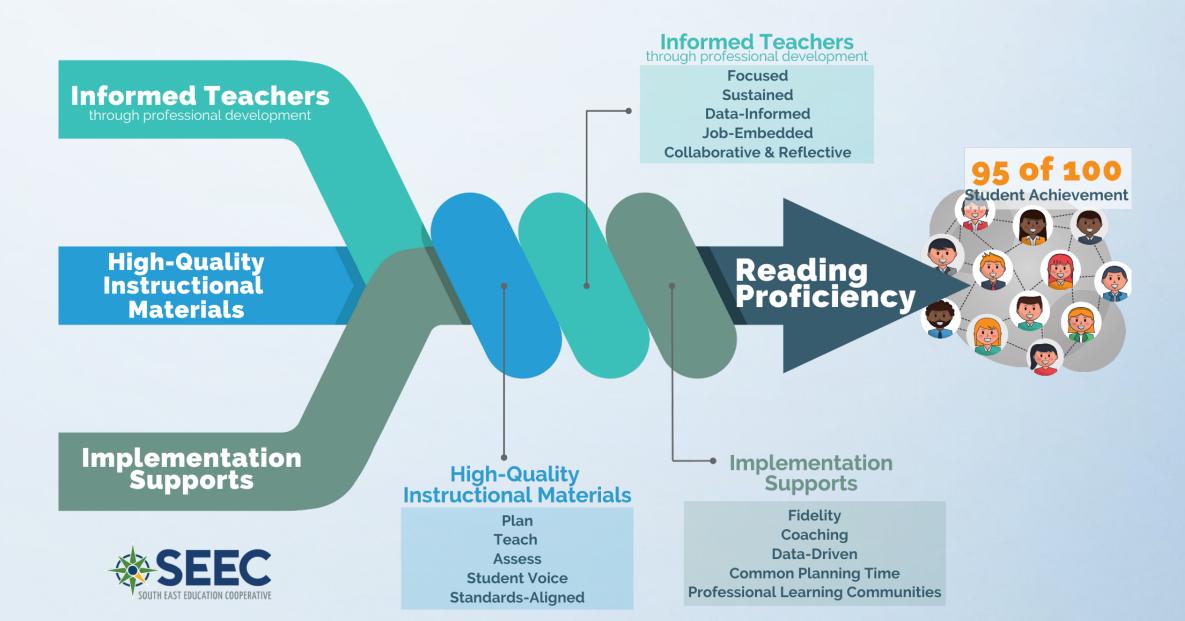
Westhope

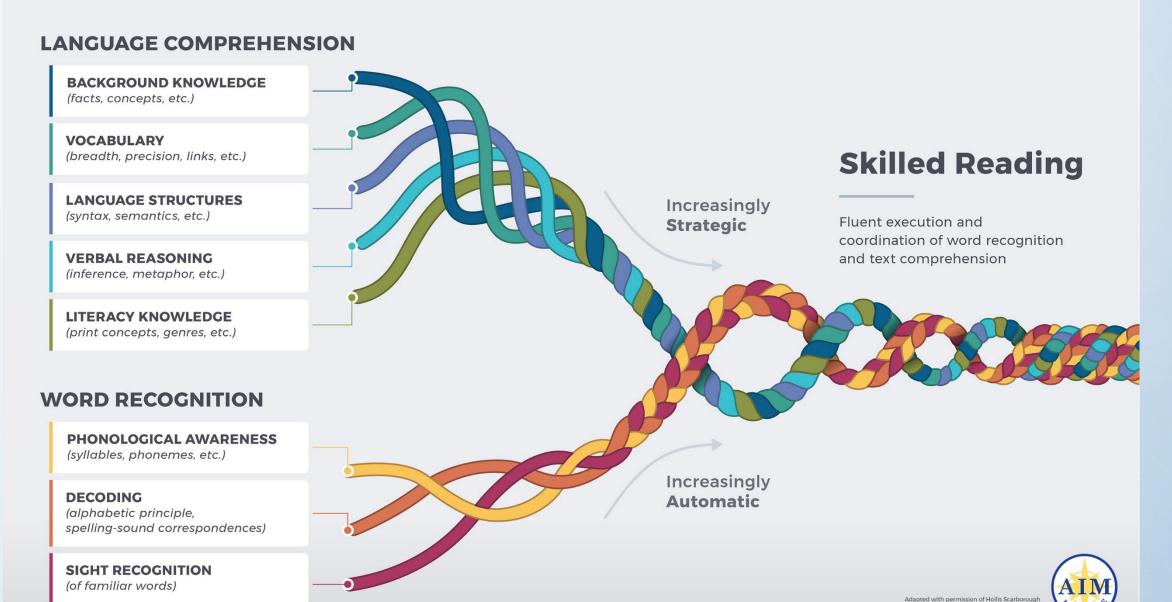
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Agenda



NDSOR Strands of Success

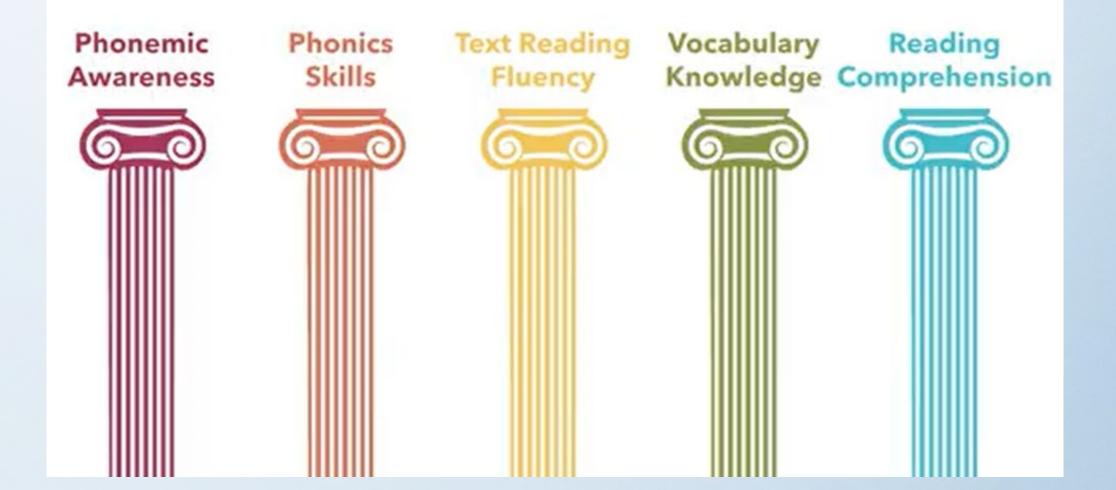


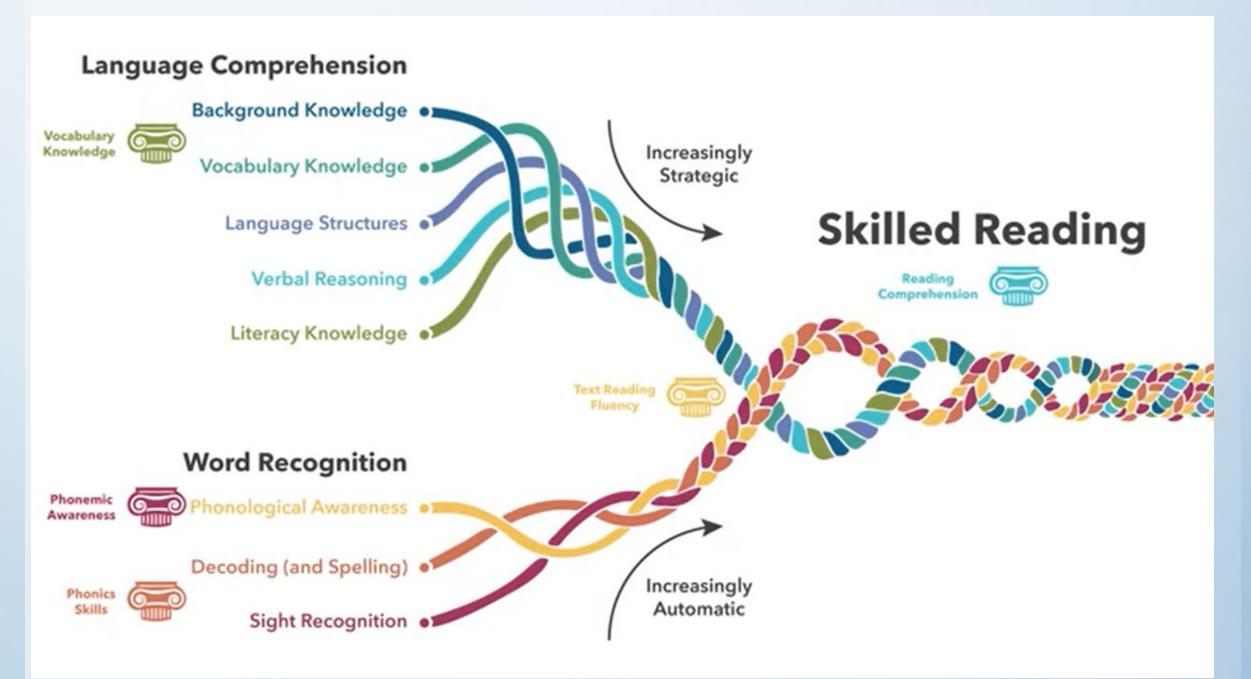


SOURCE: Scarborough, H. 2001. Connecting early language and literacy to later reading (dis)abilities: Evidence, theory, and practice. Pp. 97-110 in S. B. Neuman & D. K. Dickinson (Eds.) Handbook of Early Literacy. NY: Guilford Press.

Dr. Hollis Scarborough's Reading Rope, 2001

"BIG 5" Pillars of Reading





HB 1388 implemented in 15.1-21-12.1

SECTION 9. A new section to chapter 15.1-21 of the North Dakota Century Code is created and enacted as follows:

Reading curriculum - Content - Professional development - Reports to legislative management.

- Beginning July 1, 2022, each school district and nonpublic school shall ensure the portion of its curriculum which is related to reading:
 - a. <u>Is scientifically based</u> evidence based, and research based;
 - b. Focuses on:
 - (1) Phonemic awareness;
 - (2) Phonics;
 - (3) Fluency;
 - (4) Vocabulary; and
 - (5) Comprehension; and
 - c. Uses systematic direct instruction for students in kindergarten through grade three to ensure all students obtain necessary early reading skills.

HB 1231 implemented in 15.1-13-35.1

- The board shall ensure a candidate for teacher licensure who will be certified to be an early childhood or elementary teacher demonstrates competencies in beginning reading instruction based on scientifically and research-based best practices. Competencies must include the acquisition of knowledge of the essential components of beginning reading instruction, including:
 - a. Phonemic awareness;
 - b. Phonics;
 - c. Fluency;
 - d. Vocabulary;
 - e. Comprehension;
 - f. How to assess student reading ability; and
 - g. How to identify and correct reading difficulties;
 - h. Scientifically based, evidence-based, and research-based curricula; and
 - The use of systematic direct instruction to ensure all students obtain necessary early reading skills.

HB 1231 implemented in 15.1-13-35.1

- A prekindergarten, kindergarten, elementary, and special education initial teacher licensure candidate must provide evidence that the candidate meets the competency standards of the components under subsection 1.
- A prekindergarten through grade twelve and a secondary education An early childhood and elementary initial teacher licensure candidate must provide evidence that the candidate meets the competency standards of the components under subsection 1.
- 4. A teacher licensure candidate satisfies the requirements of this section if the candidate demonstrates the candidate has received training in competencies related to reading instruction from an accredited or approved program, or demonstrates mastery of the topics provided under subsection 1. The board may issue a provisional license for up to two years to a teacher licensure candidate who does not meet the requirements of this section.

School District Trainings

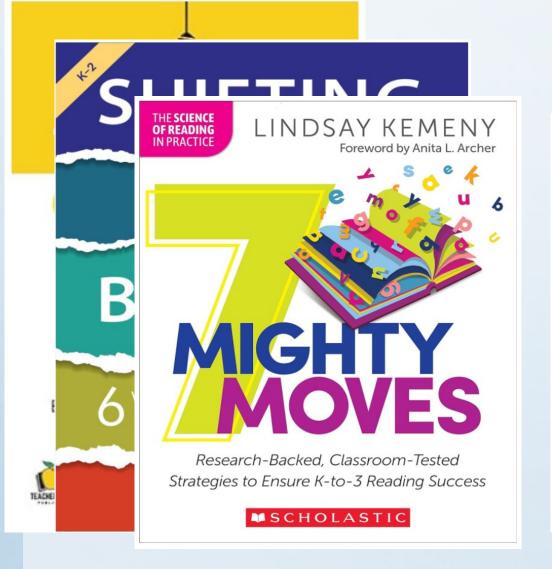
Implementation of SoR in School Districts

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What are the big changes?



NCTQ Teacher Prep Review, SOR Implementation = A

Program grades in North Dakota

			Adequate coverage of core components: Graded (Up to 12 points per component; 8 points for adequate coverage; 4 or more contrary practices results in letter grade deduction)						Support for a range of learners: Ungraded (Up to 8 points per group)			
School	Program Level	Grade	Phonemic Aware- ness	Phonics	Fluency	Vocab- ulary	Compre- hension	Count of Contrary Practices (out of 9)	Struggling readers	ELLs	Speakers of language varieties	
Dickinson State University	UG	А	Yes (10.33 pts)	Yes (11.33 pts)	Yes (10.5 pts)	Yes (10.67 pts)	Yes (10.5 pts)	1	4 pts	2 pts	0 pts	
Mayville State University	UG	F	No (5.46 pts)	Yes (8.75 pts)	No (5.81 pts)	No (6 pts)	No (5.75 pts)	3	4 pts	4 pts	0 pts	
Minot State University	UG	F	No (7.82 pts)	No (6.22 pts)	No (7 pts)	No (6.25 pts)	No (6.5 pts)	3	4 pts	0 pts	0 pts	
Sitting Bull College	UG	F	No (1 pt)	No (7.5 pts)	No (6.75 pts)	No (7.5 pts)	No (7.5 pts)	0	4 pts	0 pts	0 pts	
University of Mary	UG	С	No (4.45 pts)	Yes (9.27 pts)	No (7.53 pts)	Yes (9 pts)	Yes (8 pts)	0	2 pts	2 pts	0 pts	
University of North Dakota	UG	В	Yes (9.14 pts)	Yes (10.25 pts)	Yes (11 pts)	Yes (9.25 pts)	Yes (9.25 pts)	4	4 pts	4.75 pts	0 pts	
Valley City State University	UG	А	Yes (9 pts)	Yes (9 pts)	Yes (9 pts)	Yes (9 pts)	Yes (9 pts)	0	2.75 pts	6 pts	0 pts	

ND Literacy Framework aka Knowledge and Practice Standards for Teachers of Reading

NDESPB Framework

North Dakota Education Standards and Practices Reading Standards Adopted 1.8.2024.



Knowledge and Practice Standards for Teachers of Reading **Summary Table** Does Not Include Knowledge and Practice Examples Standard I: Foundations of Literacy Acquisition Understand the (5) language processing requirements of proficient reading and writing: phonological, orthographic, semantic, syntactic, discourse. 1.1 Understand that learning to read, for most people, requires explicit instruction. 1.2 Level 1 Understand the reciprocal relationships among phonemic awareness, decoding, word recognition, spelling, and vocabulary knowledge. 1.3 Identify and explain aspects of cognition and behavior that affect reading and writing development. 1.4 Level 2

Example Matrix from one EPP in ND

		R = cours	e readings			1 – topic is introduced				
		L = lectur	e		2 - topic is explored in a deep way					
		E = assign	nment and,	or evaluat	3 – topic is reviewed					
Found	Foundational Teacher Knowledge		experience							
									L	
Topic	Standard 1: Foundations of Literacy Acquisiton	EDUC 3	21	EDUC 32	23	EDUC 3	22	EDUC 4	30	
		RLEF	123	RELF	123	RLEF	123	RLEF		
	1.1 Understand the (5) language processing requirements of proficient reading and writing: phonological, orthographic, semantic, syntactic, discourse.									
	1.2 Understand that learning to read, for most people, requires explicit instruction.									
	1.3 Understand the reciprocal relationships among phonemic awareness, decoding, word recognition, spelling, and vocabulary knowledge.									
	1.4 Identify and explain aspects of cognition and behavior that affect reading and writing development.								Ī	
	1.5 Identify (and explain how) environmental, cultural, and social factors contribute to literacy development.									
	1.6 Explain major research findings regarding the contribution of linguistic and cognitive factors to the prediction of literacy outcomes.									
	1.7 Understand the most common intrinsic differences between good and poor readers (i.e., linguistic, cognitive, and neurobiological).									
	1.8 Know phases in the typical developmental progression of oral language, phoneme awareness, decoding skills, printed word recognition, spelling, reading fluency, reading comprehension, and written expression.									

Example Tool from MSJ



COURSE ALIGNMENT PLANNING TOOL

	Domain 1: Foundational Knowledge									
	Objectives	Course 1		Course 2		Course 3 RELF 123		Course 4		IDA KPS
1	Describe the key features of the definition of reading science.	RELF	123	RELF	123	KELF	123	RELF	123	
2	Interpret current NAEP data on student reading outcomes by subgroups.									1.5, 1.6
3	Explain the importance of research in education and the role it has in informing teaching.									1.6, 4A.1
4	Describe the differences between and the relationship between written and spoken language.									1.3, 1.9
5	Define and provide examples of each of the following language systems: orthography, etymology, phonetics, phonology, morphology, syntax, semantics, and pragmatics.									1.1, 1.9
3	State and apply the environmental, cultural, and social contributions to literacy development.									1.5
7	Explain the contribution of cognitive psychology on reading development and instruction, including how the brain learns to read and the underlying cognitive and linguistic processes that contribute to reading and differentiate good from struggling readers.									1.1, 1.3, 1.4, 1.7, 1.9
3	Demonstrate understanding of the Simple View of Reading and articulate appropriate use in guiding assessment and instruction.									1.6, 3.6
9	State the phases of typical reading and spelling development and how they impact assessment and instruction.									1.5, 1.8

IDA Knowledge and Practice Examples

Knowledge and Practice Standards for Teachers of Reading Includes Knowledge and Practice Examples								
STANDARD 1: FOUNDATIONS OF LITERACY ACQUISITION								
Substandard	Examples of Coursework Expectations							
1.1 Understand the (5) language processing requirements of proficient reading and writing: phonological, orthographic, semantic, syntactic, discourse.	Explain the domains of language (phonology, morphology, syntax, semantics, pragmatics) and their importance to proficient reading and writing.							
1.2 Understand that learning to read, for most people, requires explicit instruction.	 Explain how most people learn to read, how reading acquisition differs from language acquisition, and how writing systems differ from oral language systems. Know that the brain has to establish new neural circuits, linking language and visual regions, to become skilled at reading. 							
1.3 Understand the reciprocal relationships among phonemic awareness, decoding, word recognition, spelling, and vocabulary knowledge.	 Cite evidence and give practical examples showing how phonemic awareness affects attaining the alphabetic principle, decoding and spelling development, and storage and retrieval of spoken words, and that learning to read affects aspects of language processing, including the extent of phonemic awareness and precision of phonological representations of words in our mental dictionaries. 							
Identify and explain aspects of cognition and behavior that affect reading and writing development.	 Cite examples of tasks or tests that measure each general cognitive factor; explain how problems in these areas might be observed in classroom learning. Identify how the following aspects of cognition and behavior affect reading and writing development: attention, automaticity, executive function, verbal memory, processing speed, graphomotor control. 							

ND Literacy Framework aka Knowledge and Practice Standards for Teachers of Reading

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	Knowledge and Practice Standards for Teachers of Reading Summary Table Does Not Include Knowledge and Practice Examples
	Standard I: Foundations of Literacy Acquisition
1.1	Understand the (5) language processing requirements of proficient reading and writing: phonological, orthographic, semantic, syntactic, discourse.
	Level 1
1.2	Understand that learning to read, for most people, requires explicit instruction. Level 1
1.3	Understand the reciprocal relationships among phonemic awareness, decoding, word recognition, spelling, and vocabulary knowledge.
	Level 1
1.4	Identify and explain aspects of cognition and behavior that affect reading and writing development.

Example Matrix from one EPP in ND

		R = cours	e readings			1 – topic is introduced					
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Found	ational Teacher Knowledge	F = field e	xperience								
									_		
Topic	Standard 1: Foundations of Literacy Acquisiton	EDUC 3		EDUC 3		EDUC 3	EDUC 430				
		RLEF	123	RELF	123	RLEF	123	RLEF	+		
	1.1 Understand the (5) language processing requirements of										
	proficient reading and writing: phonological, orthographic,										
	semantic, syntactic, discourse.										
	1.2 Understand that learning to read, for most people, requires								+		
	explicit instruction.										
	· ·								_		
	1.3 Understand the reciprocal relationships among phonemic										
	awareness, decoding, word recognition, spelling, and vocabulary										
	knowledge.										
	1.4 Identify and explain aspects of cognition and behavior that								+		
	affect reading and writing development.										
	1.5 Identify (and explain how) environmental, cultural, and social								Т		
	factors contribute to literacy development.										
									_		
	1.6 Explain major research findings regarding the contribution of										
	linguistic and cognitive factors to the prediction of literacy										
	outcomes.								+		
	1.7 Understand the most common intrinsic differences between										
	good and poor readers (i.e., linguistic, cognitive, and										
	neurobiological).	-			-		-		+		
	1.8 Know phases in the typical developmental progression of oral language, phoneme awareness, decoding skills, printed word										
	recognition, spelling, reading fluency, reading comprehension, and										
	written expression.								+		

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Thank You!

