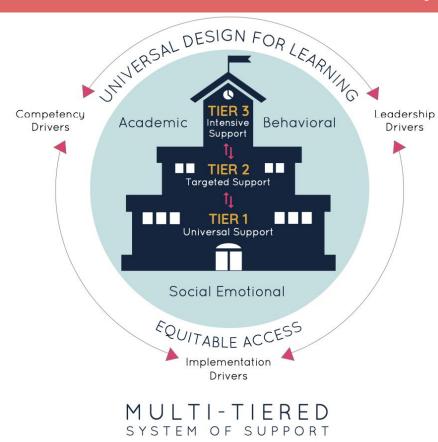


Middle of Year (MOY) Assessment Data

February 27, 2023

Dr. Margaret Adams, Superintendent
Kathryn Roberts, Interim Assistant Superintendent
Mary Andrews, Director of ELA
David Jewett, Director of Mathematics

Multi-Tiered System of Support (MTSS)



Through MTSS, we will proactively identify and address the strengths and needs of all students by optimizing:

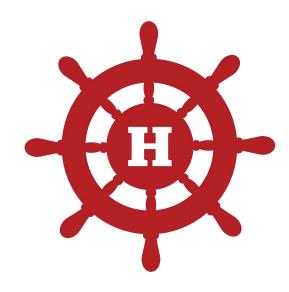
- data-driven decision-making
- progress monitoring
- evidence-based supports and strategies

MTSS Intervention Cycles & Next Steps

- Intervention cycles continue to be implemented and refined every 6-8 weeks.
- Data-informed instructional decisions through continued progress monitoring.
- Continued use of myPath personalized learning tool; expanded use of myPath into Gr. 7-8 Grades for on-grade level students.
- Continued implementation of math workshop model at the elementary level, emphasized in 2022-2023 professional development series.
- Pilots of new K-5 reading programs will conclude this month with plans for district-wide adoption of a research-based program in 2023-2024.
- Implement EOY diagnostic assessments and data meetings in late spring, with final data presentation to SC in June.

Progress Monitoring

EOY Diagnostic



Mathematics



iReady Math (Gr. K-6) Interpretation

- All grade levels are exceeding expectations for Typical Annual Growth
- Special education students at all grade levels are exceeding expectations for Typical Annual Growth
- Significant growth into the <u>On or Above Grade Level</u> category for all grades for both special education and non-special education subgroups.
- Significant decrease in the number of students in the <u>Two or More Grade</u> <u>Levels Below</u> category. This is particularly true for special education students.
- More growth in the <u>Numbers and Operations</u> and <u>Algebraic Thinking</u> domains for all students.
- Less growth in the <u>Geometry</u> and <u>Measurement and Data</u> domains for all students.

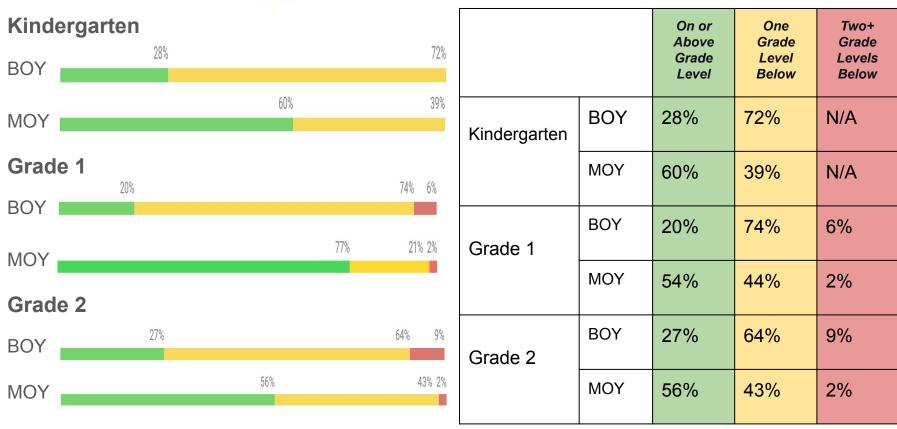


iReady Math (Gr. K-5) Progress Toward Annual Growth



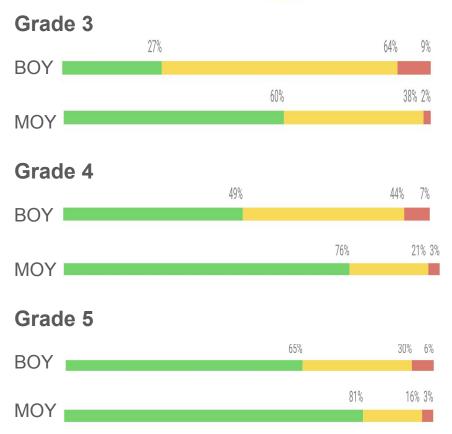


iReady Math (Gr. K-2) Placement Distribution





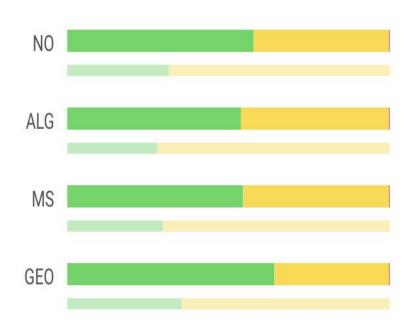
iReady Math (Gr. 3-5) Placement Distribution



		On or Above Grade Level	One Grade Level Below	Two+ Grade Levels Below
Grade 3	BOY	27%	64%	9%
	MOY	60%	38%	2%
Grade 4	BOY	49%	44%	7%
	MOY	76%	21%	3%
Grade 5	BOY	65%	30%	6%
	MOY	81%	16%	3%



Math Domain Comparison BOY and MOY



		On or Above Grade Level		One Grade Level Below		Two or More Grade Levels Below	
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	31%	58%	69%	42%	N/A	N/A	
Algebra & Algebraic Thinking	28%	54%	72%	46%	N/A	N/A	
Measurement & Data	30%	55%	70%	45%	N/A	N/A	
Geometry	35%	64%	65%	35%	N/A	N/A	

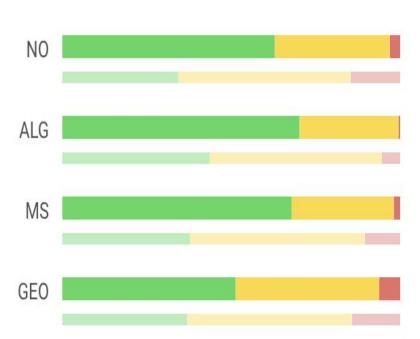


Grade 1 iReady Math Domain Comparison BOY and MOY



		On or Above Grade Level		One Grade Level Below		Two or More Grade Levels Below	
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	25%	60%	68%	38%	7%	1%	
Algebra & Algebraic Thinking	39%	73%	54%	24%	6%	3%	
Measurement & Data	29%	58%	58%	39%	13%	3%	
Geometry	28%	50%	62%	45%	9%	5%	

Grade 2 iReady Math Domain Comparison BOY and MOY



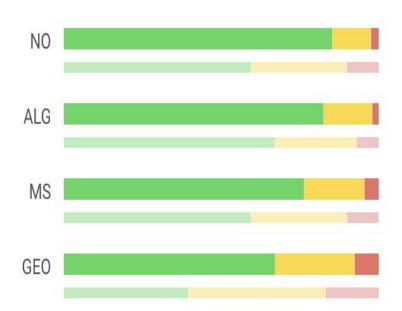
	On or Above Grade Level		One Grade Level Below		Two or More Grade Levels Below	
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY
Numbers & Operations	43%	63%	51%	34%	15%	3%
Algebra & Algebraic Thinking	44%	70%	51%	29%	5%	0%
Measurement & Data	38%	68%	52%	30%	10%	2%
Geometry	37%	51%	49%	42%	14%	6%

Grade 3 iReady Math Domain Comparison BOY and MOY



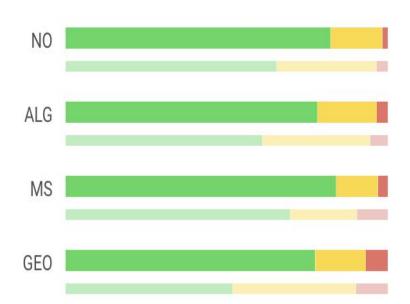
	On or Above Grade Level		One Grade Level Below		Two or More Grade Levels Below	
DOMAIN	воу	MOY	воу	MOY	воу	MOY
Numbers & Operations	24%	49%	66%	49%	9%	2%
Algebra & Algebraic Thinking	35%	76%	60%	23%	6%	1%
Measurement & Data	54%	72%	38%	26%	8%	2%
Geometry	30%	52%	59%	45%	11%	3%

Grade 4 iReady Math Domain Comparison BOY and MOY



		On or Above Grade Level		One Grade Level Below		Two or More Grade Levels Below	
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	59%	85%	30%	12%	10%	2%	
Algebra & Algebraic Thinking	67%	83%	26%	15%	7%	2%	
Measurement & Data	59%	76%	30%	19%	10%	5%	
Geometry	40%	67%	25%	44%	17%	8%	

Grade 5 iReady Math Domain Comparison BOY and MOY



		On or Above Grade Level		One Grade Level Below		Two or More Grade Levels Below	
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	66%	82%	31%	16%	3%	2%	
Algebra & Algebraic Thinking	61%	78%	33%	18%	5%	3%	
Measurement & Data	70%	84%	21%	13%	10%	3%	
Geometry	52%	77%	38%	16%	10%	7%	



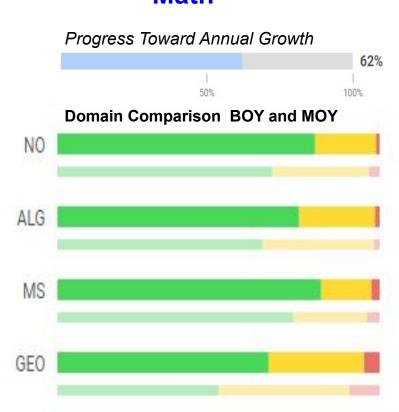
iReady Math (Gr. 6) Placement Distribution



		On or Above Grade Level	One Grade Level Below	Two+ Grade Levels Below
Grade 6	воу	63%	34%	3%
	MOY	80%	19%	1%

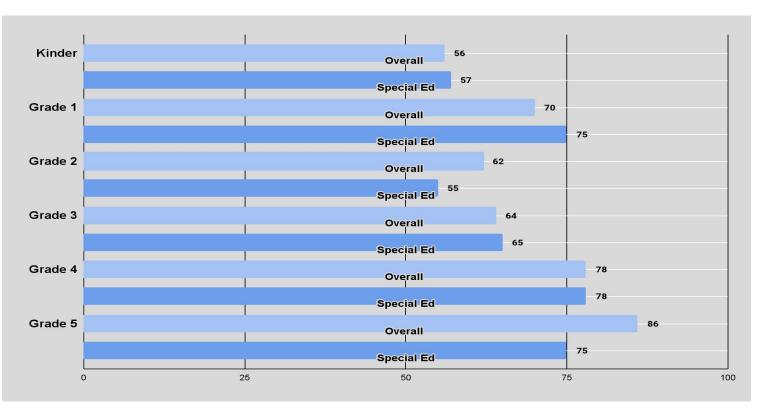


Grade 6 iReady Math



		On or Above Grade Level		One Grade Level Below		Two or More Grade Levels Below	
DOMAIN	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	67%	80%	30%	19%	3%	1%	
Algebra & Algebraic Thinking	64%	75%	34%	23%	2%	2%	
Measurement & Data	73%	82%	23%	16%	4%	3%	
Geometry	50%	66%	41%	30%	9%	5%	

iReady Math (Gr. K-5 Special Ed) Progress Toward Annual Growth





iReady Math (Gr. K-2 Special Education) Placement Distribution



		On or Above Grade Level	One Grade Level Below	Two+ Grade Levels Below
Kindergarten	MOY	48%	48%	3%
	BOY	13%	87%	NA%
Grade 1	MOY	31%	60%	10%
	BOY	10%	64%	26%
Grade 2	MOY	27%	66%	7%
	ВОҮ	20%	51%	29%



iReady Math (Gr. 3-5 Special Education) Placement Distribution

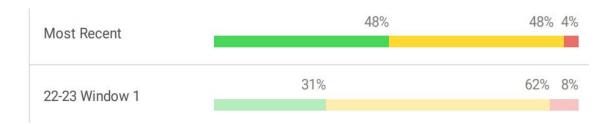


		On or Above Grade Level	One Grade Level Below	Two+ Grade Levels Below
Grade 3	MOY	34%	62%	4%
	BOY	12%	66%	22%
Grade 4	MOY	49%	40%	11%
	BOY	25%	51%	25%
Grade 5	MOY	41%	43%	16%
	BOY	32%	43%	25%



iReady Math (Gr. 6 Special Education) Placement Distribution

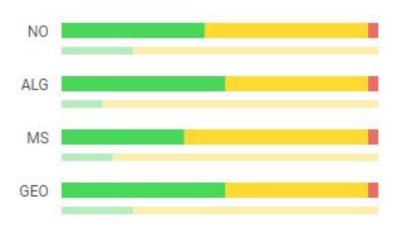
Grade 6



		On or Above Grade Level	One Grade Level Below	Two+ Grade Levels Below
Grade 6	MOY	48%	48%	4%
	BOY	31%	62%	8%



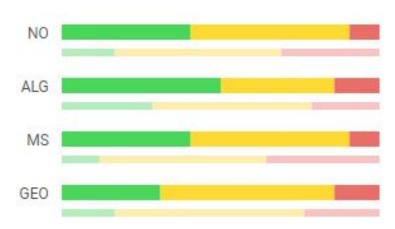
Math Domain Comparison BOY and MOY



	On or a Grade			Grade Below	Two or More Grade Levels Below		
<u>DOMAIN</u>	BOY MOY		воу	MOY	воу	MOY	
Numbers & Operations	23%	45%	77%	52%	N/A	3%	
Algebra & Algebraic Thinking	13%	52%	87%	45%	N/A	3%	
Measurement & Data	16%	39%	84%	54%	N/A	3%	
Geometry	23%	52%	77%	45%	N/A	3%	

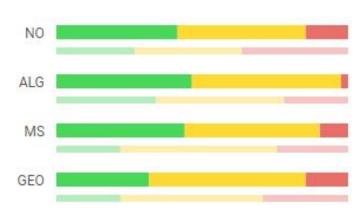


Grade 1 iReady Math Domain Comparison BOY and MOY



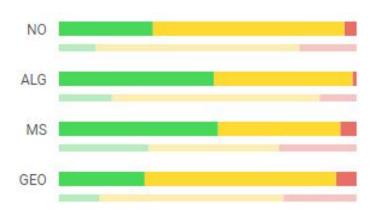
	On or A Grade			Grade Below	Two or More Grade Levels Below			
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY		
Numbers & Operations	17%	40%	52%	50%	31%	10%		
Algebra & Algebraic Thinking	29%	50%	50%	36%	21%	14%		
Measurement & Data	12%	40%	52%	50%	36%	10%		
Geometry	31%	17%	60%	55%	24%	14%		

Grade 2 iReady Math Domain Comparison BOY and MOY



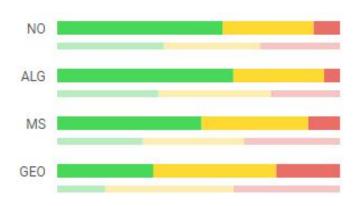
	On or A Grade			Grade Below	Two or More Grade Levels Below		
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	27%	41%	37%	44%	37%	15%	
Algebra & Algebraic Thinking	34%	46%	44%	51%	22%	2%	
Measurement & Data	22%	44%	46%	54%	24%	10%	
Geometry	22%	32%	49%	54%	29%	15%	

Grade 3 iReady Math Domain Comparison BOY and MOY



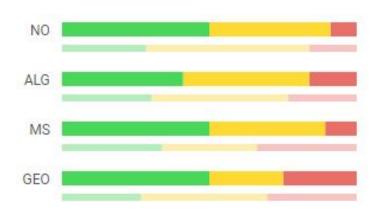
	On or a Grade	Above Level		Grade Below	Two or More Grade Levels Below		
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	12%	32%	68%	64%	19%	4%	
Algebra & Algebraic Thinking	18%	52%	70%	47%	12%	1%	
Measurement & Data	30%	53%	44%	41%	26%	5%	
Geometry	14%	29%	62%	64%	25%	7%	

Grade 4 iReady Math Domain Comparison BOY and MOY



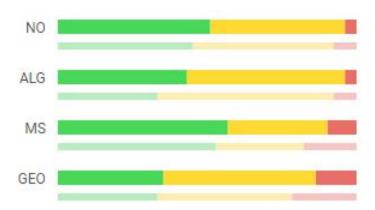
	On or A Grade			Grade Below	Two or More Grade Levels Below		
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	38%	58%	34%	32%	28%	9%	
Algebra & Algebraic Thinking	36%	62%	32%	40%	25%	6%	
Measurement & Data	30%	51%	38%	36%	34%	34% 11%	
Geometry	17%	34%	45%	43%	38%	23%	

Grade 5 iReady Math Domain Comparison BOY and MOY



		Above Level		Grade Below	Two or More Grade Levels Below		
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY	
Numbers & Operations	29%	50%	55%	41%	16%	9%	
Algebra & Algebraic Thinking	30%	41%	46%	43%	23%	16%	
Measurement & Data	34%	50%	32%	39%	34%	11%	
Geometry	27%	50%	43%	25%	30%	25%	

Grade 6 iReady Math Domain Comparison BOY and MOY



	On or a Grade							
<u>DOMAIN</u>	воу	MOY	воу	MOY	воу	MOY		
Numbers & Operations	45%	51%	47%	45%	8%	4%		
Algebra & Algebraic Thinking	33%	43%	59%	53%	8%	4%		
Measurement & Data	53%	57%	29%	33%	18%	10%		
Geometry	33%	35%	45%	51%	22%	14%		



ELA - Reading

Hingham K-5 MTSS Data Sources (ELA)

Grade	ELA Data Sources
K	Acadience (DIBELS): FSF, LNF, PSF, NWF-CLS, NWF-WWR
	RAN
1	Acadience (DIBELS): SF, NWF-CLS, NWF-WWR, LNF, ORF, WCPM, Retell: Quantity/Quality
	Primary Spelling Inventory (PSI)
	RAN
2	Acadience (DIBELS): SF, NWF-CLS, NWF-WWR, LNF, ORF, WCPM, Retell: Quantity/Quality
	Beginning/Advanced Decoding Survey
	Primary Spelling Inventory (PSI)
	RAN

Grade	ELA Data Sources
3	Acadience (DIBELS): ORF: WCPM, Accuracy, Retell: Quantity/Quality Beginning/Advanced Decoding Survey Elementary Spelling Inventory ELA MCAS
4	Acadience (DIBELS): ORF: WCPM, Accuracy, Retell: Quantity/Quality (selected students) Beginning/Advanced Decoding Survey ELA MCAS iReady Diagnostic
5	Acadience (DIBELS): ORF: WCPM, Accuracy, Retell: Quantity/Quality (selected students) Beginning/Advanced Decoding Survey ELA MCAS iReady Diagnostic

Grade 1 Data Sheet Sample by MOY

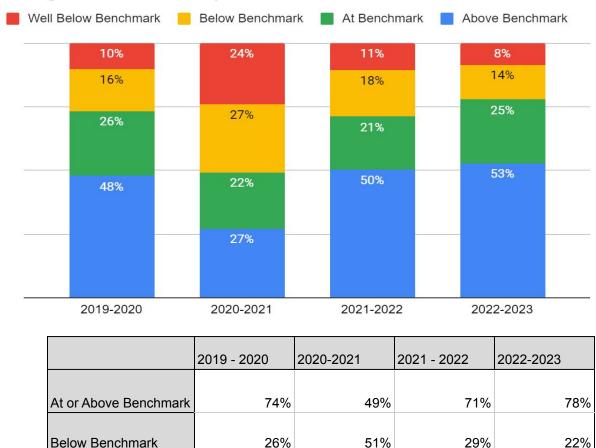
			FALL	DATA E	BM			FALL	PM									Win	iter B <i>l</i>	M		h
LNF(45)	PSF (40/25)	NWF CLS (27/18)	NWF WWR (1/0)	RAN Objects/Letters Total Time (<138/>165)	WRF Word Reading Fluency (12/7)	Sight Words (33 KDG)	Spelling Inventory (<10 at risk)	LNF (>40)	PSF (40)	NWF CLS (43 BM II)	NWF WWR (8 BM II)	WRF (12/7 BM I)	KDG Sight Words (32)	PSF (40-46) *BM Change (Risk <24)	NWF CLS (43-58) (Risk <33)	NWF WWR (8-16) (Risk <3)	ORF (23-33) (Risk <16)	Accuracy (78-85) (Risk <68)	Retell	Sight Words Units 1-3 (min 68)	Spelling Inventory (36-49 feature points)	SPIStage
58	40	20	4	104	13	27	30/6		43	21	9				53	14	26	74		55	34/6	digrah/VCE
73	46	139	46	73	70	33	49/16								143	50	113	99	2	68	51/21	long vowel
54	46	33	9	80	27	33	40/10								73	25	70	95	1	64	44/15	long vowels
65	30	47	12	87	13	26	39/8		46						69	22	41	89	3	65	37/8	vowel teams
32	31	18	0	135	4	7	25/5	50	42	13	0	2		50	25	1	14	64		*26	32/6	digraph/blend
51	41	37	10	82	20	30	36/8								86	28	70	97	2	66	41/13	vowel teams
30	42	17	3	159	9	26	33/4	51	38	27	6	21		54	41	13	32	84	1	65	37/8	long vowels
49	33	8	0	119	0	23	29/5		33	21	6	6		58	44	11	16	67		22	31/8	digraph VT
29	21	9	1	162	3	15	17/3	43	35	15	1	6		25	19	0	10	59		17	27/5	short/digraph
50	32	32	1	107	16	32	38/8		52	57	17				87	28	44	90	2	68	40/11	long vowels
71	41	103	38	106	65	33	43/14					5			143	50	125	99	1	68	51/20	other vowels
34	40	19	3	133	16	30	35/7	70	50	55	19				85	29	75	99	1	67	41/13	long vowels

Grades K-2 Acadience (DIBELS) Takeaways...

- Longitudinal Data from the 2019-2020 school year through the current school year indicates that our robust MTSS model for elementary reading has resulted in scores that are close to our pre-Covid MOY data in Grades 1 and 2, and above our pre-Covid MOY data in kindergarten.
- In following the cohort of kindergarteners who started during the "Covid" year (2020-21) through the current school year (2022-23), it is evident that the MTSS interventions in place are successfully remediating pandemic learning loss.
- Even with the higher performance level score ranges for MOY assessments, more than ¾ of this year's kindergartners continue to place at or above benchmark for the Acadience (DIBELS) composite score.
- Almost ³/₄ of HPS current first graders placed at or above benchmark for the MOY Acadience (DIBELS) composite score despite the increased benchmark cut-offs.
- Even with the higher performance level score ranges for MOY assessments, more than 80% of this year's second graders continue to place at or above benchmark for the Acadience (DIBELS) composite score.
- The average Acadience (DIBELS) composite scores for all grades K-2 fell in the "above benchmark" range on both the BOY and MOY assessments.

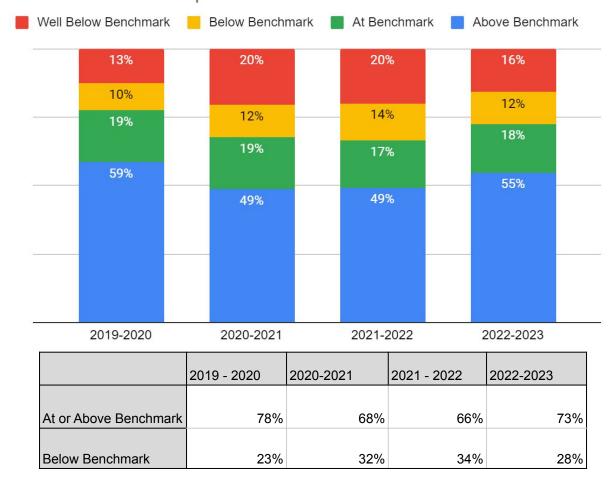
Acadience/DIBELS (Early Literacy Skills)

Kindergarten MOY Composite Scores: 2019 - 2023



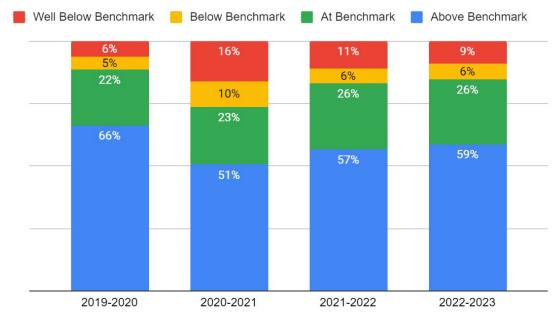
Acadience/DIBELS (Early Literacy Skills)

1st Grade MOY Composite Scores: 2019 - 2023



Acadience/DIBELS (Early Literacy Skills)

Grade 2 MOY Composite Scores: 2019 - 2023



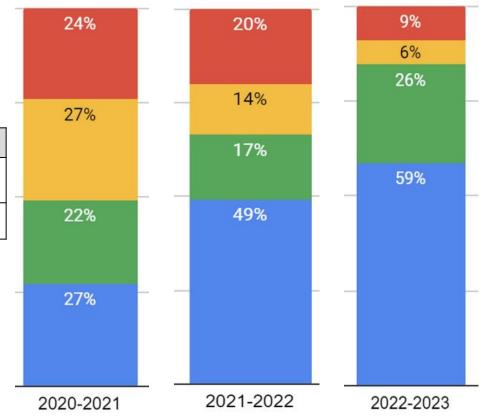
	2019 - 2020*	2020-2021*	2021 - 2022	2022-2023
At or Above Benchmark	88%	74%	83%	85%
Below Benchmark	11%	26%	17%	15%

*composite score is average of three schools for 2019-2020, 2020-2021

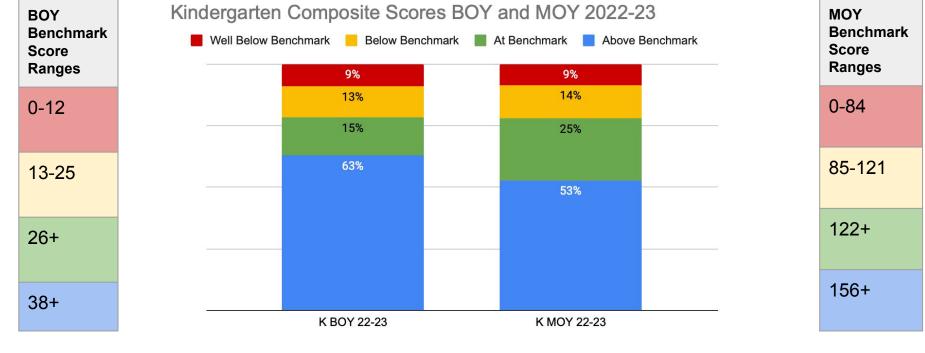
Tracing Acadience/DIBELS Cohort Progress for the Class of 2033

(Kindergarteners during 2020-2021 COVID year)

	2020-2021	2021-2022	2022-2023
At or Above Benchmark	49%	66%	85%
Below Benchmark	51%	34%	15%



Acadience/DIBELS (Early Literacy Skills): ALL Students



BOY Average: 46		K BOY 22-23	K MOY 22-23
	At or Above Benchmark	78%	78%
	Below	22%	23%

Benchmark

MOY Average: 158

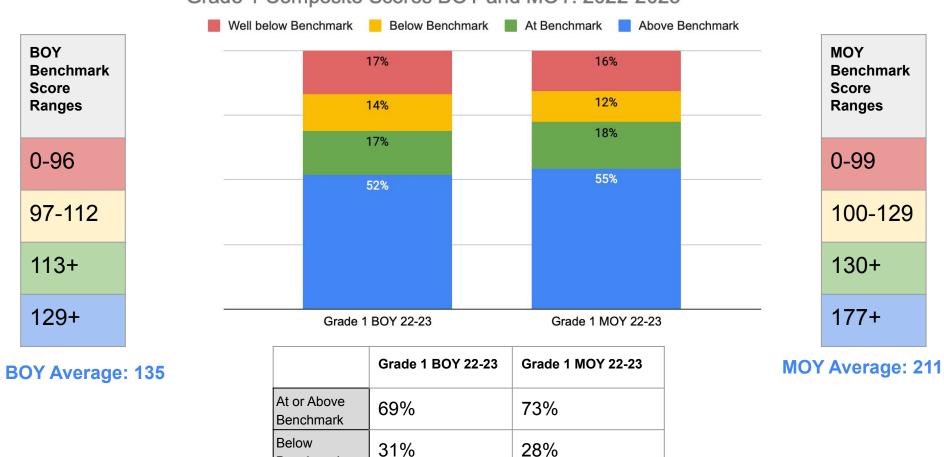
Kindergarten Subtest Scores

	Above Benchma	ark	At Benchmark Below Be		Below Benchmark		Well Below Benchmark	
Subtest	BOY	MOY	BOY	MOY	BOY	MOY	BOY	MOY
First Sound Fluency	71%	53%	11%	33%	3%	10%	14%	4%
Phoneme Segmentation Fluency		54%		32%		4%		7%
Nonsense Word Fluency- Correct Letter Sounds		51%		32%		14%		3%

^{*} Letter Naming Fluency is assessed at the beginning and middle of the year and is calculated in the composite score but does not have benchmarks.

Acadience/DIBELS (Early Literacy Skills): ALL Students

Grade 1 Composite Scores BOY and MOY: 2022-2023



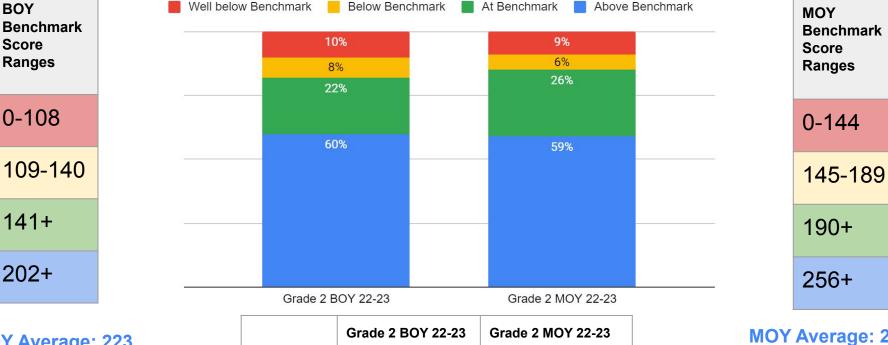
Benchmark

Grade 1 Subtest Scores

	Above Benchma	ark			Well Below Benchmark			
Subtest	BOY	MOY	BOY	MOY	BOY	MOY	BOY	MOY
Phoneme Segmentation Fluency	46%		22%		26%		7%	
Nonsense Word Fluency- Correct Letter Sounds	53%	60%	20%	23%	18%	9%	10%	8%
Nonsense Word Fluency- Whole Words Read	51%	58%	17%	21%	32%	11%	n/a	11%
Oral Reading Fluency- Accuracy		52%		13%		17%		18%
Oral Reading Fluency- Words Correct		53%		14%		14%		19%

Acadience/DIBELS (Early Literacy Skills): ALL Students





BOY Average: 223

At or Above 82% 85% Benchmark Below 18% 15% Benchmark

MOY Average: 260

Grade 2 Subtest Scores

	Above Benchma	ark	At Bench	mark	Below Benchmark		Well Below Benchmark	
Subtest	BOY	MOY	BOY	MOY	BOY	MOY	BOY	MOY
Nonsense Word Fluency- Correct Letter Sounds	63%		13%		15%		9%	
Nonsense Word Fluency- Whole Words Read	64%		17%		12%		8%	
Oral Reading Fluency- Accuracy	57%	55%	22%	29%	12%	7%	9%	9%
Oral Reading Fluency- Words Correct	58%	61%	15%	16%	14%	11%	14%	12%
Oral Reading Fluency- Retell	42%	44%	35%	32%	18%	19%	5%	5%

Grades 3-5 iReady Takeaways...

NOTE:

• Unlike K-2 Acadience/DIBELS for which we have multiple years of data, longitudinal data cannot be presented for iReady as this diagnostic assessment is a recent adoption.

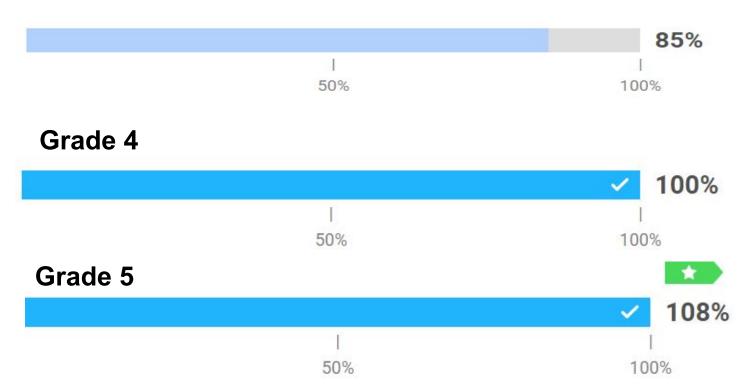
BOY to MOY TRENDS:

- Significant growth in all reading domains across all grade levels
 - Students in Grade 3 moved from 73% on or above grade-level at BOY to 89% at MOY
 - Students in Grade 4 moved from 63% on or above grade-level at BOY to 77% at MOY
 - Students in Grade 5 moved from 66% on or above grade-level at BOY to 77% at MOY
- All grade levels are exceeding expectations for Typical Annual Growth
- Special education cohorts in all grade levels are exceeding expectations for *Typical Annual Growth*



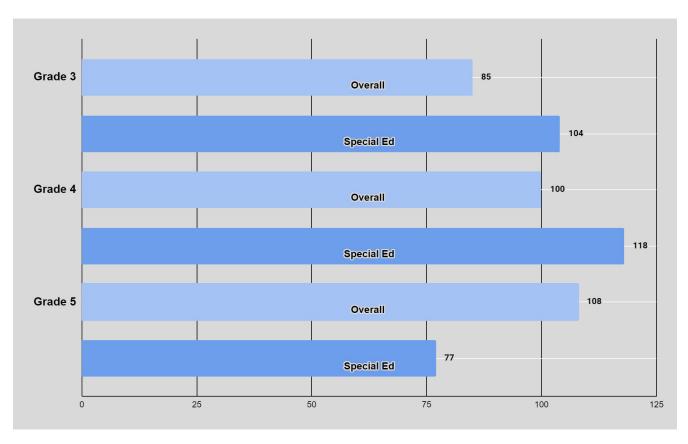
iReady Reading: ALL Students Grades 3-5 Progress Toward Annual Growth

Grade 3





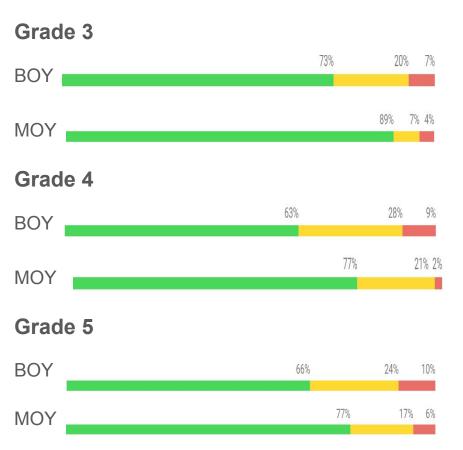
iReady Reading: Special Education Grades 3-5 Progress Toward Annual Growth





iReady Reading: ALL Students (Gr. 3-5)

Placement Distribution

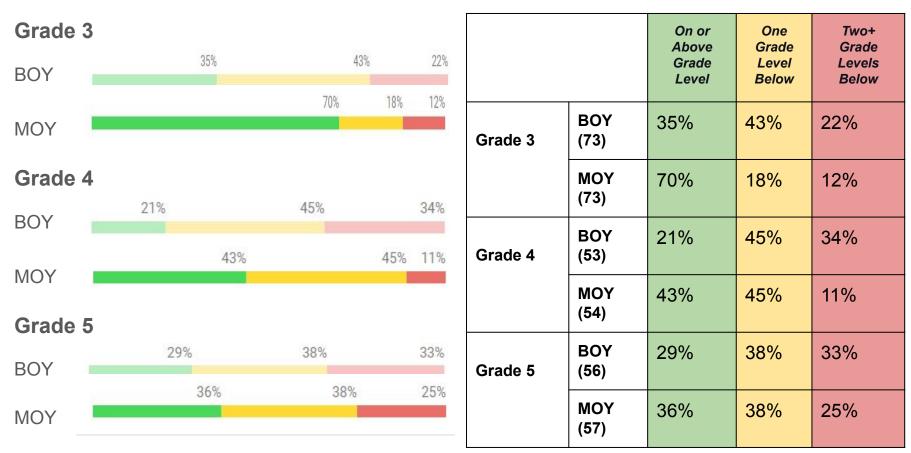


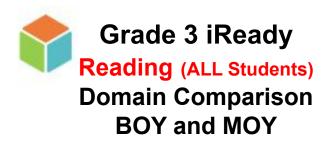
		On or Above Grade Level	One Grade Level Below	Two+ Grade Levels Below
Grade 3	воу	73%	20%	7%
	MOY	89%	7%	4%
Grade 4	воу	63%	28%	9%
	MOY	77%	21%	2%
Grade 5	воу	66%	24%	10%
	MOY	77%	17%	6%

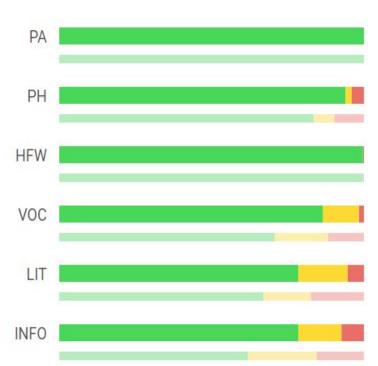


iReady Reading: Students with Disabilities (Gr. 3-5)

Placement Distribution







DOMAIN		ove Grade vel	One (Level		Two+ Grade Levels Below	
	воу	MOY	воу	MOY	воу	MOY
Phonological Awareness	100%	100%	N/A	N/A	N/A	N/A
Phonics	84%	94%	7%	2%	9%	4%
High Frequency Words	100%	100%	N/A	N/A	N/A	N/A
Vocabulary	71%	86%	18%	12%	12%	2%
Comprehension- Literature	67%	78%	15%	16%	18%	5%
Comprehension- Informational Text	62%	78%	23%	14%	15%	8%

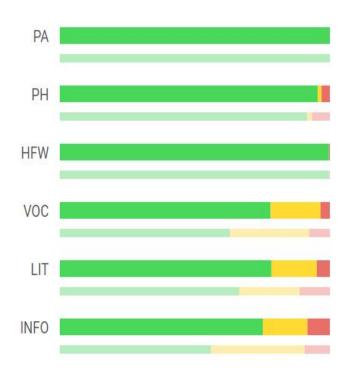
Grade 3 iReady Reading (Students with Disabilities) Domain Comparison BOY and MOY



DOMAIN		ove Grade vel	le One Grade Level Below		Two+ Grade Levels Below	
	воу	MOY	воу	MOY	воу	MOY
Phonological Awareness	100%	100%	N/A	N/A	N/A	N/A
Phonics	54%	80%	15%	7%	31%	14%
High Frequency Words	99%	99%	0%	0%	1%	1%
Vocabulary	38%	64%	24%	30%	38%	7%
Comprehension- Literature	35%	59%	26%	24%	39%	16%
Comprehension- Informational Text	28%	58%	36%	24%	35%	18%

Grade 4 iReady

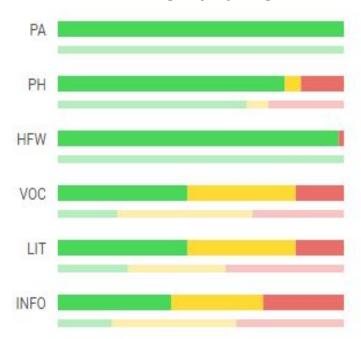
Reading (ALL Students)



DOMAIN		Above Level	One G Level E		Two+ Grade Levels Below	
<u> </u>	воу	MOY	воу	MOY	воу	MOY
Phonological Awareness	100%	100%	N/A	N/A	N/A	N/A
Phonics	92%	95%	2%	1%	7%	3%
High Frequency Words	100%	100%	N/A	N/A	N/A	N/A
Vocabulary	62%	78%	30%	19%	7%	3%
Comprehension- Literature	66%	78%	23%	17%	12%	5%
Comprehension- Informational Text	56%	75%	35%	17%	9%	8%



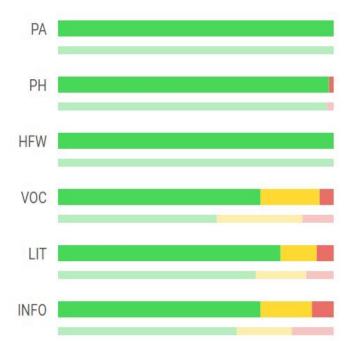
Reading (Students with Disabilities)



DOMAIN		Above Level	One Grade Level Below		Two+ Grade Levels Below	
	воу	MOY	воу	MOY	воу	МОҮ
Phonological Awareness	100%	100%	N/A	N/A	N/A	N/A
Phonics	66%	79%	8%	6%	26%	15%
High Frequency Words	100%	98%	N/A	N/A	N/A	2%
Vocabulary	21%	45%	47%	38%	32%	17%
Comprehension- Literature	25%	45%	34%	38%	42%	17%
Comprehension- Informational Text	19%	40%	43%	32%	38%	28%

Grade 5 iReady

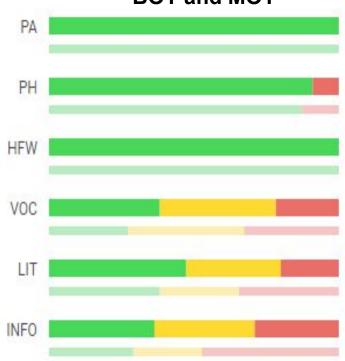
Reading (ALL Students)



DOMAIN	On or Grade	Above Level	One G Level E			de Levels low
	воу	MOY	воу	MOY	воу	MOY
Phonological Awareness	100%	100%	N/A	N/A	N/A	N/A
Phonics	98%	98%	N/A	N/A	2%	2%
High Frequency Words	100%	100%	N/A	N/A	N/A	N/A
Vocabulary	58%	73%	31%	21%	11%	5%
Comprehension- Literature	72%	81%	18%	13%	10%	6%
Comprehension- Informational Text	65%	73%	20%	19%	15%	8%

Grade 5 iReady

Reading (Students with Disabilities)



DOMAIN	On or Grade	Above Level	One G Level E			de Levels low
<u> </u>	воу	MOY	воу	MOY	воу	MOY
Phonological Awareness	100%	100%	N/A	N/A	N/A	N/A
Phonics	87%	91%	N/A	N/A	13%	9%
High Frequency Words	100%	100%	N/A	N/A	N/A	N/A
Vocabulary	27%	38%	40%	40%	33%	22%
Comprehension- Literature	38%	47%	27%	33%	35%	20%
Comprehension- Informational Text	29%	36%	24%	35%	47%	29%



iReady Reading: Tier 2 Reading Lab Students (Gr. 6-8)

Placement Distribution

