Willington Public Schools
Data Outcomes and Action Steps
Board of Education Community Review

The Nation's Report Card Shows Historic Drop In Math, Reading

The pandemic has smacked national assessment scores back to the last century | 16
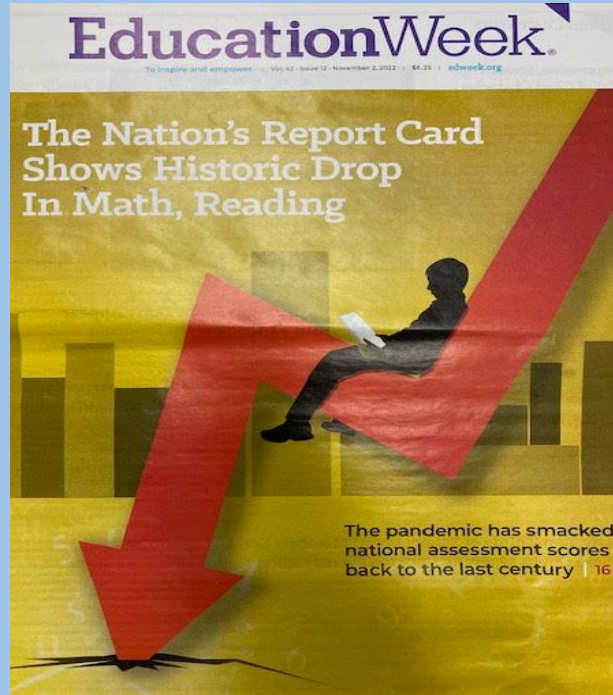
December 5, 2022

Comprehensive Student Success Data Sources

Standardized Testing

- Smarter Balanced Assessment Consortium (SBAC)
- Next Generation Science Standards (NGSS)
- i-Ready
- Physical fitness

Summative Testing

- Curriculum assessments

Other Data

- Climate surveys
- Student discipline
- Student attendance data
- Intervention data
- Special education data
- Participation in extracurricular activities
- 21st century skills
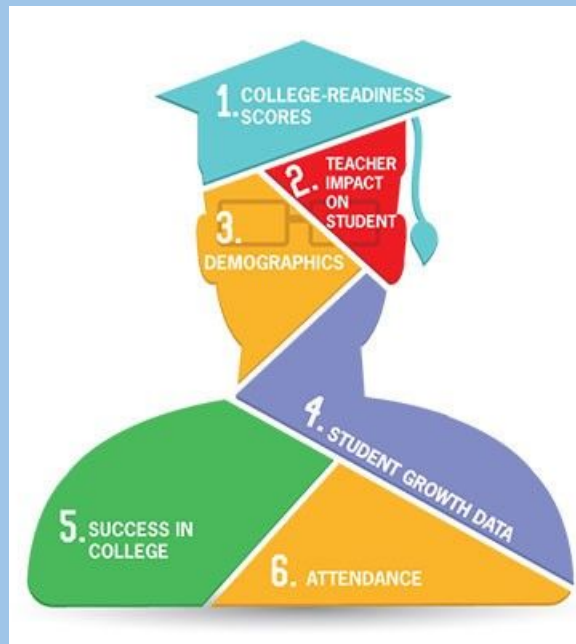
Data Trends: COVID Impact, Nationally and Locally

Nationally

- National Assessment of Educational Progress (NAEP), used for the "Nation's Report Card", math and reading results declined compared to performance in 2019
- Nationally, pandemic disruptions erased two decades of progress for 9-year-olds, according to the New York Times
- Significant increase in student absenteeism

Connecticut

- The 2021-2022 performance is below the three most recent pre-pandemic years
- Nearly nine out of every 10 school districts experienced a drop in ELA and math indices between 2018-2019 and 2021-2022 school years

Trend: Chronic Absenteeism

A student is chronically absent if they miss 10% or greater of the total number of days enrolled in the school year for any reason.

District	2017-18 Students	%	2018-19 Students	%	2019-20 Students	%	2020-21 Students	%	2021-22 Students	%
Ashford School District	25	7	20	5.5	29	8.3	33	9.6	112	32.7
Brooklyn School District	47	6.1	45	5.6	70	8.7	68	8.8	195	24.3
Columbia School District	14	3.5	11	2.8	26	6.7	36	9	32	7.7
Coventry School District	167	10.5	122	7.8	200	12.7	158	10.3	247	16
Hampton School District	7	8.6	*	*	9	11.8	*	*	19	30.2
Lebanon School District	67	6.9	68	7.2	91	9.7	61	6.8	141	16
Mansfield School District	49	4.6	44	4.1	90	8.4	98	10	167	17.6
Pomfret School District	17	4.6	7	1.9	25	6.8	11	3.3	56	16
Putnam School District	141	13	122	11	154	14.4	314	30.1	391	36.8
Regional School District 19	71	5.9	32	2.8	55	5	59	5.3	194	17.3
Scotland School District	*	*	*	*	*	*	9	11	28	32.6
South Windsor School District	223	5.3	224	5.2	352	7.8	160	3.5	539	11.4
Stafford School District	146	10.1	109	7.8	167	12.2	181	14	242	18.6
Thompson School District	103	10.7	87	9.3	168	17.8	269	29.1	352	39.5
Tolland School District	109	4.5	97	4.1	125	5.4	95	4.2	370	16.8
Willington School District	17	4.1	31	7.7	43	10.3	*	*	101	27.2
Windham School District	431	13.8	560	17.9	540	17.6	1181	39.6	1360	46

"Cohort" Analysis
(Same students since their first testing year)

2021-2022 Grade	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
3	--	--	--	COVID	--	--
4	--	--	--	COVID	Yr. 1 (first testing year)	29/32 (91%)
5	--	--	--	COVID	Yr. 1 (first testing year)	41/46 (89%)
6	--	--	Yr. 1 (first testing year)	COVID	--	41/50 (82%)
7	--	Yr. 1 (first testing year)	--	COVID	--	37/48 (77%)
8	Yr. 1 (first testing year)	--	--	COVID	--	31/41 (76%)

SBAC
Cohort Analysis in <u>Math</u>
In percentage of students at level 3 or above

2021-2022 Grade	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
3	--	--	--	COVID	--	43
4	--	--	--	COVID	38	38
5	--	--	--	COVID	41	44
6	--	--	66	COVID	24	31
7	--	68	53	COVID	30	45
8	51	53	49	COVID	39	34

SBAC
Cohort Analysis in <u>Language Arts</u>
in percentage of students at level 3 or above

2021-2022 Grade	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
3	--	--	--	COVID	--	50
4	--	--	--	COVID	35	26
5	--	--	--	COVID	54	42
6	--	--	49	COVID	56	51
7		66	47	COVID	55	47
8	46	50	51	COVID	47	41

The Connecticut Growth Model:
A New Way of Monitoring Student Progress

Purpose: to identify the average percentage of student growth based upon each student's scale score growth from year to year.

Grade	Student	2019-2020 Scale Score	Target Growth	2020-2021 Scale Score	Actual Growth	Percentage of Target Achieved
4	Student A	2420	69	2470	50	72%
4	Student B	2131	82	2210	79	96%
4	Student C	2540	49	2545	5	10%
Average						**59%**

ELA Achievement Level Ranges and Growth Targets

Grade in Yr. 1	Level	Level 1: Not Met		Level 2: Approaching		Level 3: Met		Level 4: Exceeded	
		1 - LOW	2 - HIGH	3 - LOW	4 - HIGH	5 - LOW	6 - HIGH	7 - LOW	8 - HIGH
3	Range	2114-2330	2331-2366	2367-2399	2400-2431	2432-2460	2461-2489	2490-2522	2523+
	Target	82	71	70	69	68	64	60	45/maintain
4	Range	2131-2378	2379-2415	2416-2444	2445-2472	2473-2502	2503-2532	2533-2568	2569+
	Target	82	69	69	64	58	55	49	34/maintain
5	Range	2201-2405	2406-2441	2442-2471	2472-2501	2502-2541	2542-2581	2582-2619	2620+
	Target	69	56	55	48	43	39	30	16/maintain
6	Range	2210-2417	2418-2456	2457-2493	2494-2530	2531-2574	2575-2617	2618-2656	2657+
	Target	73	58	53	47	44	38	33	21/maintain
7	Range	2258-2438	2439-2478	2479-2515	2516-2551	2552-2600	2601-2648	2649-2687	2688+
	Target	69	50	49	44	40	31	20	12/maintain
8	Range	2288-2446	2447-2486	2487-2526	2527-2566	2567-2617	2618-2667	2668-2703	2704+

Source: Connecticut State Department of Education

Math Achievement Level Ranges and Growth Targets

Grade in Yr. 1	Level	Level 1: Not Met		Level 2: Approaching		Level 3: Met		Level 4: Exceeded	
		1 - LOW	2 - HIGH	3 - LOW	4 - HIGH	5 - LOW	6 - HIGH	7 - LOW	8 - HIGH
3	Range	2189-2351	2352-2380	2381-2408	2409-2435	2436-2468	2469-2500	2501-2526	2527+
	Target	77	61	59	60	59	57	56	47/maintain
4	Range	2204-2381	2382-2410	2411-2447	2448-2484	2485-2516	2517-2548	2549-2574	2575+
	Target	51	38	40	44	46	47	43	37/maintain
5	Range	2219-2419	2420-2454	2455-2491	2492-2527	2528-2553	2554-2578	2579-2605	2606+
	Target	43	46	45	44	42	41	41	44/maintain
6	Range	2235-2434	2435-2472	2473-2512	2513-2551	2552-2580	2581-2609	2610-2639	2640+
	Target	49	41	38	36	36	36	38	31/maintain
7	Range	2250-2438	2439-2483	2484-2525	2526-2566	2567-2600	2601-2634	2635-2664	2665+
	Target	58	35	31	31	36	37	38	35/maintain
8	Range	2265-2456	2457-2503	2504-2544	2545-2585	2586-2619	2620-2652	2653-2685	2686+

Source: Connecticut State Department of Education

2018-2019 District Accountability Index

| Indicator	Index/Rate		Target	Points Earned	Max Points	% Points Earned	State Average % Points Earned
1a. ELA Performance Index - All Students	**64.1**	69.9	75	46.6	50	93.2	90.2
1b. ELA Performance Index - High Needs Students		63.4	75	42.3	50	84.5	77.5
1c. Math Performance Index - All Students	**60.9**	67.4	75	44.9	50	89.8	84.1
1d. Math Performance Index - High Needs Students		59.8	75	39.9	50	79.8	70.2
1e. Science Performance Index - All Students	**68.4**	66.3	75	44.2	50	88.5	85.0
1f. Science Performance Index - High Needs Students		57.9	75	38.6	50	77.2	72.2
2a. ELA Academic Growth - All Students	**53.5**	46.6%	100%	46.6	100	46.6	59.9
2b. ELA Academic Growth - High Needs Students		39.5%	100%	39.5	100	39.5	55.1
2c. Math Academic Growth - All Students	**72.3**	62.5%	100%	62.5	100	62.5	62.5
2d. Math Academic Growth - High Needs Students		58.9%	100%	58.9	100	58.9	55.2
2e. Progress Toward English Proficiency - Literacy		.	100%	.		.	60.0
2f. Progress Toward English Proficiency - Oral		.	100%	.		.	52.1
4a. Chronic Absenteeism - All Students		7.7%	<=5%	44.7	50	89.3	78.3
4b. Chronic Absenteeism - High Needs Students		10.4%	<=5%	39.2	50	78.4	55.7
5. Preparation for CCR - Percent Taking Courses		.	75%	.		.	100.0
6. Preparation for CCR - Percent Passing Exams		.	75%	.		.	56.7
7. On-track to High School Graduation		95.7%	94%	50.0	50	100.0	93.6
8. 4-year Graduation: All Students (2018 Cohort)		.	94%	.		.	93.9
9. 6-year Graduation: High Needs Students (2016 Cohort)		.	94%	.		.	88.6
10. Postsecondary Entrance (Graduating Class 2018)		.	75%	.		.	94.5
11. Physical Fitness (estimated participation rate = 98.0%)		63.9%	75%	42.6	50	85.2	70.6
12. Arts Access		.	60%	.		.	86.5
Accountability Index		.		640.4	900	71.2	74.2

School and District Accountability

Connecticut's *Next Generation Accountability System* is a broad set of 12 indicators that help tell the story of how well a school is preparing its students for success in college, careers and life. The system moves beyond test scores and graduation rates and instead provides a more holistic, multifactor perspective of district and school performance and incorporates student growth over time.

Notes:

-items 1a through 2d are directly linked to high stakes standardized tests

-certain items on the *District Accountability Index* do not apply to elementary and middle schools
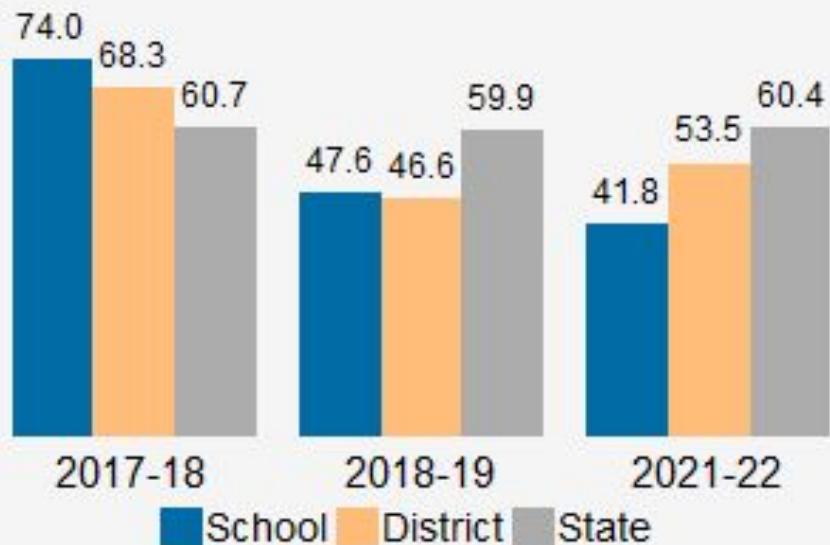
2018-2019 CES Accountability Index

Indicator	Index/Rate	Target	Points Earned	Max Points	% Points Earned	State Average % Points Earned
1a. ELA Performance Index - All Students	70.2	75	46.8	50	93.6	90.2
1b. ELA Performance Index - High Needs Students	63.7	75	42.5	50	84.9	77.5
1c. Math Performance Index - All Students	66.6	75	44.4	50	88.8	84.1
1d. Math Performance Index - High Needs Students	62.1	75	41.4	50	82.8	70.2
2a. ELA Academic Growth - All Students	**41.8** 47.6%	100%	47.6	100	47.6	59.9
2b. ELA Academic Growth - High Needs Students	32.0%	100%	32.0	100	32.0	55.1
2c. Math Academic Growth - All Students	**82.4** 46.3%	100%	46.3	100	46.3	62.5
2d. Math Academic Growth - High Needs Students	50.9%	100%	50.9	100	50.9	55.2
4a. Chronic Absenteeism - All Students	6.2%	<=5%	47.6	50	95.1	78.3
4b. Chronic Absenteeism - High Needs Students	11.4%	<=5%	37.2	50	74.4	55.7
11. Physical Fitness (estimated participation rate = 97.9%)	56.5%	75%	37.7	50	75.4	70.6
Accountability Index	.		474.3	750	63.2	74.2

CES SBAC Growth 2021-2022

Smarter Balanced Growth, ELA ⓘ ⊘
Target: 100

	2017-18	2018-19	2021-22
School	74.0	47.6	41.8
District	68.3	46.6	53.5
State	60.7	59.9	60.4

Legend: ■ School ■ District ■ State

Smarter Balanced Growth, Math ⓘ ⊘
Target: 100

	2017-18	2018-19	2021-22
School	75.4	46.3	82.4
District	66.3	62.5	72.3
State	61.9	62.5	65.2

Legend: ■ School ■ District ■ State
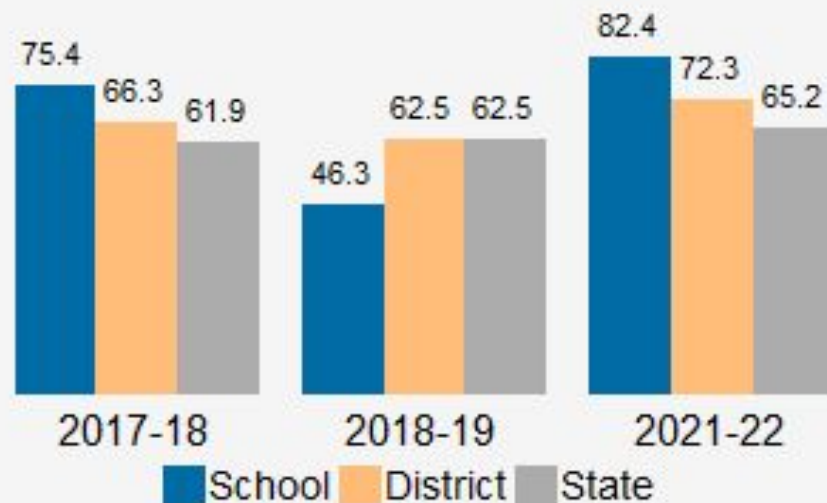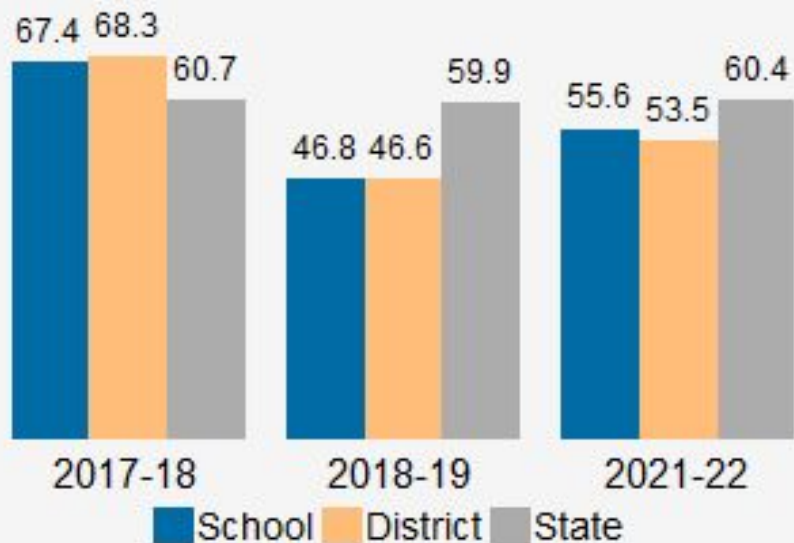
2018-2019 HMS Accountability Index

Indicator	Index/Rate	Target	Points Earned	Max Points	% Points Earned	State Average % Points Earned
1a. ELA Performance Index - All Students	70.2	75	46.8	50	93.6	90.2
1b. ELA Performance Index - High Needs Students	64.1	75	42.8	50	85.5	77.5
1c. Math Performance Index - All Students	68.1	75	45.4	50	90.8	84.1
1d. Math Performance Index - High Needs Students	59.4	75	39.6	50	79.1	70.2
1e. Science Performance Index - All Students	**68.4** 66.6	75	44.4	50	88.8	85.0
1f. Science Performance Index - High Needs Students	58.2	75	38.8	50	77.5	72.2
2a. ELA Academic Growth - All Students ⬅	**53.5** 46.8%	100%	46.8	100	46.8	59.9
2b. ELA Academic Growth - High Needs Students	42.9%	100%	42.9	100	42.9	55.1
2c. Math Academic Growth - All Students ⬅	**72.3** 66.9%	100%	66.9	100	66.9	62.5
2d. Math Academic Growth - High Needs Students	61.8%	100%	61.8	100	61.8	55.2
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4a. Chronic Absenteeism - All Students	9.4%	<=5%	41.3	50	82.5	78.3
4b. Chronic Absenteeism - High Needs Students	9.7%	<=5%	40.6	50	81.1	55.7
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7. On-track to High School Graduation	95.7%	94%	50.0	50	100.0	93.6
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11. Physical Fitness (estimated participation rate = 100.0%)	67.3%	75%	44.9	50	89.8	70.6
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Accountability Index	.		652.7	900	72.5	74.2

HMS SBAC Growth 2021-2022

Smarter Balanced Growth, ELA ⓘ ⊘
Target: 100

2017-18	2018-19	2021-22
School 67.4	School 46.8	School 55.6
District 68.3	District 46.6	District 53.5
State 60.7	State 59.9	State 60.4

Smarter Balanced Growth, Math ⓘ ⊘
Target: 100

2017-18	2018-19	2021-22
School 64.8	School 66.9	School 70.5
District 66.3	District 62.5	District 72.3
State 61.9	State 62.5	State 65.2
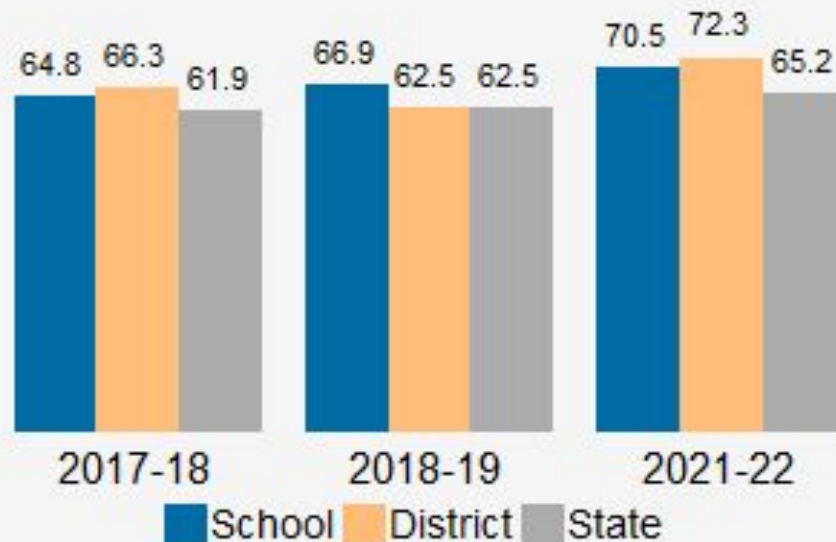
Next Generation Science Standards Assessment
In percentage of students at level 3 or above

Grade	2018-2019	2019-2020	2020-2021	2021-2022
5	63	COVID	44	65
8	52	COVID	58	51

* Cohort data unavailable as students only test in grades 5 and 8 (testing started 18-19)

Math i-Ready Data - Grades 2-8
Cohort Analysis

School Year 2020-2021

Gr	Fall			Winter			Spring		
2	13%	73%	15%	8%	58%	35%	2%	45%	52%
3	18%	70%	12%	6%	75%	19%	11%	49%	40%
4	19%	60%	21%	12%	51%	37%	11%	38%	51%
5	21%	50%	29%	22%	39%	39%	13%	35%	52%
6	28%	40%	33%	27%	27%	46%	17%	38%	45%
7	32%	27%	41%	22%	33%	44%	23%	31%	46%

School Year 2021-2022

Gr	Fall			Winter			Spring		
2	22%	59%	20%	7%	62%	31%	2%	44%	53%
3	20%	64%	16%	16%	45%	39%	4%	42%	53%
4	44%	38%	19%	20%	63%	17%	11%	37%	51%
5	23%	43%	34%	12%	21%	67%	16%	16%	68%
6	33%	44%	22%	20%	49%	31%	19%	33%	48%
7	26%	45%	30%	11%	43%	47%	21%	31%	48%
8	44%	18%	38%	25%	38%	38%	25%	30%	45%

School Year 2022-2023

Gr	Fall			Winter			Spring		
2	47%	50%	3%	%	%	%	%	%	%
3	31%	55%	14%	%	%	%	%	%	%
4	37%	40%	23%	%	%	%	%	%	%
5	39%	44%	17%	%	%	%	%	%	%
6	30%	41	30%	%	%	%	%	%	%
7	37%	37%	27%	%	%	%	%	%	%
8	29%	29%	43%	%	%	%	%	%	%

Math i-Ready Data
Annual Typical & Stretch Growth
End of Year 2021-2022

Grade	Annual Typical Growth ⓘ		Annual Stretch Growth® ⓘ		% Students with Improved Placement
	Progress (Median)	% Met	Progress (Median)	% Met	
Grade 2	106%	62%	77%	17%	62%
Grade 3	104%	57%	74%	27%	66%
Grade 4	96%	49%	65%	20%	77%
Grade 5	111%	57%	68%	18%	70%
Grade 6	100%	53%	54%	23%	68%
Grade 7	154%	66%	74%	36%	62%
Grade 8	114%	58%	49%	20%	45%

Typical Growth: the average annual growth of students at each grade and placement level. Typical Growth allows you to see how a student is growing compared to average student growth at the same grade and placement level.

Individual students:

Aim to exceed 100% of their Typical Growth measure by the end of the academic year.

Groups of students:

Aim to exceed 100% median progress toward Typical Growth by the end of the academic year.

Stretch Growth: the growth recommended to put below-grade level students on a path to proficiency and on-grade level students on a path to advanced proficiency levels. Students who are further behind have larger growth benchmarks to catch them up, and it will likely take many students more than one year to achieve proficiency.

Aim to meet their Stretch Growth measure by the end of the academic year. In typical districts, we've seen that roughly 25%–35% of students will reach these aspirational targets.

Aim for as many students as possible reaching Stretch Growth. Note: Because Stretch Growth measures differ significantly from student to student, we do not recommend setting uniform Stretch Growth goals for aggregate groups of students.

Reading i-Ready Data - Grades 2-8
Cohort Analysis

School Year 2020-2021

Gr	Fall			Winter			Spring		
2	30%	43%	28%	13%	45%	43%	5%	34%	61%
3	25%	28%	47%	28%	28%	44%	20%	26%	54%
4	20%	35%	45%	17%	37%	46%	13%	29%	58%
5	31%	40%	29%	33%	24%	43%	24%	30%	46%
6	26%	24%	50%	20%	26%	54%	26%	15%	60%
7	38%	24%	38%	42%	22%	36%	31%	26%	44%

School Year 2021-2022

Gr	Fall			Winter			Spring		
2	10%	58%	33%	2%	37%	61%	2%	33%	65%
3	35%	26%	40%	27%	20%	52%	16%	16%	69%
4	44%	41%	16%	29%	35%	35%	14%	49%	37%
5	27%	30%	43%	21%	26%	52%	18%	32%	50%
6	42%	24%	33%	23%	26%	51%	27%	19%	54%
7	38%	28%	34%	33%	18%	49%	19%	27%	54%
8	38%	28%	35%	45%	8%	47%	29%	32%	39%

School Year 2022-2023

Gr	Fall			Winter			Spring		
2	53%	44%	3%	%	%	%	%	%	%
3	21%	33%	45%	%	%	%	%	%	%
4	28%	40%	33%	%	%	%	%	%	%
5	49%	34%	17%	%	%	%	%	%	%
6	41%	20%	39%	%	%	%	%	%	%
7	39%	24%	37%	%	%	%	%	%	%
8	21%	29%	50%	%	%	%	%	%	%

Reading i-Ready Data
Annual Typical & Stretch Growth
End of Year 2021-2022

| Grade | Annual Typical Growth | | Annual Stretch Growth® | | % Students with Improved Placement |
	Progress (Median)	% Met	Progress (Median)	% Met	
Grade 2	102%	57%	77%	29%	71%
Grade 3	159%	70%	91%	48%	77%
Grade 4	146%	54%	66%	23%	60%
Grade 5	103%	55%	45%	20%	52%
Grade 6	142%	60%	51%	26%	60%
Grade 7	200%	68%	57%	36%	57%
Grade 8	104%	50%	34%	18%	35%

Typical Growth: the average annual growth of students at each grade and placement level. Typical Growth allows you to see how a student is growing compared to average student growth at the same grade and placement level.

Individual students:
Aim to exceed 100% of their Typical Growth measure by the end of the academic year.

Groups of students:
Aim to exceed 100% median progress toward Typical Growth by the end of the academic year.

Stretch Growth: the growth recommended to put below-grade level students on a path to proficiency and on-grade level students on a path to advanced proficiency levels. Students who are further behind have larger growth benchmarks to catch them up, and it will likely take many students more than one year to achieve proficiency.

Aim to meet their Stretch Growth measure by the end of the academic year. In typical districts, we've seen that roughly 25%–35% of students will reach these aspirational targets.

Aim for as many students as possible reaching Stretch Growth. *Note: Because Stretch Growth measures differ significantly from student to student, we do not recommend setting uniform Stretch Growth goals for aggregate groups of students.*

Priorities	District Action Step(s)
Curriculum and instruction	- Development and revision of ELA, math, and science curriculum benchmark and formative assessments - Using math and literacy coaches to support implementation of new curriculum
Targeted instruction for all students	- Improve the utilization of WIN block and Learning Lab (intervention/enrichment) across all grades in ELA and math - Full year science (HMS)
High quality professional development	- Provide LETRS training to improve reading instruction (yr. 2) - Rollout of updated curriculum - Provide Illustrative Math training to improve math instruction - Training and implementation of OpenSciEd model (grades 5-8)