State of the District Academic Proficiency & Growth

Board of Education May 5, 2022





Tonight's Focus: State of the District

- Academic Proficiency
- Academic Growth
- Student Groups
- Academic Return on Investment (ROI)



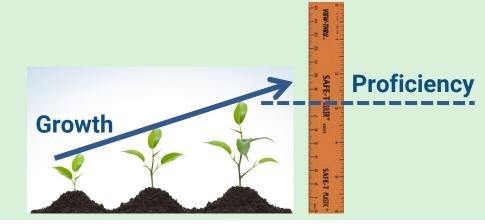
Achievement Proficiency and Growth

Proficiency

References attainment at one point in time. For example, status can refer to an individual student's score on a test or the percentage of students who met the state standards in Math or ELA.

Growth

Examines how much students learn, or grow, across multiple assessments over time.



Growth is a more equitable approach to assessing improvement efforts.



Academic Proficiency



District Proficiency – Math

Percent Meeting/Exceeding Proficiency Spring 2022 NWEA MAP 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% Grade 2 Grade 3 Grade 6 Grade 7 Grade 4 Grade 5 Grade 8 Grade 1

Test Grade

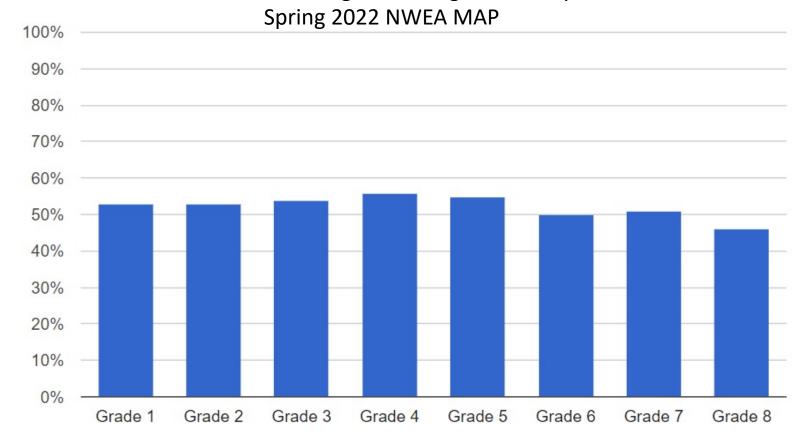
S	chool Year	Test Grade	Percentage of Students Meeting Standard	Number of Students Meeting Standards	Student Record Count
A	All Selected	All Selected	46%	2,128	4,643



Percent

District Proficiency – Reading

Percent Meeting/Exceeding Proficiency





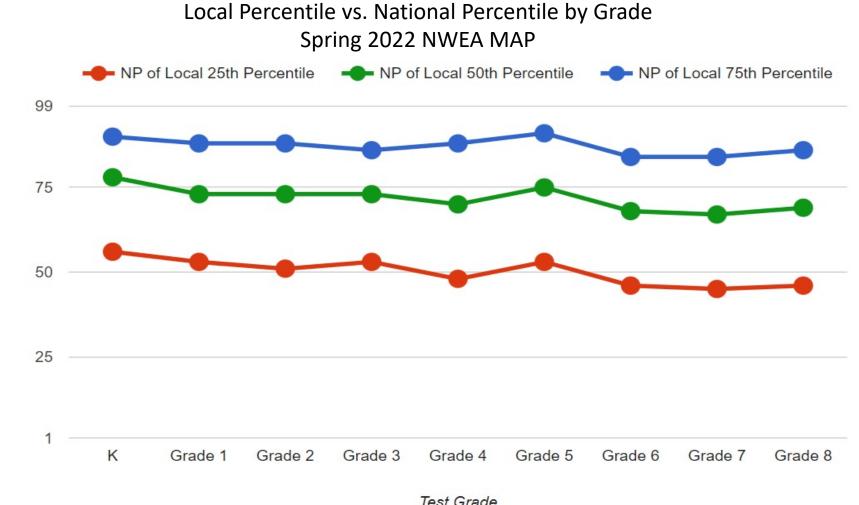
 Test Grade

 School Year
 Test Grade
 Number of Students Meeting Standards
 Student Record Count

 ECRAGroup
 All Selected
 All Selected
 Selected
 52%
 2,421
 4,639

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National Benchmark-Math



National Percentile

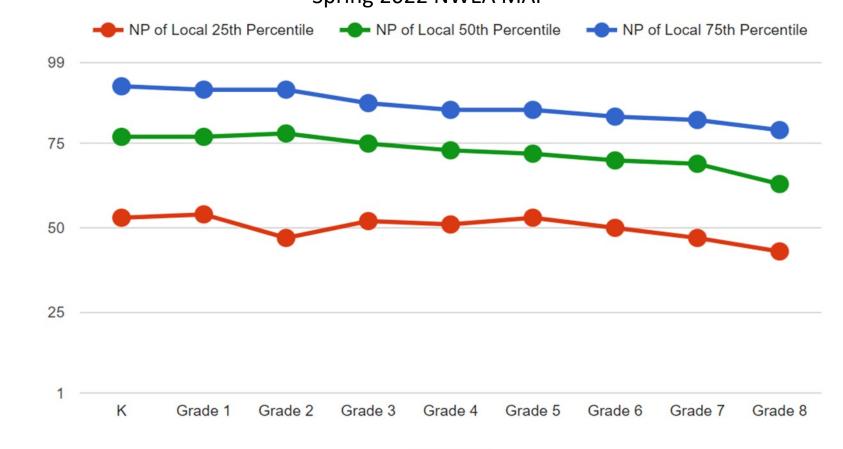


		1001 01000			
Test Grade	NP of Local 25th	NP of Local 50th	NP of Local 75th	Student Count	
lest Glade	Percentile	Percentile	Percentile	Student Count	
All Selected	50	72	87	5,102	

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National Benchmark-Reading

Local Percentile vs. National Percentile by Grade Spring 2022 NWEA MAP



Test Grade



National Percentile

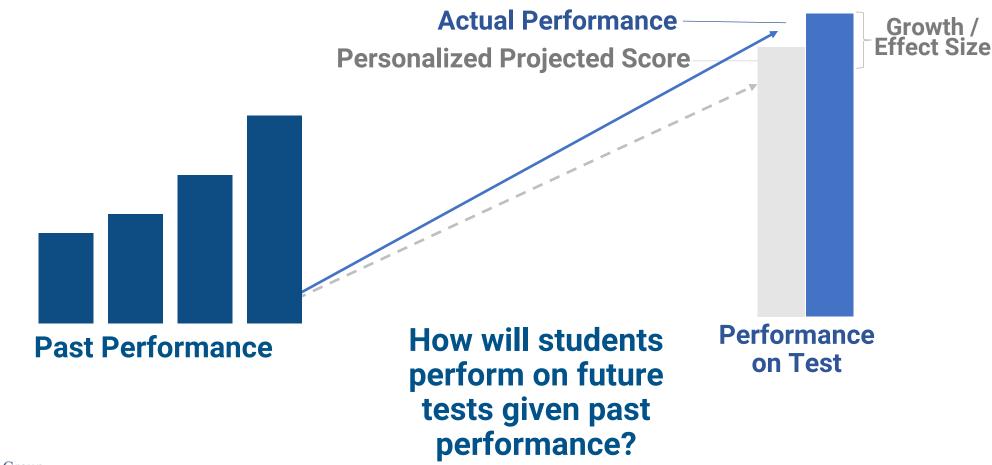
ECRA Group	Test Grade	NP of Local 25th Percentile	NP of Local 50th Percentile	NP of Local 75th Percentile	Student Count	
51	All Selected	49	72	86	5,100	

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Academic Growth



A Projection versus Actual Framework





ECRA Thresholds for Effect Sizes and Growth Inference

Statistical Test	Aggregate Growth Threshold	Growth Inference	
Not Significant	Any	Expected	
	Growth is +0.30 or above	Higher than Expected	\bigcirc
	Growth from -0.29 to + 0.29	Expected	
Significant*	Growth from -0.30 to -0.59	Lower than Expected	
	Growth is -0.60 or below	Unsatisfactory	

*"Significant" refers to a p< 0.05 for a two-tailed test



Academic Growth-Math

Subject:

Mathematics

Growth Year: 2021-2022

Growth Comparison Group: Local District

Term: Spring

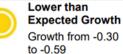


Grade	0/ High Crowth		% High Growth		% High Growth		% Low Growth	Growth Effect Size
03	503	53%	25%	66%	10%	+ 0.35 🔘		
04	538	41%	33%	55%	11%	+ 0.44 🔘		
05	522	47%	28%	61%	11%	+ 0.31 🔘		
06	542	38%	19%	61%	20%	- 0.03 🔘		
07	522	37%	21%	66%	14%	+ 0.18 🔘		
08	550	42%	21%	65%	14%	+ 0.14 🔘		

Student Growth by Grade



Expected Growth Growth from -0.29 to +0.29



Unsatisfactory Growth Growth is -0.60 or below

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Academic Growth-Reading

Subject: Reading

Growth Year: 2021-2022

Growth Comparison Group: Local District

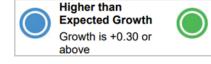
Term: Spring



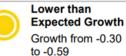
Grade	Student Count^	% Met Benchmark	% High Growth	% High Growth % Expected Growth % Low Gr		Growth Effect Size
03	503	55%	24%	65%	12%	+ 0.24 🔘
04	539	57%	30%	60%	10%	+ 0.38 🔘
05	521	54%	27%	62%	11%	+ 0.32 🔘
06	541	50%	21%	64%	16%	+ 0.12 🔘
07	523	50%	18%	66%	16%	+ 0.02 🔘
08	549	47%	17%	64%	19%	- 0.07 🔘

Student Growth by Grade





Expected Growth Growth from -0.29 to +0.29



Unsatisfactory Growth Growth is -0.60 or below

Student Groups



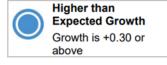
Student Groups-Math

Spring 2022 NWEA MAP

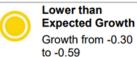
Group	Student Group	Student Count^	<mark>% Met</mark> Benchmark	% High Growth	% Expected Growth	% Low Growth	Growth Effect Size
ELL	ELL	187	16%	24%	62%	14%	+ 0.24
ELL	Not ELL	2,990	45%	24%	62%	13%	+ 0.23
Ethnicity	Asian	379	63%	31%	57%	12%	+ 0.39
Ethnicity	Black	42	<mark>14</mark> %	12%	76%	12%	+ 0.06
Ethnicity	Hispanic	229	23%	21%	64%	15%	+ 0.13
Ethnicity	Other	35	37%	14%	60%	26%	- 0.17 🔘
Ethnicity	White	2,492	42%	24%	62%	13%	+ 0.22
Gender	Female	1,569	37%	20%	65%	15%	+ 0.13
Gender	Male	1,608	49%	28%	59%	12%	+ 0.33
IEP	IEP	339	9%	18%	61%	21%	- 0.07 🔘
IEP	No IEP	2,838	47%	25%	62%	13%	+ 0.26
Income	Low Income	424	26%	21%	61%	19%	+ 0.10
Income	Not Low Income	2,753	46%	25%	62%	13%	+ 0.25

Growth by Student Group





Expected Growth Growth from -0.29 to +0.29



O Unsatisfactory Growth Growth is -0.60 or below

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Student Groups-Reading

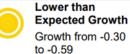
Spring 2022 NWEA MAP

Growth by Student Group

Group	Student Group	Student Count^	% Met Benchmark	% High Growth	% Expected Growth	% Low Growth	Growth Effect Size
ELL	ELL	188	16%	23%	59%	18%	+ 0.13
ELL	Not ELL	2,988	54%	23%	64%	14%	+ 0.17 🔘
Ethnicity	Asian	381	63%	21%	67%	12%	+ 0.15
Ethnicity	Black	42	26%	19%	71%	10%	+ 0.24
Ethnicity	Hispanic	230	32%	20%	66%	14%	+ 0.12
Ethnicity	Other	35	60%	20%	66%	14%	+ 0.19
Ethnicity	White	2,488	53%	23%	63%	14%	+ 0.17 🔘
Gender	Female	1,572	55%	23%	65%	12%	+ 0.22
Gender	Male	1,604	50%	22%	62%	16%	+ 0.11
IEP	IEP	338	14%	20%	59%	21%	- 0.06
IEP	No IEP	2,838	<mark>57%</mark>	23%	64%	13%	+ 0.19
Income	Low Income	425	34%	21%	63%	16%	+ 0.11
Income	Not Low Income	2,751	55%	23%	63%	13%	+ 0.18



Expected Growth Growth from -0.29 to +0.29



Unsatisfactory Growth below

Growth is -0.60 or

Academic Return on Investment



Academic ROI

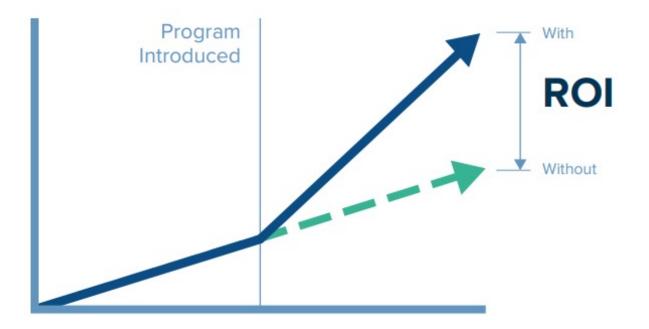
Academic ROI quantifies the impact of an investment on student growth above and beyond growth that would have happened anyway.

Districts often ask:

"How did students in the program grow?"

Academic ROI asks:

"How did students in the program grow compared to how they would have grown without the program?"



Observed Results - Student performance with the program.

Projected Results - Student performance without the program.



Academic ROI-Math

Spring 2022 NWEA MAP

Student Growth by Programs and Other Groups

Group	Student Group	Student Count^	% Met Benchmark	% High Growth	% Expected Growth	% Low Growth	Growth Effect Size
Advanced Math	No - Advanced Math	2,270	31%	22%	63%	16%	+ 0.12
Advanced Math	Yes - Advanced Math	404	99%	39%	54%	6%	+ 0.69
Math Intervention	No - Math Intervention	3,044	45%	25%	62%	14%	+ 0.23
Math Intervention	Yes - Math Intervention	132	2%	19%	70%	11%	+ 0.29 🔘





Academic ROI-Reading

Spring 2022 NWEA MAP

Student Growth by Programs and Other Groups

Group	Student Group	Student Count^	% Met Benchmark	% High Growth	% Expected Growth	% Low Growth	Growth Effect Size
Advanced Language Arts	No - Advanced Language Arts	1,443	43%	18%	65%	17%	- 0.01 🔘
Advanced Language Arts	Yes - Advanced Language Arts	170	<mark>98%</mark>	28%	59%	12%	+ 0.28
Reading Intervention	No - Reading Intervention	3,081	54%	23%	64%	14%	+ 0.17
Reading Intervention	Yes - Reading Intervention	95	4%	29%	54%	17%	+ 0.23





Summary

- Students significantly outperform the nation in both mathematics and reading proficiency.
- Overall district level growth is consistent with pre-pandemic norms. Growth is significantly higher than expected in several grade levels.
- Proficiency gaps exist between student groups. However, student groups are growing at similar rates. To close gaps, lower performing groups have to grow at higher rates.
- Students in advanced math courses are growing at higher rates. Students in math interventions are growing at expected rates but trending higher.
- Students in advanced language arts courses are growing at expected rates but trending higher. Students in reading interventions are growing at expected rates but trending higher.



Questions?



