



Butler School District 53

NWEA MAP Fall 2020 Review



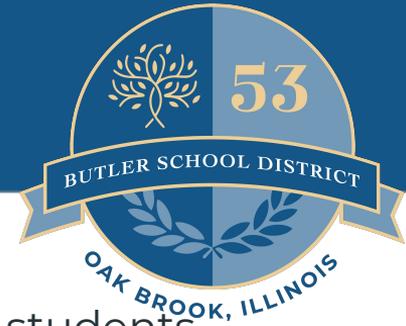
NWEA MAP



- ◎ MAP tests are state-aligned computerized adaptive assessments that provide useful data and information about student achievement and growth.
- ◎ NWEA uses anonymous assessment data from over 10.2 million students to create national norms.
- ◎ MAP tests measure academic growth over time, independent of grade level or age.
- ◎ In D53, we assess 2nd through 8th grade students in Reading and Math, twice yearly (fall and spring).
 - We were unable to administer MAP tests in Spring 2020.

Strategic Goal 2018-2022

EMBRACING CONTINUOUS LEARNING



- ◎ **Goal 1 Strengthen Exemplary Teaching & Learning:** Ensure students are emotionally and academically prepared for success in high school, receive a well-rounded education, and engage in a culture of learning.
- ◎ 1.1 Teaching
 - 1.1.1 Establish an instructional and curricular framework
 - 1.1.2 Define high expectations for academic performance and “readiness” for the next level of learning
- ◎ 1.2 Learning
 - 1.2.2 Implement instructional programs that personalize student learning, advance rigor, promote creativity, and provide differentiated learning
 - 1.2.4 Continue to integrate digital learning tools and support technology infrastructure

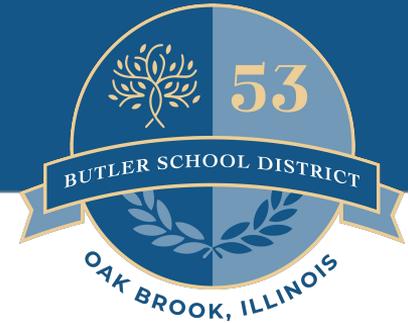
COVID Impact



- “Preliminary COVID slide estimates suggest students will return in fall 2020 with roughly 70% of the learning gains in reading relative to a typical school year. However, in mathematics, students are likely to show much smaller learning gains, returning with less than 50% of the learning gains and in some grades, nearly a full year behind what we would observe in normal conditions” (p. 2).

[Kuhfeld, M. & Tarasawa, B. \(2020\). The COVID-19 slide: What summer learning loss can tell us about the potential impact of school closures on student academic achievement. NWEA.](#)

COVID Impact



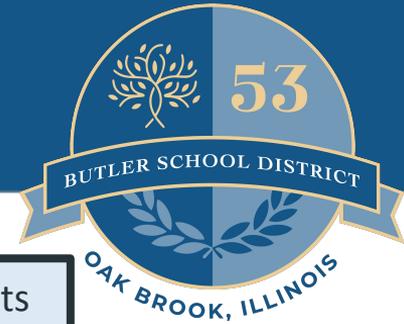
- ◎ “...a student who lost ground during the summer does not necessarily continue to lose ground during the next school year; rather, they are likely to gain ground” (p. 22).
- ◎ “Our models also suggest that students who lose the most while out of school tend to gain the most the following year (at least under typical summer loss conditions)” (p. 24).

[Kuhfeld, Megan, James Soland, Beth Tarasawa, Angela Johnson, Erik Ruzek, and Jing Liu. \(2020\). Projecting the potential impacts of COVID-19 school closures on academic achievement. \(EdWorkingPaper: 20-226\). Retrieved from Annenberg Institute at Brown University: https://doi.org/10.26300/cdrv-yw05](https://doi.org/10.26300/cdrv-yw05)

NWEA DEFINITIONS

Growth vs. Attainment

Percentile vs. Percentage



Growth = Measured by calculating the student's difference in scores between two points in time (Post-Test Score *MINUS* Pre-Test Score = Amount of Growth). It helps determine how much a student improved in a certain period of time.

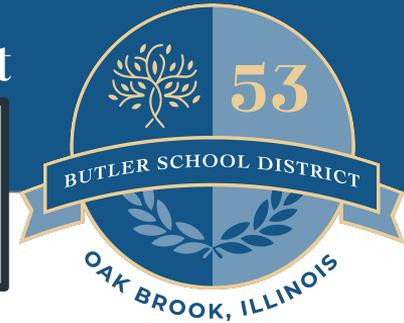
Attainment = Student's achievement score measured from one point in time. It does not take into account any previous scores.

Percentile (%tile) = Describes a relative performance measure (it is a RANKING) in comparison with the sample. *Example: 70th Growth Percentile (School's growth is as good or better than 70% of schools nationally).* This number should never be divided, averaged, multiplied, etc.

Percentage (%) = Describes an absolute measure of how many (i.e. students) meet certain criteria. *Example: 70% of students met or exceeded their growth target (70 out of 100 students met or exceeded their growth target).*

NWEA DEFINITIONS

% Met Growth Target vs. % of Growth Target Met



Percent Met Growth Target

The percentage of students that Met or Exceeded their Growth Target RIT score on the test.

Percent of Growth Target Met

The percentage of the Target RIT Score met based on actual RIT Growth. It is calculated by dividing the students' actual RIT growth by their RIT Growth Target (Projected) Score. It indicates the **degree** of growth a student or student group had.

EXAMPLE: If a student "grew" 9 RIT points and the student's Growth Target Score was 6 RIT points, you would calculate $9/6=150\%$ of Growth Target Met.

Therefore, any percentage above 100% indicates growth targets/projections have been exceeded. A percentage exactly at 100% indicates growth target/projection was met exactly. Any percentage under 100% indicates growth

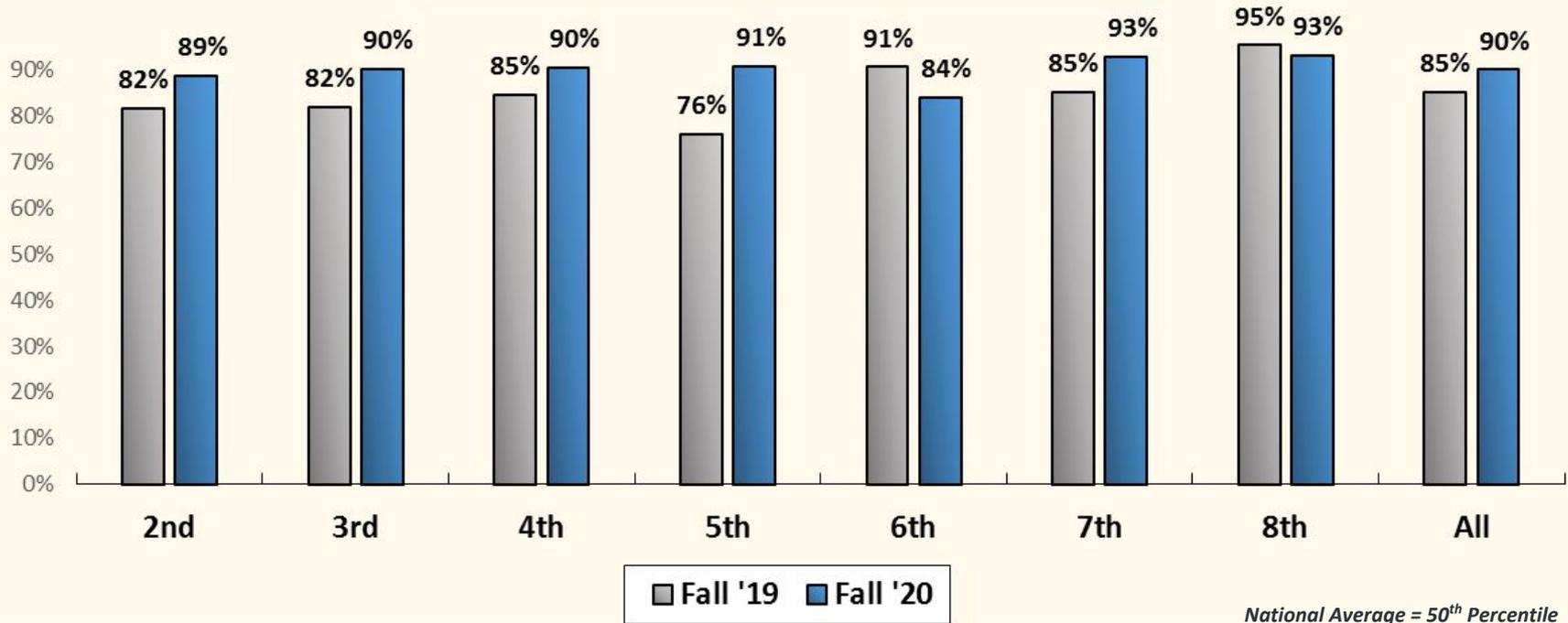
% of Growth Target Met Color Key (approx.)	
130%+	Well Above Average Growth
110% to 129%	Above Average Growth
95% to 109%	Average Growth
75% to 94%	Below Average Growth
Below 75%	Well Below Average Growth



Reading

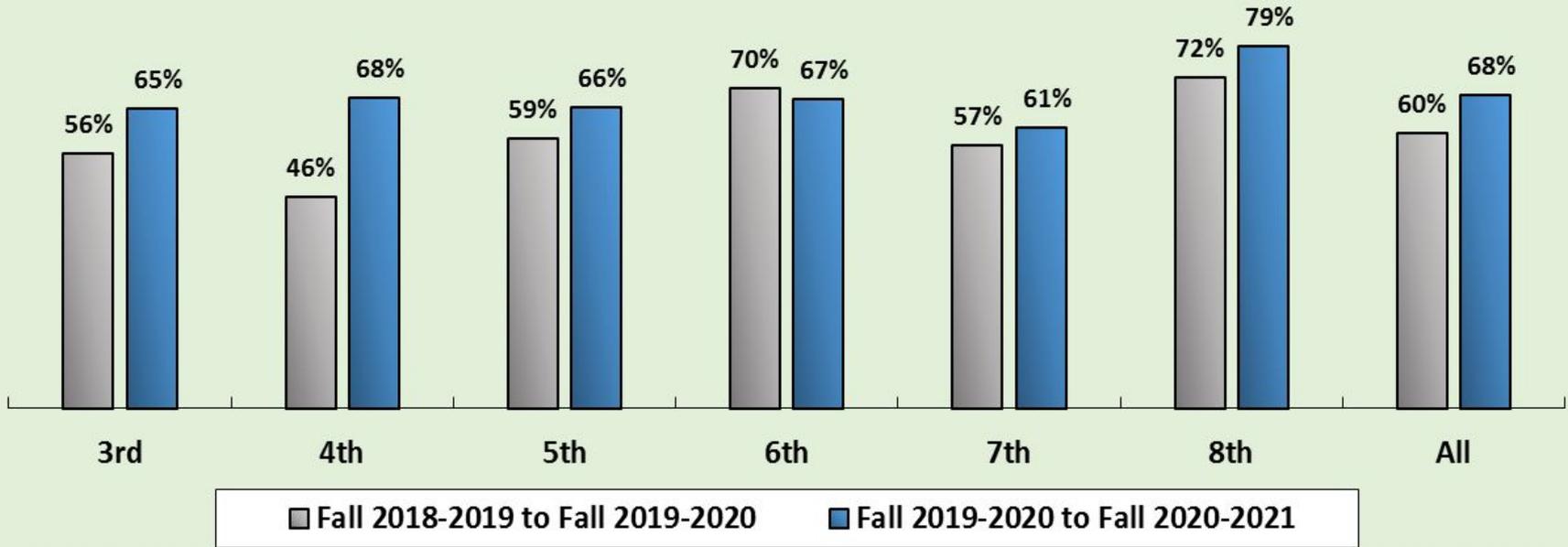


Reading Attainment - % At/Above National Average



- In comparison to Fall '19, all grade level *cohorts* show an **increase** in % of students at or above the 50th percentile in Reading.
- Largest *cohort* **increases** are in **6th grade** (84% in Fall '20 compared to 5th grade 76% in Fall '19), **4th grade** (90% in Fall '20 compared to 3rd grade 82% in Fall '19), and **3rd grade** (90% in Fall '20 compared to 2nd grade 82% in Fall '19).
- Overall, there is a 5% **increase** of students at or above the 50th percentile in Reading from Fall '19 to Fall '20.

Reading Growth - % Met Growth Target

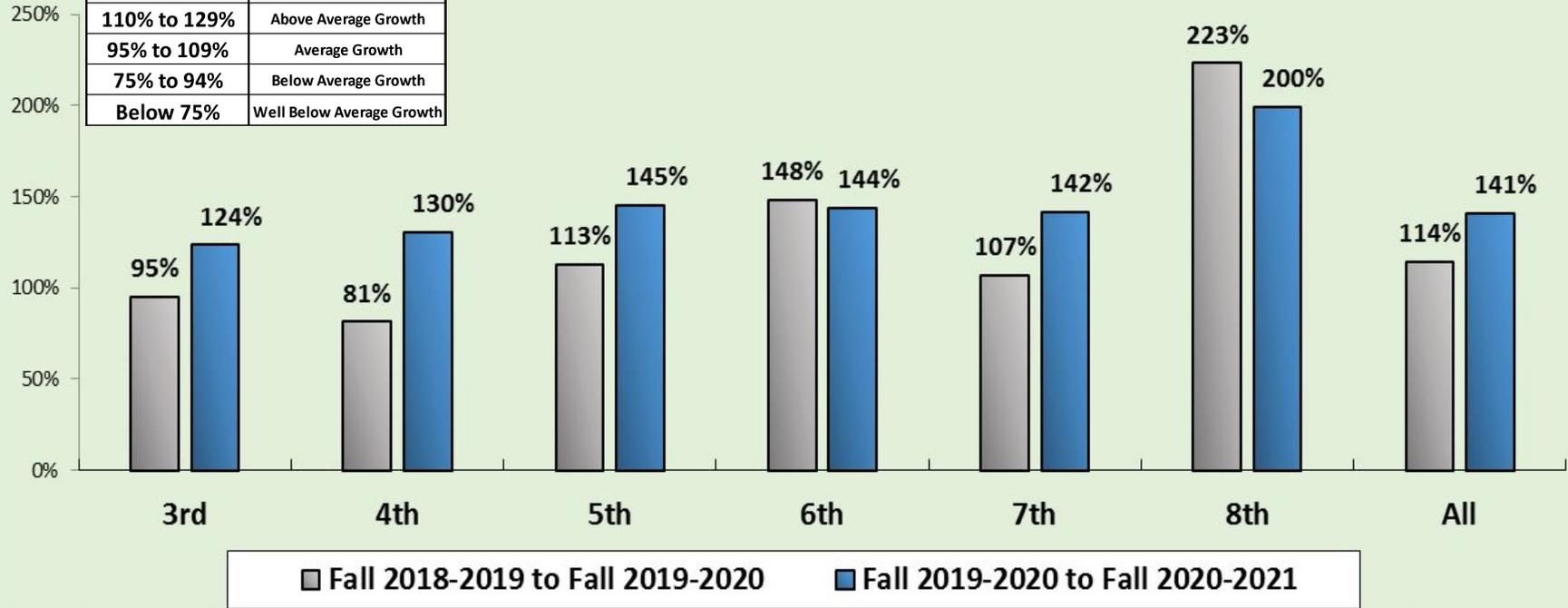


- In comparison to Fall '19, most grade level *cohorts* show an **increase** in the % of students that met their growth target in Fall '20.
- Largest *cohort* **increases** are in **8th grade** (79% in Fall '20 compared to 7th grade 57% in Fall '19), and **5th grade** (66% in Fall '20 compared to 4th grade 46% in Fall '19).
- Overall, there is an **8% increase** of students meeting their growth targets in Reading from Fall '19 to Fall '20.

Reading Growth - % of Growth Target Met

% of Growth Target Met Key

130%+	Well Above Average Growth
110% to 129%	Above Average Growth
95% to 109%	Average Growth
75% to 94%	Below Average Growth
Below 75%	Well Below Average Growth



- In Fall '20, **all grade levels** demonstrated **above average to well above average growth** in Reading.
- Greatest growth was detected in **8th grade**, where students **doubled their expected growth** (200% of Growth Target Met).
- Overall, there was a **greater degree of Reading growth** detected in Fall '20 (141% of Growth Target Met) when compared to Fall '19 (114% of Growth Target Met).

Fall 2019-2020

to

Fall 2020-2021

READING - Growth by Attainment Level

Fall '19 Attainment Range:	Less than 10th		10th-39th		40th-69th		70th-89th		90th+		ALL STUDENTS	
Grade Level	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met
2ND GRADE												
3RD GRADE	1	157.1%	3	188.1%	13	142.5%	17	127.5%	12	82.7%	46	123.6%
4TH GRADE	2	90.9%	3	233.3%	5	170.0%	18	117.7%	9	98.7%	37	130.4%
5TH GRADE	2	261.9%	5	175.6%	17	200.0%	23	101.3%	17	109.9%	64	145.1%
6TH GRADE	1	257.1%	10	249.2%	16	72.8%	20	143.0%	17	136.0%	64	143.9%
7TH GRADE	3	390.9%	1	333.3%	13	162.5%	18	35.8%	19	129.6%	54	142.0%
8TH GRADE	2	525.0%	3	185.7%	18	127.8%	24	197.3%	24	228.6%	71	199.6%
Overall	11	269.4%	25	216.2%	82	146.0%	120	121.1%	98	116.5%	336	141.2%

% of Growth Target Met Color Key	
130%+	Well Above Average Growth
110% to 129%	Above Average Growth
95% to 109%	Average Growth
75% to 94%	Below Average Growth
Below 75%	Well Below Average Growth

- In Fall '20, Overall, all attainment levels demonstrated above average to well above average growth in Reading.
- In Fall '20 in 3rd, 4th, & 5th grade, the least amount of Reading growth was detected in higher attaining students (70th %tile and higher).
- In Fall '20 in 6th grade, middle attaining students (40th-69th %tile) demonstrated well below average growth (72.8% of Growth Target Met) in Reading.
- In Fall '20 in 7th grade, semi-high attaining students (70th-89th %tile) demonstrated well below average growth in Reading.
- In Fall '20 in 8th grade, above average & well above average growth was detected across all attainment levels in Reading.

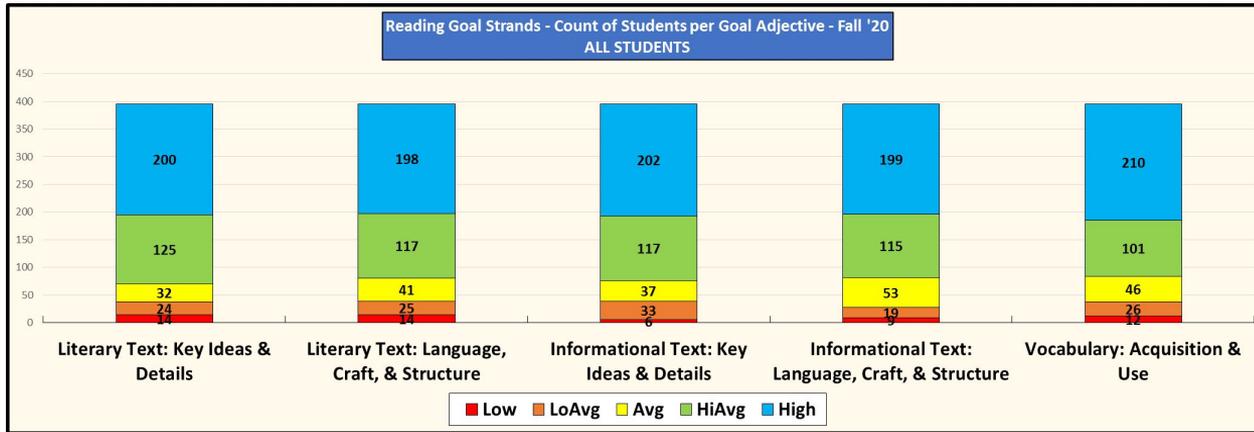
READING GOAL STRANDS BY GRADE - Avg RIT Score

Color Legend

Greater than 5 RIT Pts from previous term

Less than or equal to 5 RIT Pts from previous term

Fall 2019-2020 to Fall 2020-2021	Literary Text: Key Ideas & Details	Literary Text: Key Ideas & Details	Literary Text: Language, Craft, & Structure	Literary Text: Language, Craft, & Structure	Informational Text: Key Ideas & Details	Informational Text: Key Ideas & Details	Informational Text: Language, Craft, & Structure	Informational Text: Language, Craft, & Structure	Vocabulary: Acquisition & Use	Vocabulary: Acquisition & Use
Grade Level	Fall '19	Fall '20	Fall '19	Fall '20	Fall '19	Fall '20	Fall '19	Fall '20	Fall '19	Fall '20
2nd Grade	188.0	196.1	187.5	191.6	188.0	192.4	186.1	194.1	187.4	194.9
3rd Grade	202.1	208.1	201.0	204.2	200.3	204.0	196.9	205.6	199.7	203.3
4th Grade	209.4	213.3	207.5	212.0	208.9	211.1	205.5	211.9	209.7	212.2
5th Grade	217.3	219.7	215.8	216.5	215.5	218.5	215.8	216.4	217.0	219.8
6th Grade	220.5	224.7	220.5	223.5	223.9	223.9	222.1	224.1	224.1	223.4
7th Grade	224.7	226.0	226.8	227.8	227.9	227.4	225.9	227.6	228.8	228.9
8th Grade	235.2	231.7	232.7	232.9	235.8	234.7	233.8	235.0	234.0	234.1
Overall	215.8	219.3	215.1	218.0	216.4	218.7	214.4	218.9	216.5	219.1



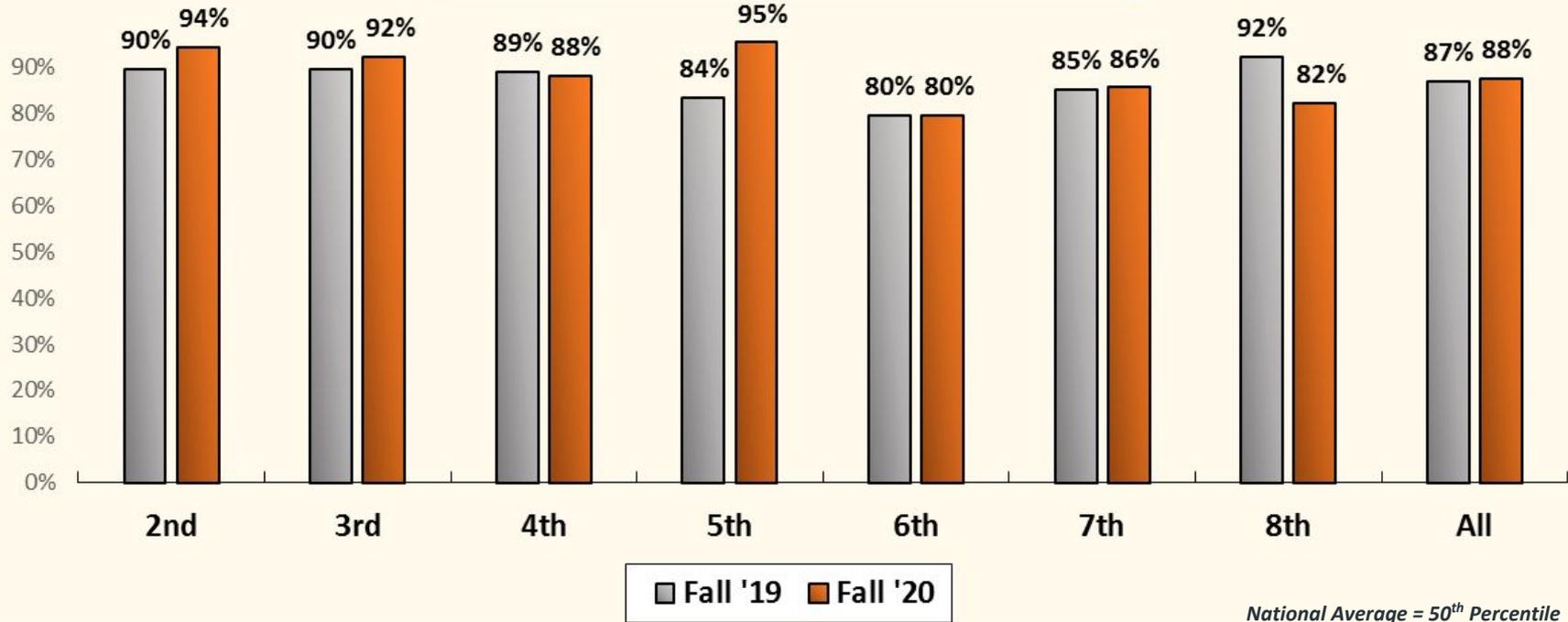
- Overall in Fall '20, **increases** in Reading RIT scores were detected in all Goal Strands when compared to Fall '19.
- In Fall '20, the **greatest increases** in average Reading RIT scores were detected in Literary Text: Key Ideas & Details, Informational Text: Language, Craft, & Structure, and Vocabulary: Acquisition & Use.



Math

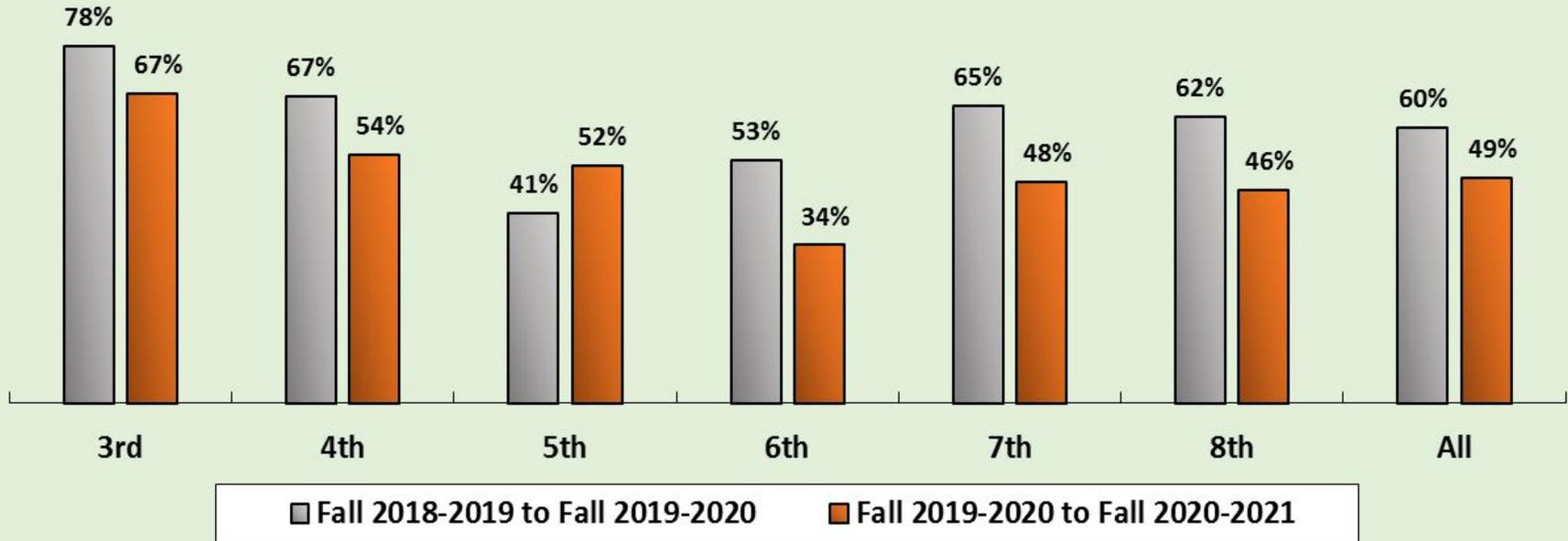


Math Attainment - % At/Above National Average



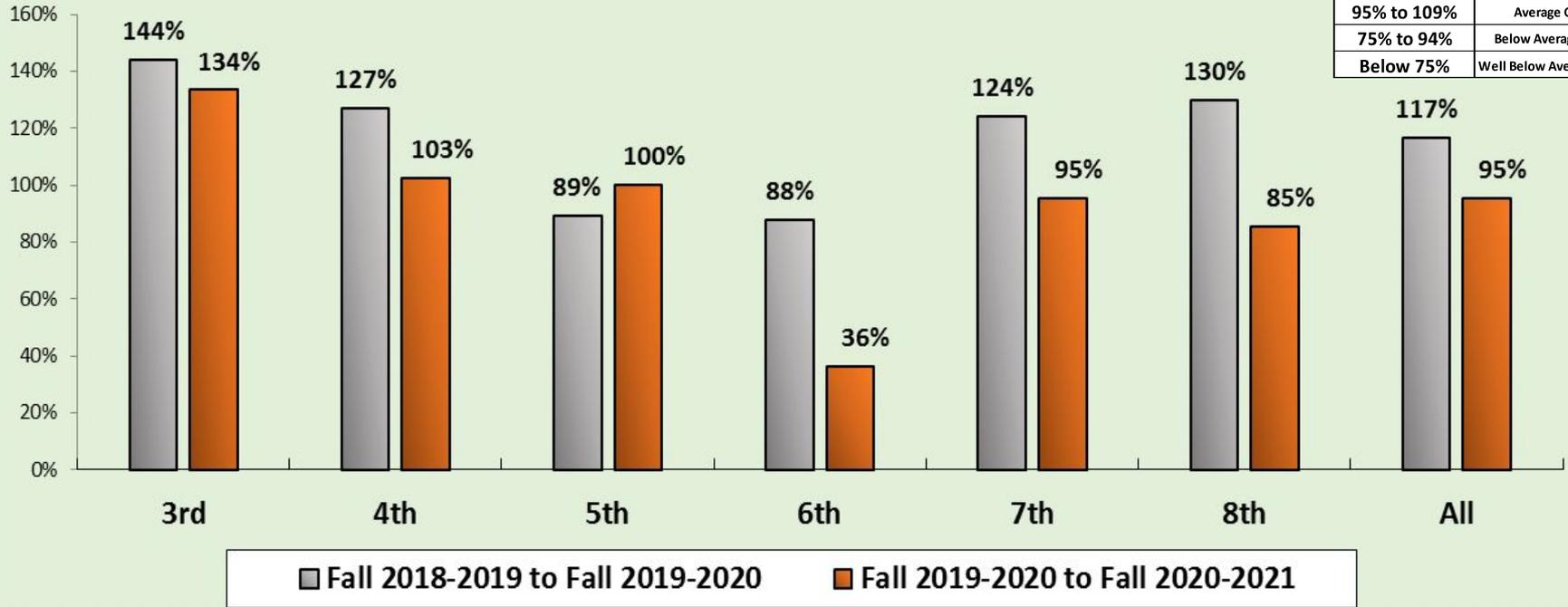
- In comparison to Fall '19, grade level cohorts that showed an **increase** in the % of students at or above the 50th percentile in Math were **3rd grade** (92% in Fall '20 compared to 2nd grade 90% in Fall '19), **5th grade** (95% in Fall '20 compared to 4th grade 89% in Fall '19), and **7th grade** (86% in Fall '20 compared to 6th grade 80% in Fall '19).
- In comparison to Fall '19, grade level cohorts that showed a **slight decrease** in the % of students at or above the 50th percentile in Math were **4th grade** (88% in Fall '20 compared to 3rd grade 90% in Fall '19), **6th grade** (80% in Fall '20 compared to 5th grade 84% in Fall '19), and **8th grade** (82% in Fall '20 compared to 7th grade 85% in Fall '19).
- Overall, the % of students at or above the 50th percentile in Math from Fall '19 to Fall '20 remained essentially the same (88% in Fall '20 compared to 87% in Fall '19).

Math Growth - % Met Growth Target



- In comparison to Fall '19, all 4th-8th grade level *cohorts* show a **decrease** in the % of students that met their growth target in Math in Fall '20.
- Largest *cohort decreases* are in **8th grade** (46% in Fall '20 compared to 7th grade 65% in Fall '19), and **4th grade** (54% in Fall '20 compared to 3rd grade 78% in Fall '19).
- Overall, there is an 11% **decrease** of students meeting their growth targets in Math from Fall '19 to Fall '20.

Math Growth - % of Growth Target Met



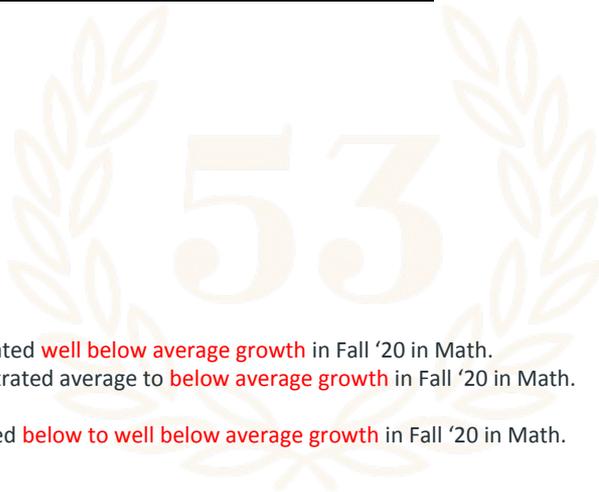
% of Growth Target Met Key	
130%+	Well Above Average Growth
110% to 129%	Above Average Growth
95% to 109%	Average Growth
75% to 94%	Below Average Growth
Below 75%	Well Below Average Growth

- In Fall '20, 4th, 5th, & 7th grade demonstrated average growth, and 6th & 8th grade demonstrated below average to well below average growth in Math.
- In Fall '20, 3rd grade demonstrated well above average growth in Math (134% of Growth Target Met).
- Overall, there was average Math growth detected in Fall '20 (95% of Growth Target Met) when compared to the above average Math growth detected overall in Fall '19 (117% of Growth Target Met).

Fall 2019-2020 to Fall 2020-2021		MATHEMATICS - Growth by Attainment Level									
Fall '19 Attainment Range:		10th-39th		40th-69th		70th-89th		90th+		ALL STUDENTS	
Grade Level	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	# Pre & Post Tested	% of Growth Target Met	
2ND GRADE											
3RD GRADE	2	185.7%	11	109.1%	11	118.4%	22	149.2%	46	133.5%	
4TH GRADE	2	50.0%	4	56.8%	7	74.0%	23	126.6%	37	102.5%	
5TH GRADE	5	163.3%	11	108.2%	15	90.7%	33	92.8%	64	100.3%	
6TH GRADE	7	54.3%	19	51.8%	13	47.4%	25	17.3%	64	36.4%	
7TH GRADE	8	62.5%	7	61.2%	19	119.2%	19	82.9%	54	95.4%	
8TH GRADE	9	105.8%	12	93.1%	15	59.0%	35	89.9%	71	85.5%	
Overall	33	103.7%	64	85.8%	80	91.0%	157	98.4%	336	95.3%	

% of Growth Target Met Color Key	
130%+	Well Above Average Growth
110% to 129%	Above Average Growth
95% to 109%	Average Growth
75% to 94%	Below Average Growth
Below 75%	Well Below Average Growth

- Overall in Fall '20, generally **all attainment levels** demonstrated average to **below average growth** in Math.
- In **3rd grade**, **above average & well above average growth** was detected across all attainment levels in Fall '20 in Math.
- In **4th grade**, the highest attaining students (90th %tile+) demonstrated **above average growth** while all other students demonstrated **well below average growth** in Fall '20 in Math.
- In **5th grade**, the lowest attaining students (10th-39th) demonstrated **well above average growth** while all other students demonstrated average to **below average growth** in Fall '20 in Math.
- In **6th grade**, **well below average growth** was detected across all attainment levels in Fall '20 in Math.
- In **7th grade**, **above average growth** was detected in semi-high attaining students (70th-89th) while all other students demonstrated **below to well below average growth** in Fall '20 in Math.
- In **8th grade**, average to **well below average growth** was detected across all attainment levels in Fall '20 in Math.



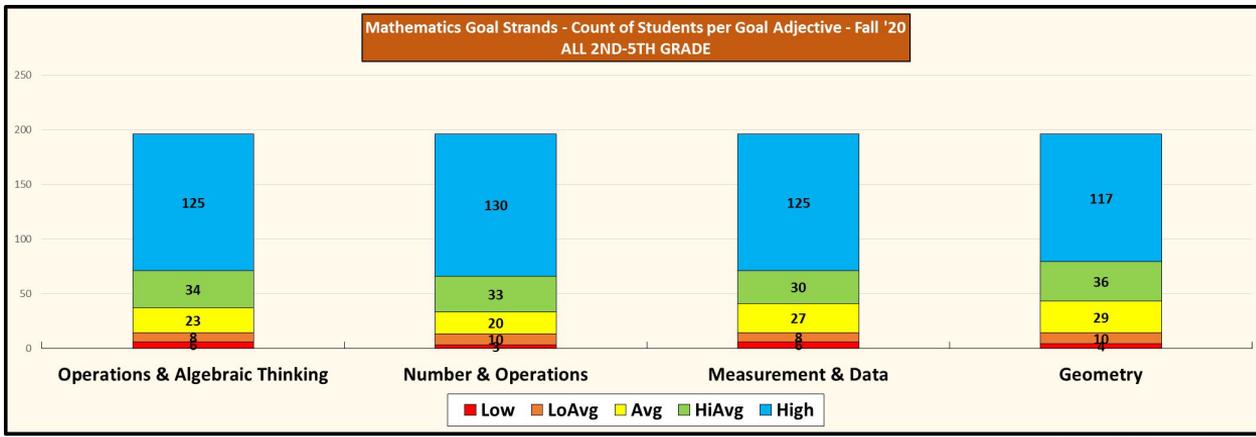
MATHEMATICS GOAL STRANDS BY GRADE - Avg RIT Score (2nd-5th Grade)

Color Legend

Greater than 5 RIT Pts from previous term

Less than or equal to 5 RIT Pts from previous term

Fall 2019-2020 to Fall 2020-2021	MATHEMATICS GOAL STRANDS BY GRADE - Avg RIT Score (2nd-5th Grade)							
	Operations & Algebraic Thinking	Operations & Algebraic Thinking	Number & Operations	Number & Operations	Measurement & Data	Measurement & Data	Geometry	Geometry
Grade Level	Fall '19	Fall '20	Fall '19	Fall '20	Fall '19	Fall '20	Fall '19	Fall '20
2nd Grade	194.3	198.7	190.2	196.3	189.7	199.5	194.9	199.5
3rd Grade	207.0	207.6	206.0	208.8	210.7	207.7	211.4	205.3
4th Grade	219.0	218.1	220.9	220.1	219.9	217.2	220.8	220.9
5th Grade	226.9	229.5	229.5	235.5	228.0	230.6	223.5	225.6
All 2nd-5th Grade	213.8	215.6	214.0	217.9	214.0	215.9	214.2	214.4



- In **2nd-5th grade overall**, **increases** in average Math RIT scores were generally detected in all Goal Strands in Fall '20 when compared to Fall '19.
- In Fall '20, **3rd grade** performed **significantly lower** (205.3 average RIT score) than last year's 3rd grade in Geometry when compared to Fall '19 (211.4 average RIT score).

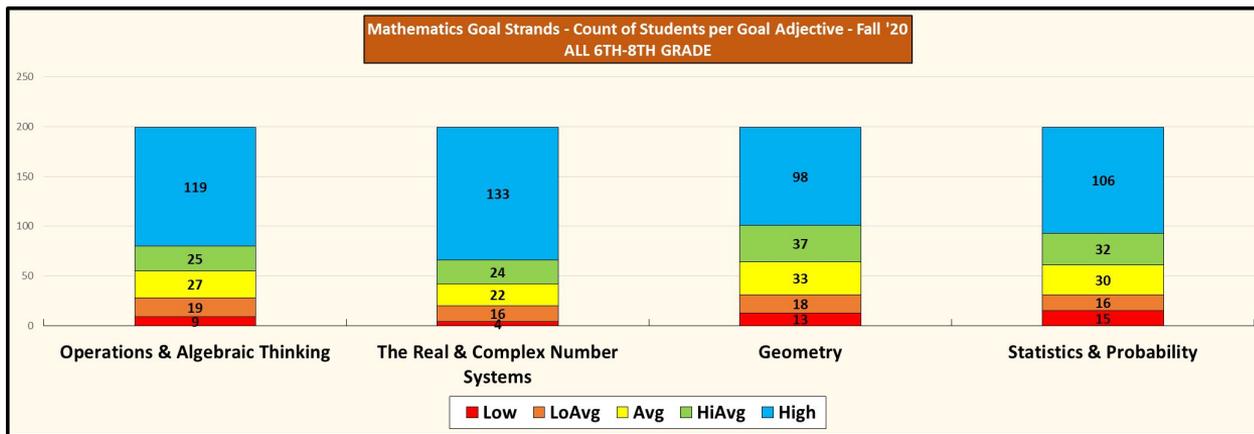
MATHEMATICS GOAL STRANDS BY GRADE - Avg RIT Score (6th-8th Grade)

Color Legend

Greater than 5 RIT Pts from previous term

Less than or equal to 5 RIT Pts from previous term

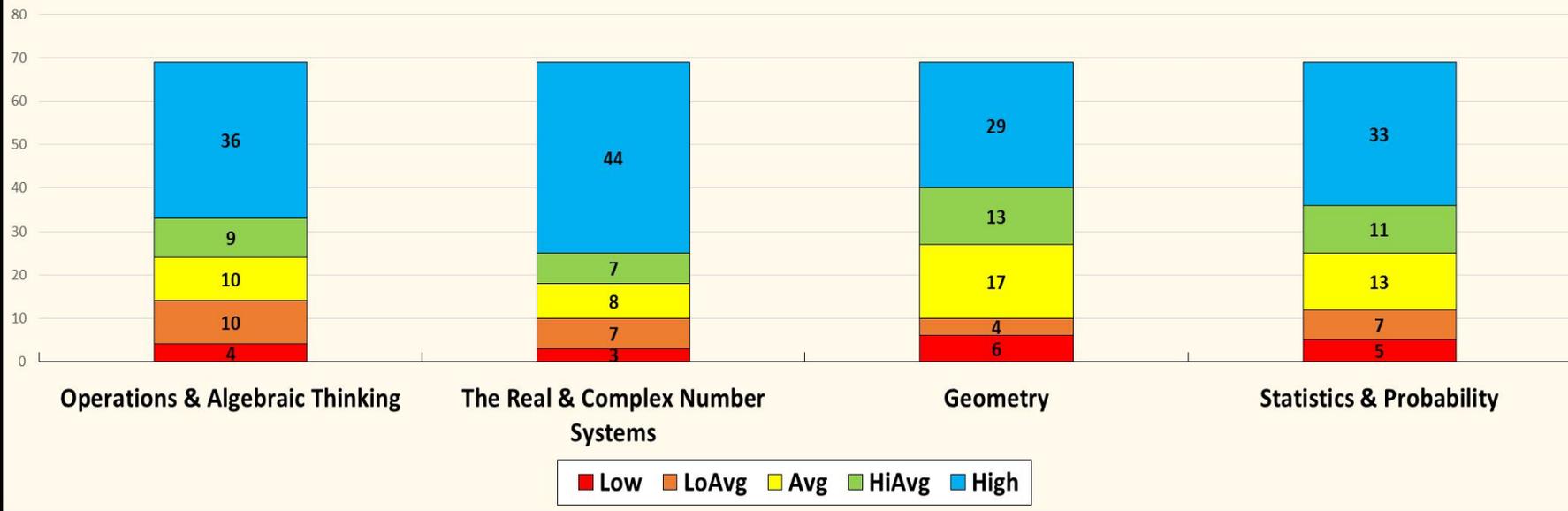
Fall 2019-2020 to Fall 2020-2021	Operations & Algebraic Thinking	Operations & Algebraic Thinking	The Real & Complex Number Systems	The Real & Complex Number Systems	Geometry	Geometry	Statistics & Probability	Statistics & Probability
	Fall '19	Fall '20	Fall '19	Fall '20	Fall '19	Fall '20	Fall '19	Fall '20
Grade Level								
6th Grade	232.8	230.6	235.3	233.6	231.5	228.7	229.5	226.0
7th Grade	247.0	242.0	244.6	244.0	242.3	235.9	242.8	234.1
8th Grade	252.0	251.1	252.4	249.2	248.5	249.0	249.5	246.4
All 6th-8th Grade	244.8	241.4	244.7	242.3	241.4	238.3	241.4	235.9



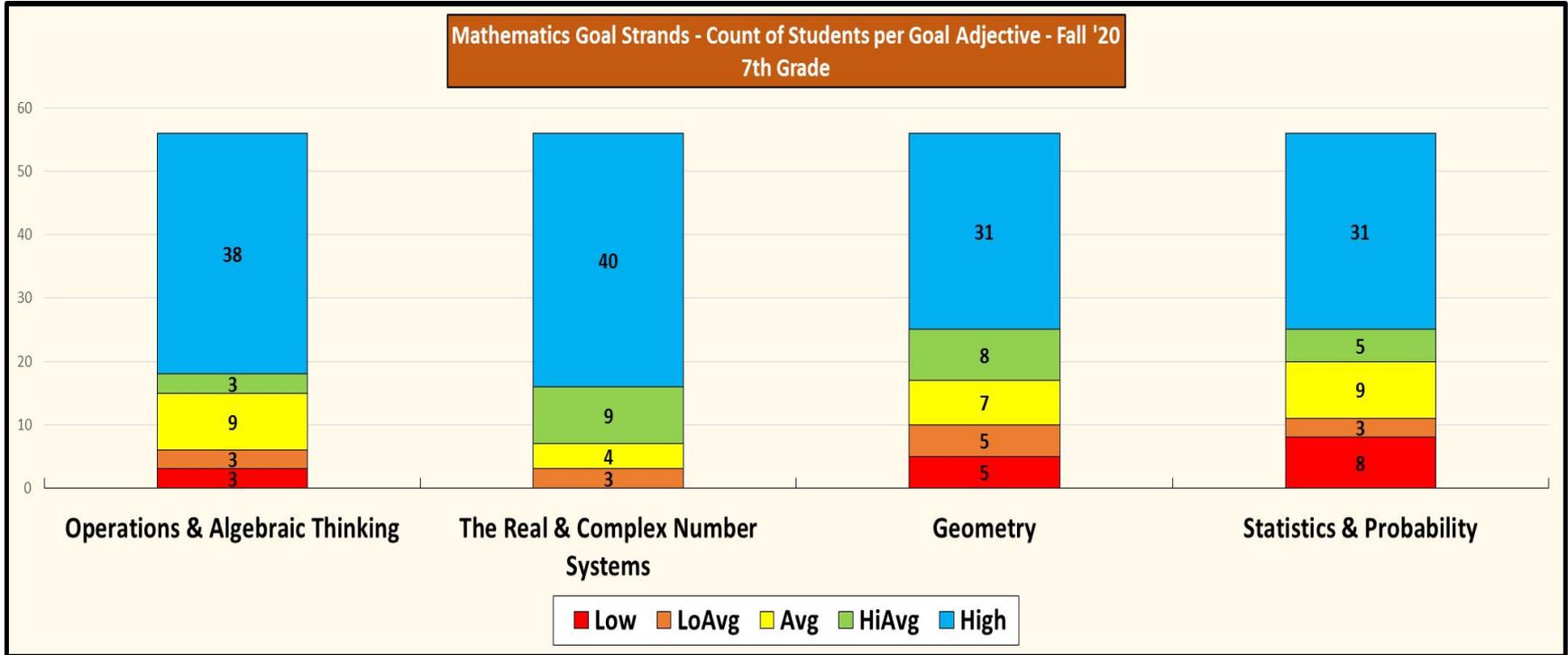
- In Fall '20, **decreases** in average Math RIT scores were generally detected in all Goal Strands and in **all 6th-8th grade levels** when compared to Fall '19.
- In Fall '20, the largest **decrease** in average Math RIT scores occurred in **7th Grade** Operations & Algebraic Thinking, Geometry, and Statistics & Probability Goal Strands when compared to 7th grade in Fall '19.
- In Fall '20, a noticeably greater number of students scored **low/low average/average** in Geometry and Statistics & Probability Goal Strands than the Operations & Algebraic Thinking and The Real & Complex Number Systems Goal Strands.

Mathematics Goals Strands-Grade 6

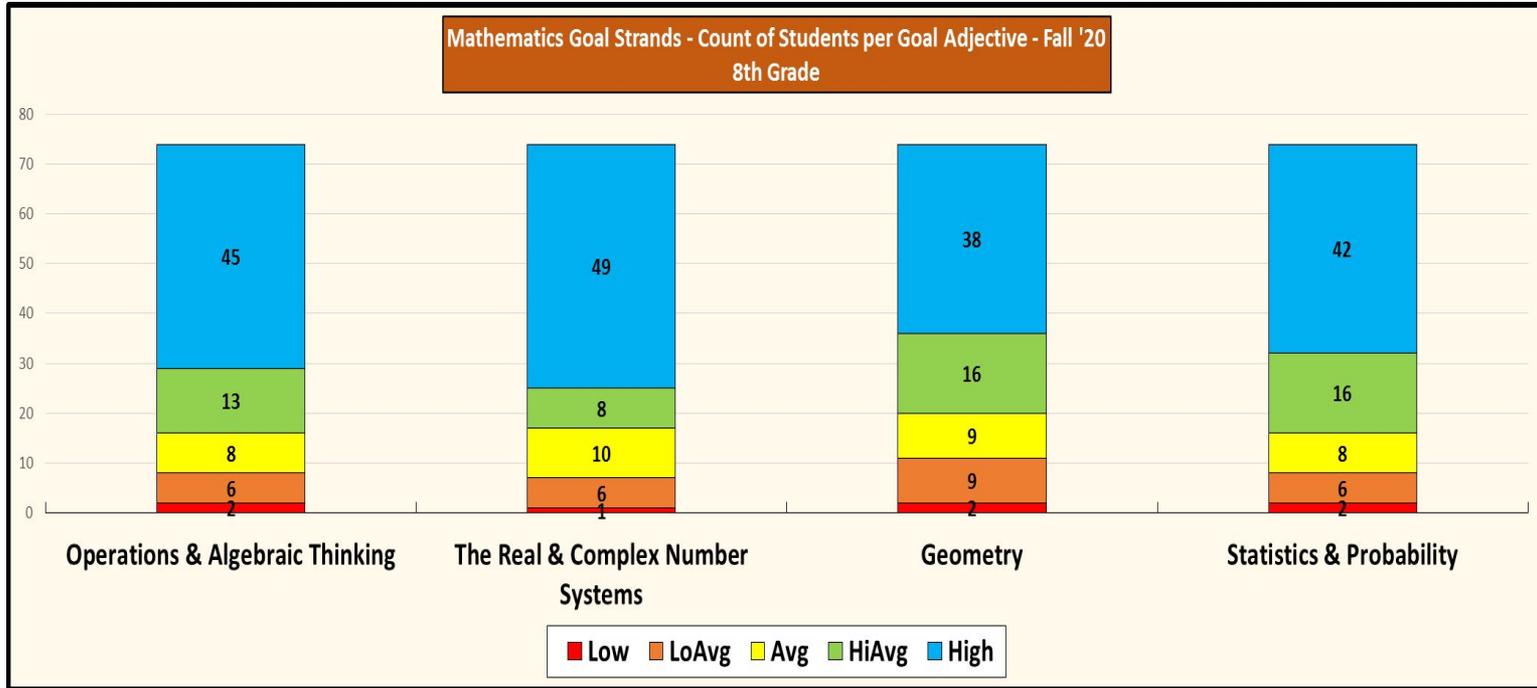
Mathematics Goal Strands - Count of Students per Goal Adjective - Fall '20
6th Grade



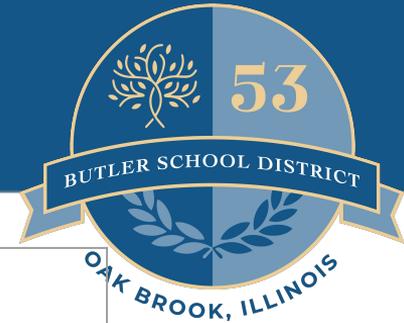
Mathematics Goals Strands-Grade 7



Mathematics Goals Strands-Grade 8



Next Steps



Next Steps	Alignment to Strategic Goals
<p>☉ Maintain a focus on results to drive continuous improvement</p>	<p>1.1.1 Establish an instructional and curricular framework</p> <ul style="list-style-type: none">-Conduct review of core content assessments, identify opportunities for improvements-Review the ongoing process for content area curriculum revisions, alignment with learning standards, local learning initiatives and grade level learning pathways-Continue to review core content assessment data
<p>☉ Commit to differentiated instruction and opportunities for personalized, individual learning</p>	<p>1.2.2 Implement instructional programs that personalize student learning, advance rigor, promote creativity, and provide differentiated learning</p> <ul style="list-style-type: none">-Investigate content discipline tools aligned to learning standards that allow students further differentiated or personalized learning activities-Investigate Personalized Learning data opportunities