



# A Report on the Academic Progress of Former NBS Students

**Salem Public Schools**  
**School Committee Meeting**  
**November 18, 2019**

# Background and History

<i>June 2018</i> <b>Nathaniel Bowditch Closes</b>	293 students reassigned to schools throughout the district
<i>Spring – Fall 2018</i> <b>Transition &amp; Welcoming Supports</b>	Included school welcoming events, family outreach, counseling, and support
<i>April 22, 2019</i> <b>Report: Initial Transition &amp; Welcoming Procedures</b>	Most students were making connections, felt supported, and liked their new school.  Most parents felt that their needs were being met.
<i>Fall 2019</i> <b>MCAS Reports Available</b>	After a full year of instruction, former NBS students took the Spring 2019 MCAS assessment and other assessments in their new schools.



# About the Students

## Enrollment and Demographics

# Assignment of Former NBS Students 2018 vs. Actual Enrollment 2019

	Enrolled October 2018	Enrolled October 2019
Bates Elementary School	32	17
Bentley Academy Charter School	32	26
Carlton Innovation School	9	10
Collins Middle School	102	86
Horace Mann Laboratory School	25	12
Salem High School	n/a	27
Saltonstall Elementary School	30	20
Witchcraft Heights Elementary School	63	49
<b>Total</b>	<b>293</b>	<b>247</b>

# Enrollment of Former NBS Students by Grade, 2018 vs. 2019

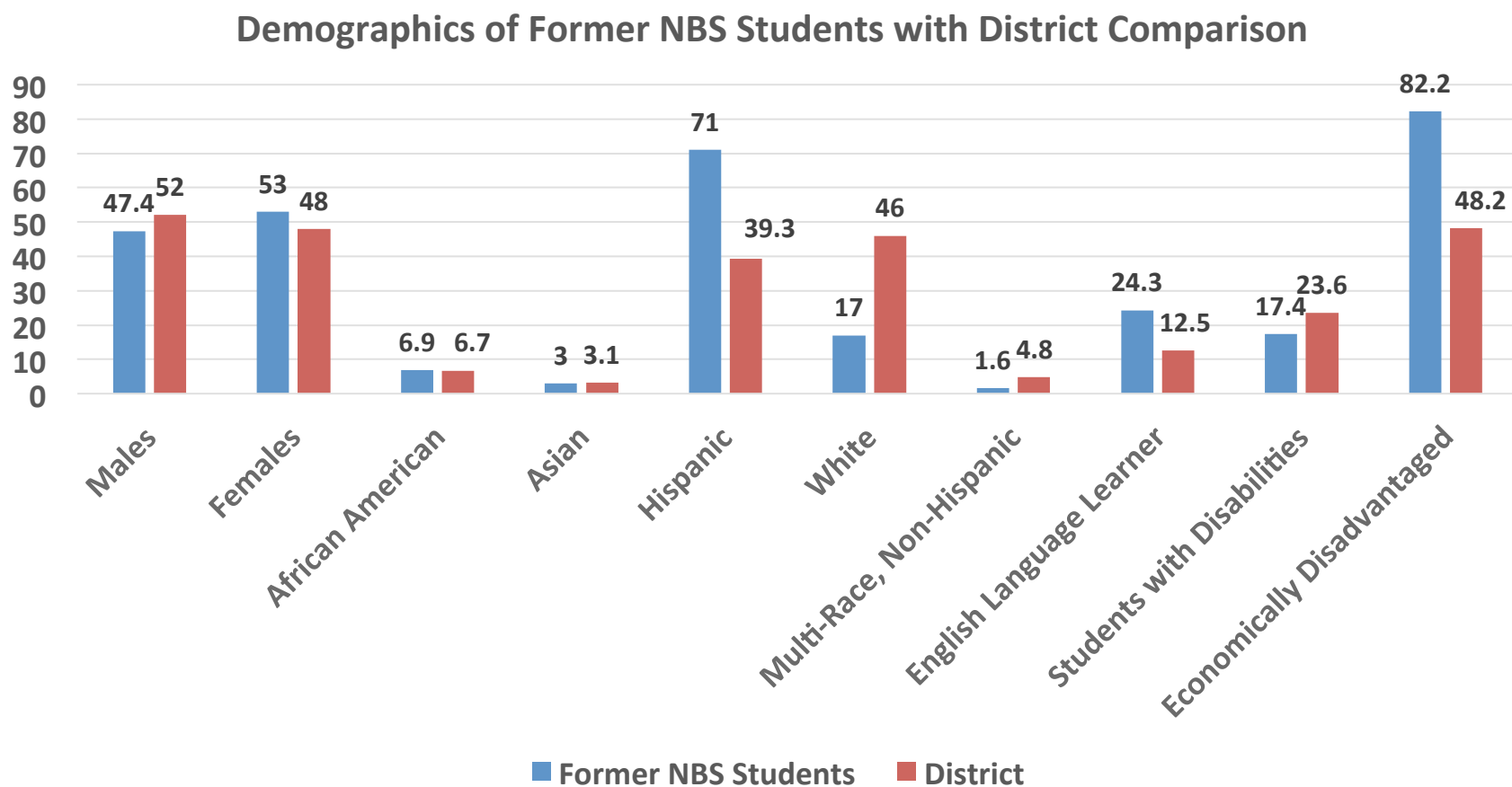
	Enrolled Oct 2018	Enrolled Oct 2019
Gr1	31	
Gr2	30	29
Gr3	37	24
Gr4	40	34
Gr5	36	36
Gr6	42	27
Gr7	36	37
Gr8	41	33
Gr9		27
<b>Total</b>	<b>293</b>	<b>247</b>

## Measures Analyzed for this Report

- Literacy Assessments, Gr. 1-2, 18-19
- MCAS, Gr. 3-8, 18-19
- Attendance, 19-20
- Gr 3-5 School Climate Survey, 18-19
- Gr 6-8 School Climate Survey, 18-19

*Data for former NBS students who matriculated Gr 9 in 2018-19 as well as those who matriculated to Gr 9 this year are not included in this report*

# Demographics of Former NBS Students Compared to District Demographics



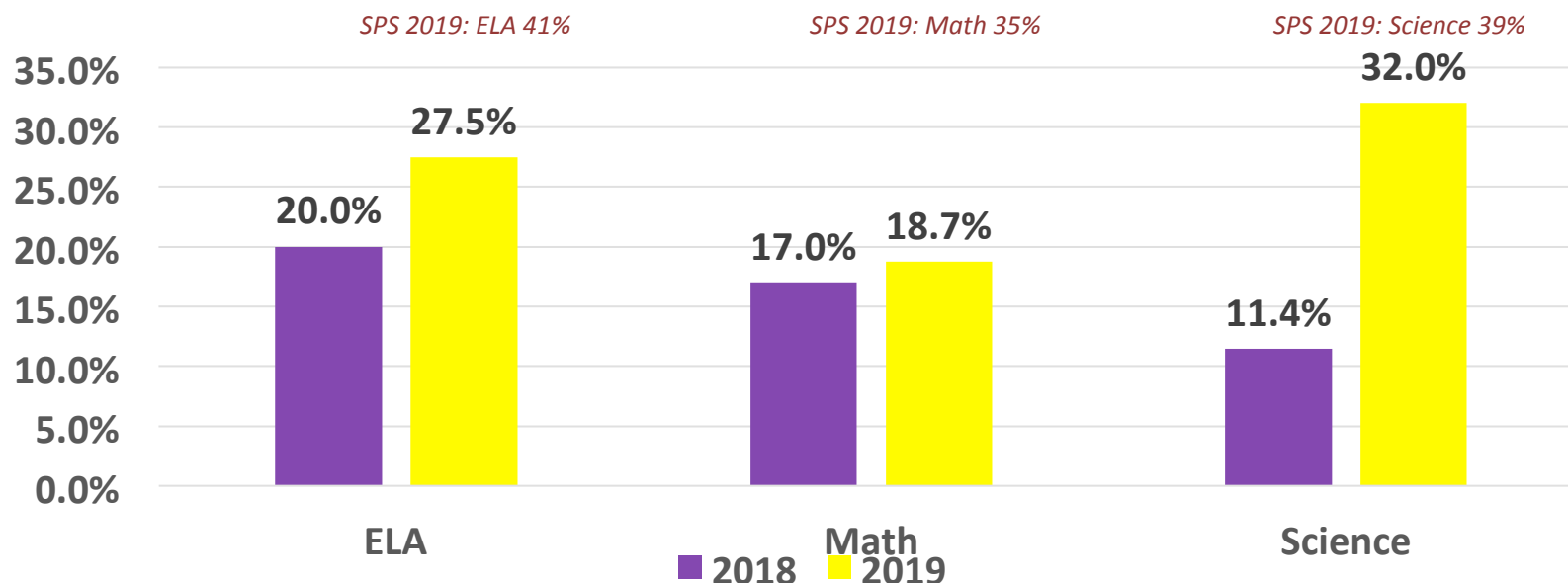


# Student Achievement & Growth

MCAS Results Grades 3-8

# Achievement Levels, Gr. 3-8

## Achievement Levels - % Meeting or Exceeding Expectations, 2018 to 2019 (All Former NBS Students)

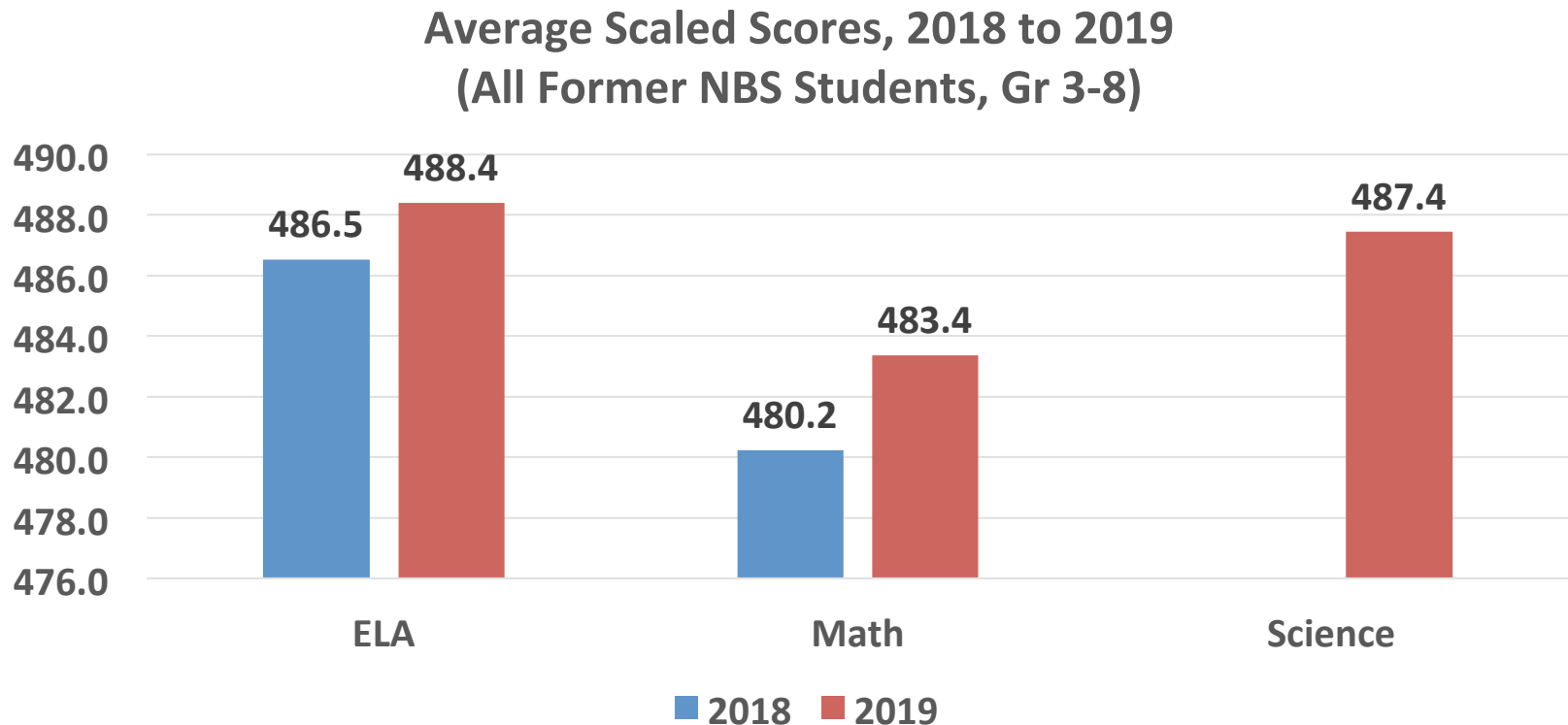


In 2019, the % of former NBS students who were meeting or exceeding expectations increased in all subjects from 2018 levels. This means that more students are mastering learning standards in ELA, Math, and Science.

*Note: the 2019 Science Assessment is Next Generation*



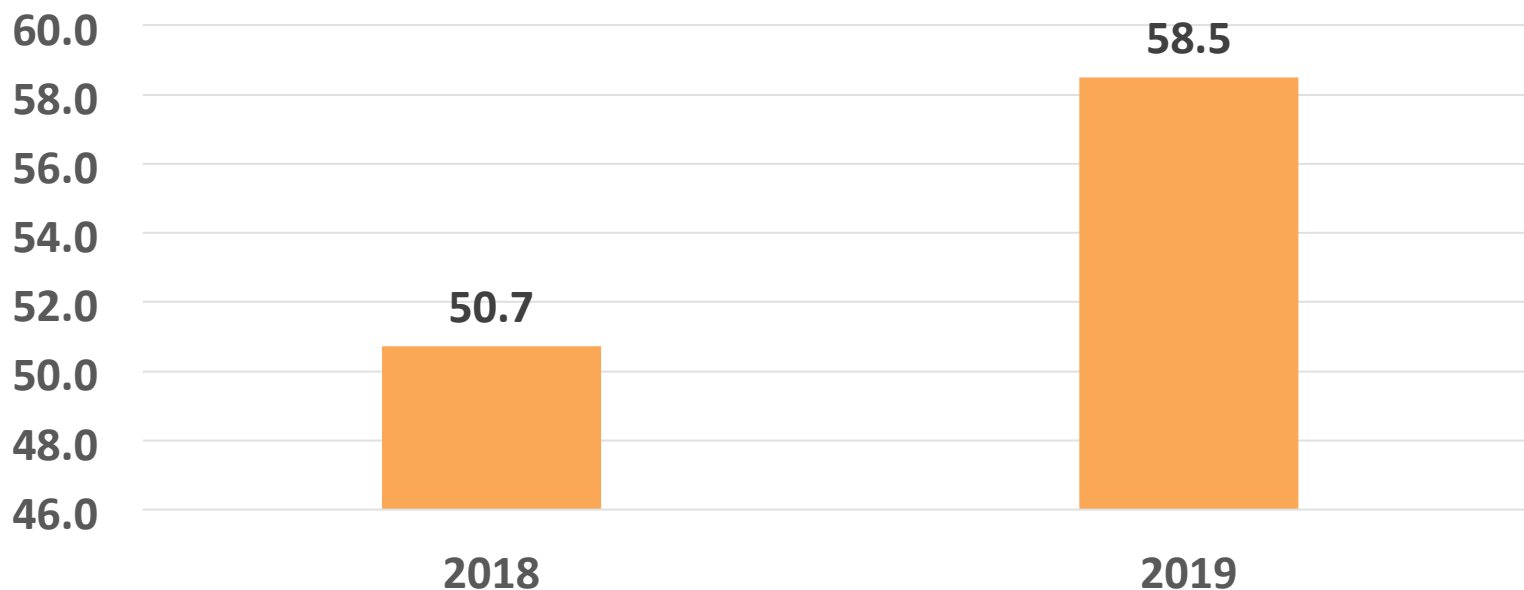
# Avg. Scaled Scores, Gr. 3-8



As a cohort, the Average Scaled Scores on the ELA and Math Next Generation MCAS assessments were higher in 2019 compared with the previous year. This means that the overall achievement levels increased for former NBS students.

# Science CPI, Gr 5

Science CPI, 2018 to 2019  
(All Former NBS Students, Gr 5)

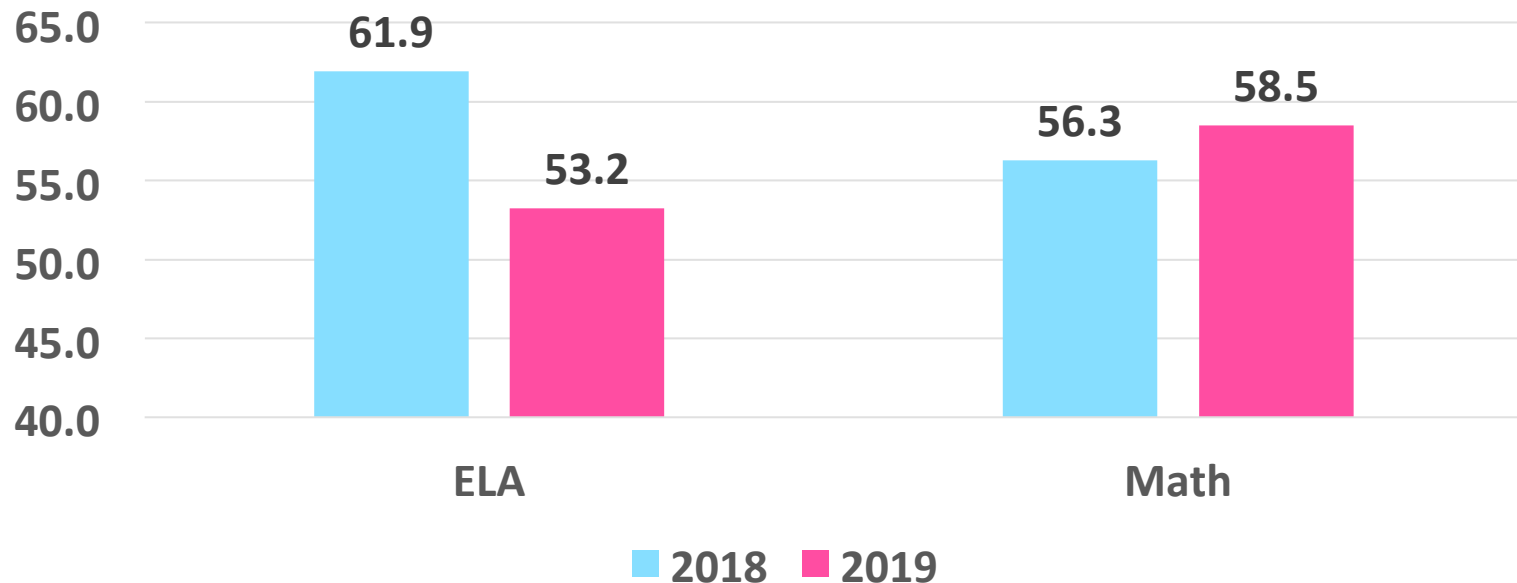


**The average 2019 Science CPI increased by nearly 8 points from 2018.**

*Note: the 2019 Science Assessment is Next Generation*

# Student Growth

Student Growth Percentiles, 2018 to 2019  
(All Former NBS Students)



The growth rate for math increased by over 2 points in 2019. While the growth rate for ELA was not as high in 2019 as it was in 2018, it is still above 50, which means higher than the statewide median and in the “high-moderate” growth range.

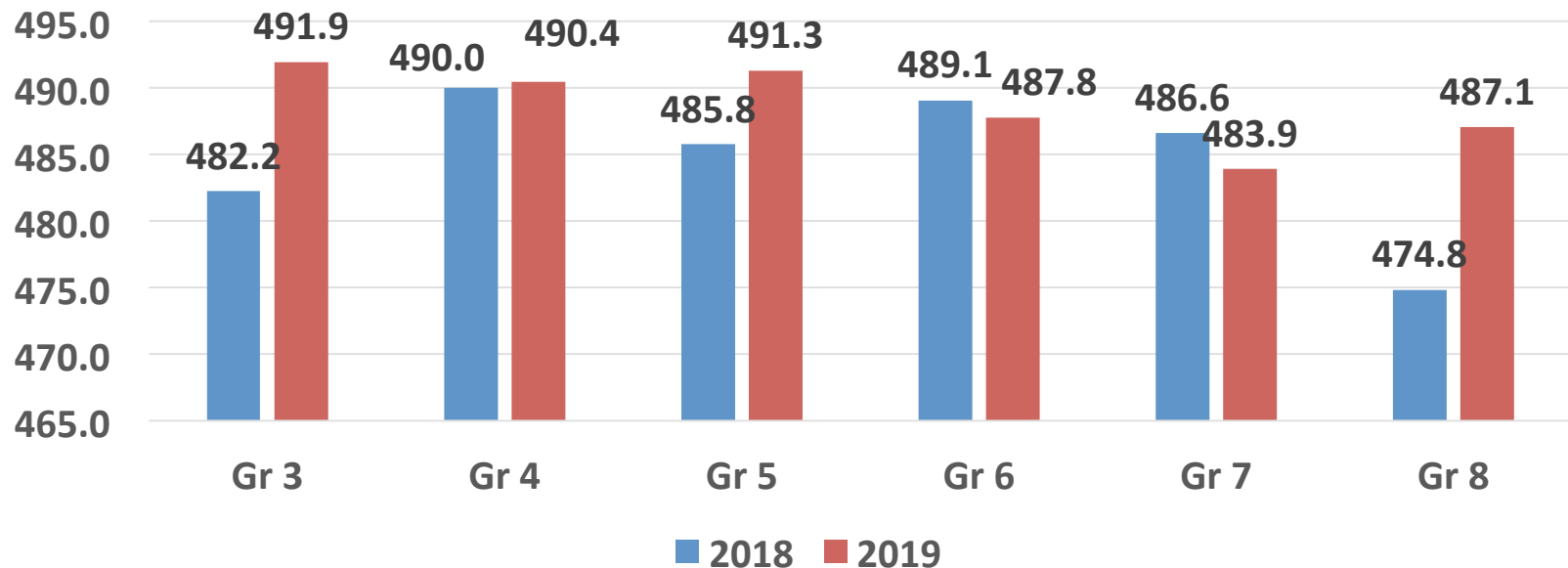


# Student Achievement & Growth by Grade Level

MCAS Results Grades 3-8  
(Grade Levels and Cohort Comparisons)

## ELA Achievement by Grade Level: Avg. Scaled Scores

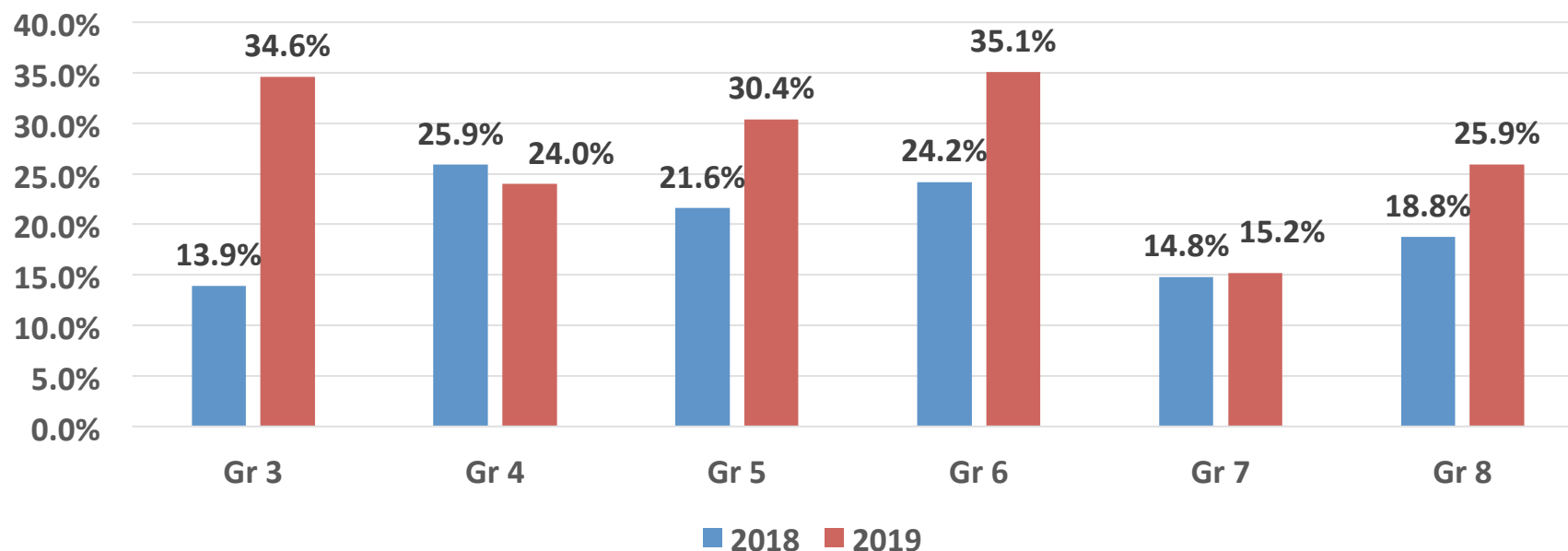
ELA - Average Scaled Scores by Grade Level,  
2018 to 2019 (All Former NBS Students)



Avg. Scaled Scores increased from 2018 in all but two grade levels (Gr 6 and Gr 7) for the former NBS Students. This means, for example, that the group of this year's 5<sup>th</sup> graders who were former NBS students scored higher, on average, than last year's NBS students who were in 5<sup>th</sup> grade at that time.

## ELA Achievement by Grade Level: Achievement Levels

ELA - % Meeting or Exceeding Expectations by Grade Level, 2018 to 2019



A higher percentage of former NBS students met or exceeded ELA expectations in 2019 than in 2018. This was true in five out of six tested grade levels. Only grade 4 saw a slight decrease.

# Scoring Example

	2018	2019
Student 1	3	4
Student 2	4	5
Student 3	5	4
Student 4	5	5
Student 8	6	5
Student 9	6	5
Student 5	7	8
Student 10	9	9
Student 6	10	9
Student 7	11	10
Avg Score	6.6	6.4
% Meets or Exceeds	27.3%	36.4%

Exceeds Expectations	Above 10
Meets Expectations	8 to 10
Partially Meets Expectations	5 to 7
Does Not Meet	0 to 4

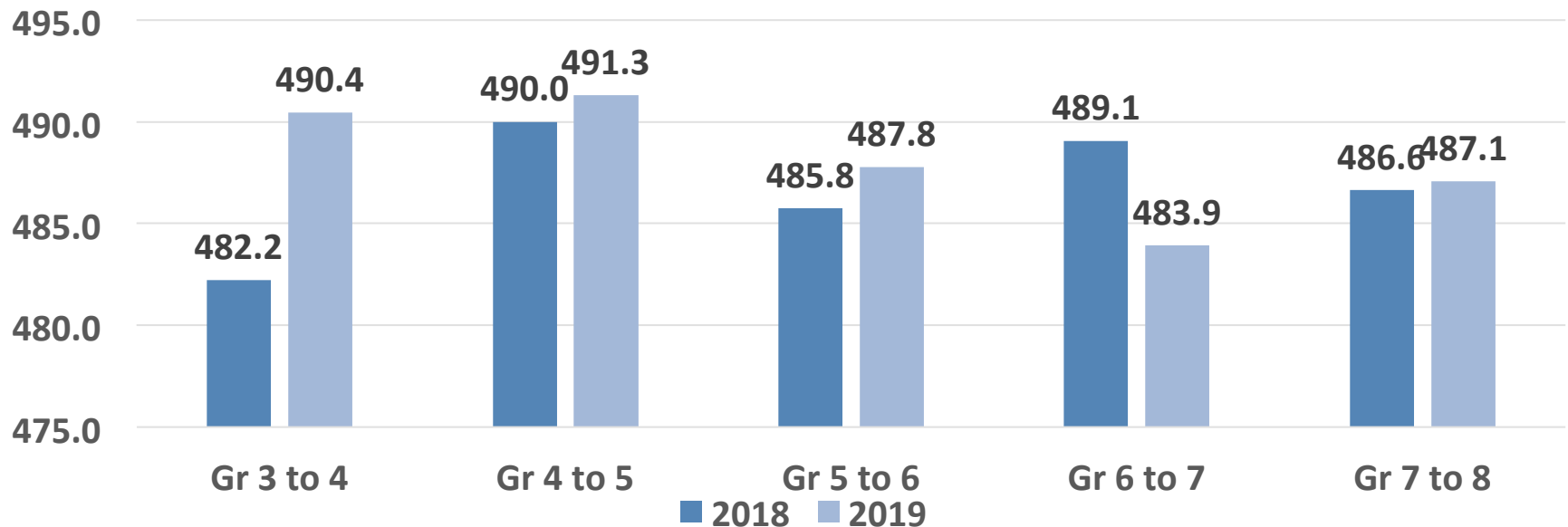
Although more students are meeting or exceeding expectations in 2019, the avg. score went down because there weren't as many high students (of those meeting or exceeding) scoring as high as they had in 2018

In 2018,  
3 students  
meeting or  
exceeding

In 2019,  
4 students  
meeting or  
exceeding

# ELA Achievement by Cohort: Avg. Scaled Scores

ELA Gr Lvl Cohorts - Avg Scaled Scores, 2018 to 2019

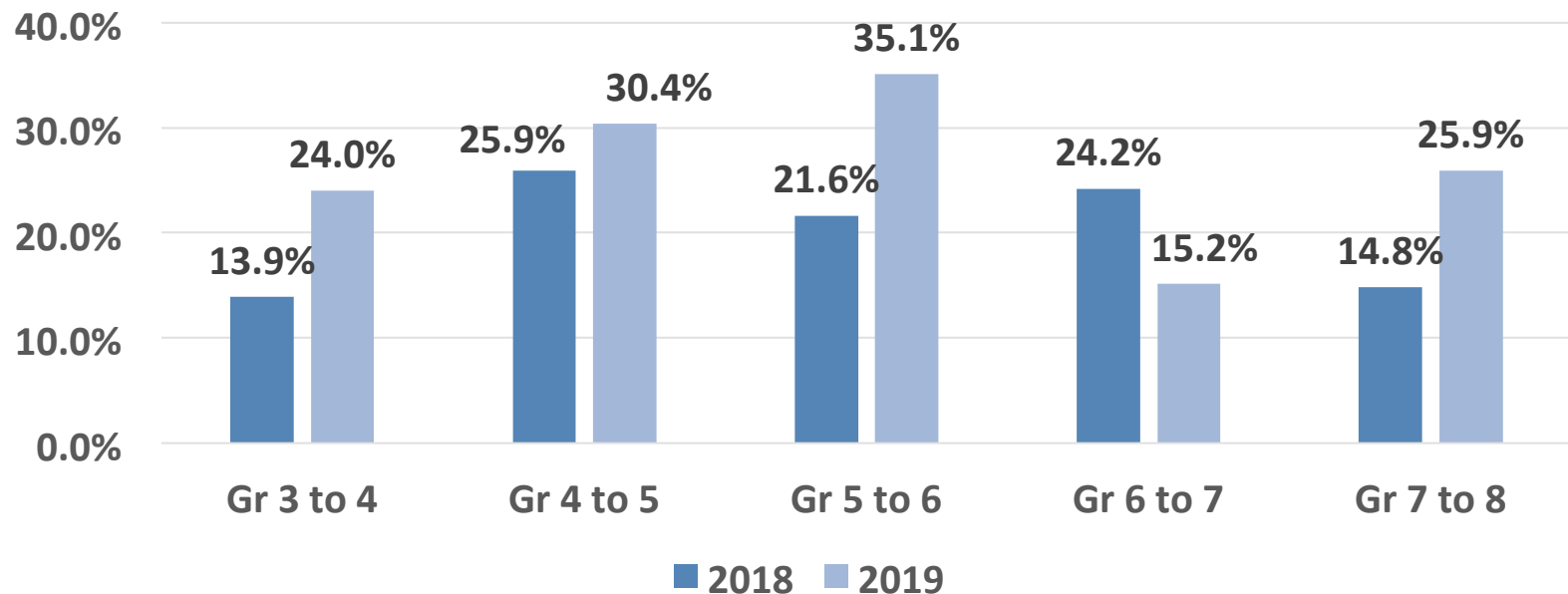


Former NBS students increased their avg. scaled score in ELA in 2019 in four out of five grade level cohorts. This means, for example, that the 2019 4<sup>th</sup> graders who were former NBS students scored higher in ELA than the same group of students had scored when they were in 3<sup>rd</sup> grade during the previous year. Only the grade 6 - 7 cohort did not perform as well in 2019 as they had in 2018.



# ELA Achievement by Cohort: Achievement Levels

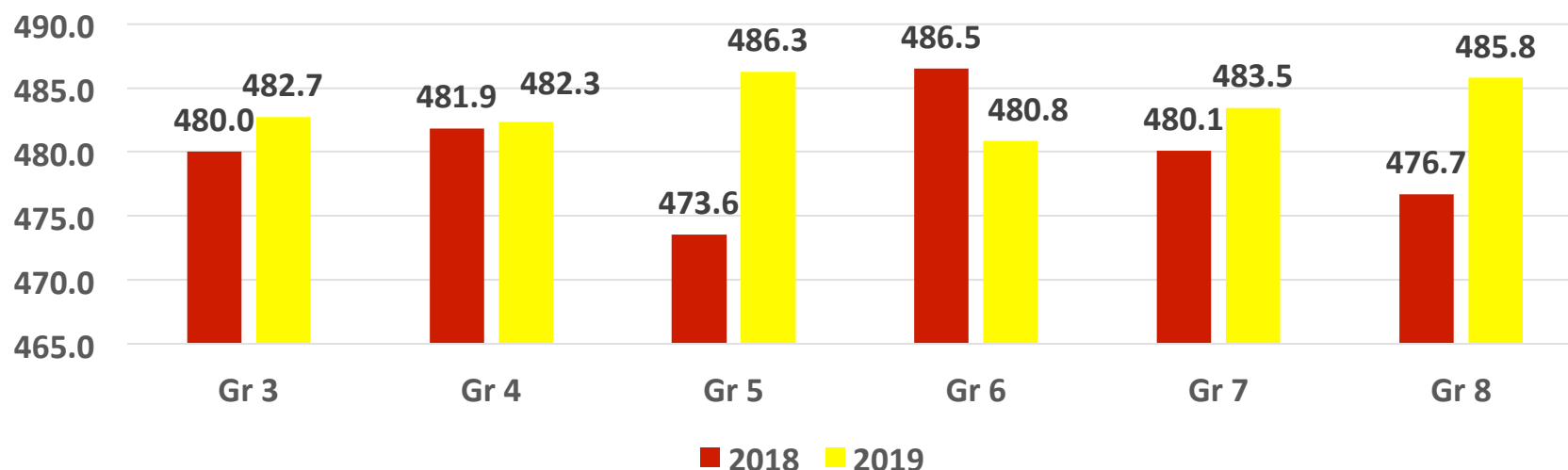
ELA Gr Lvl Cohorts - % Meets or Exceeds, 2018 to 2019



More of the former NBS students met or exceeded expectations in ELA in 2019 as they advanced to the next grade level. With the exception of the Grade 6 to 7 cohort, the % of students who met or exceeded expectations in ELA increased. This means, for example, that more of this year's 6<sup>th</sup> graders met or exceeded expectations in 2019 than when the same students were in 5<sup>th</sup> in 2018.

## Math Achievement by Grade Level – Avg. Scaled Scores

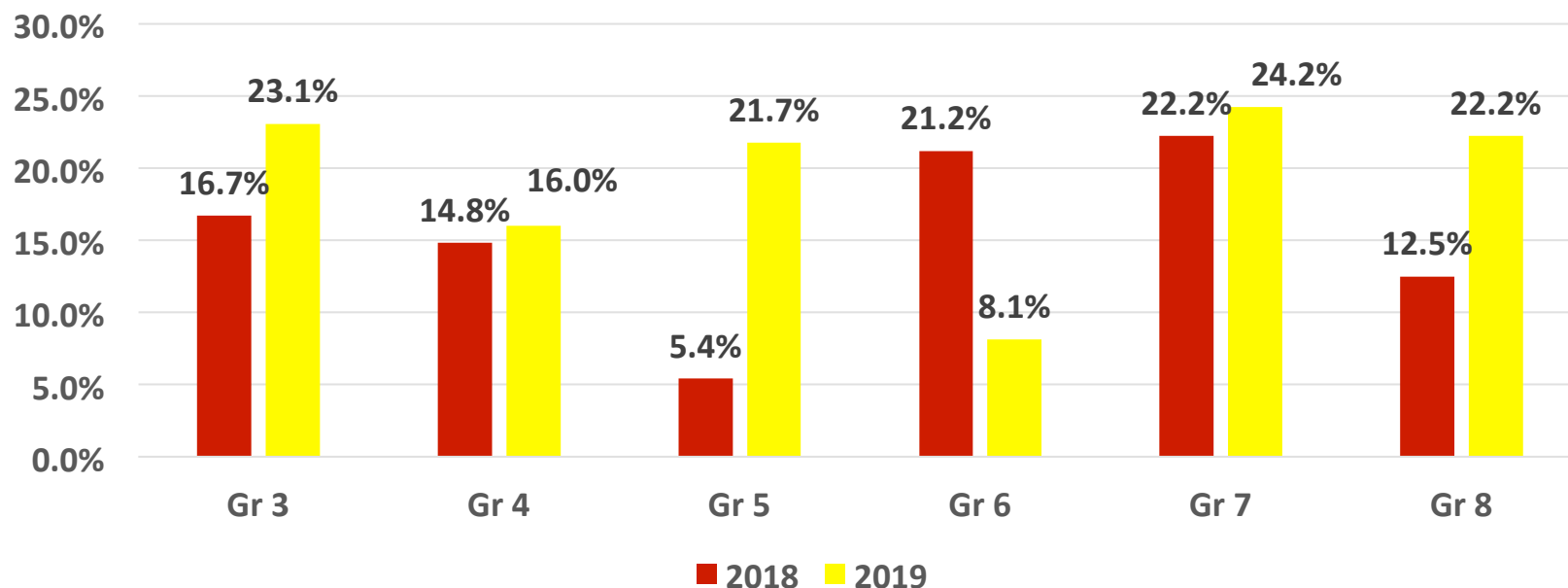
Math – Avg. Scaled Score by Grade Level, 2018 to 2019  
(All Former NBS Students)



Avg. Scaled Scores increased from 2018 in all but one grade level (Gr 6) for former NBS Students. This means, for example, that the group of this year's 5<sup>th</sup> graders who were former NBS students scored higher, on average, than last year's NBS students who were in 5<sup>th</sup> grade at that time.

# Math Achievement by Grade Level: Achievement Levels

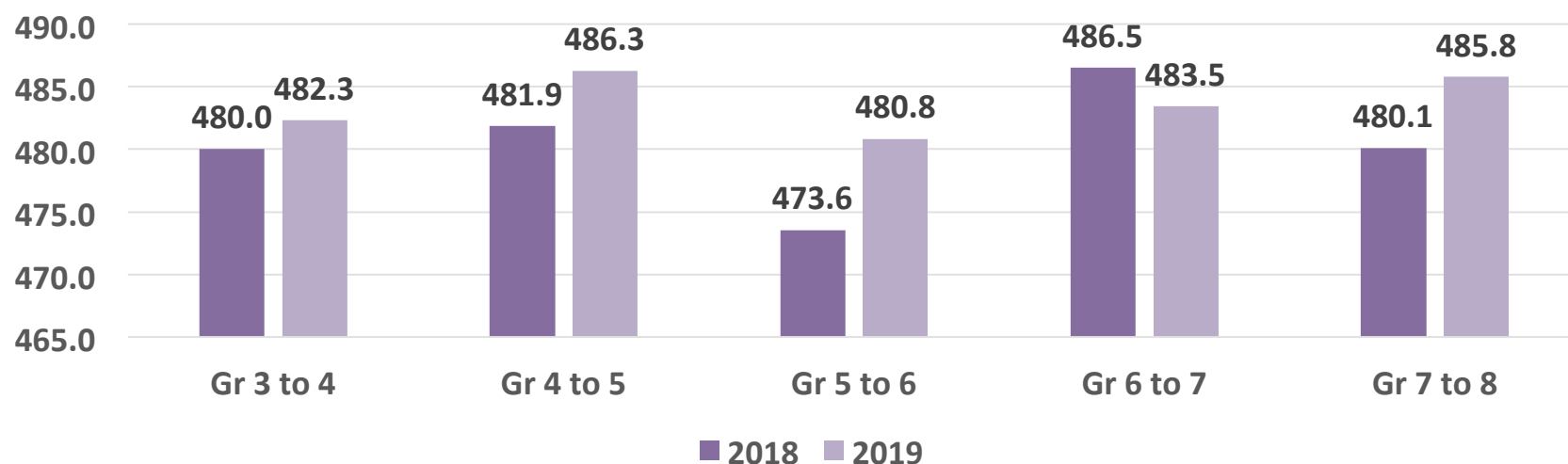
Math - % Meeting or Exceeding Expectations by Grade Level,  
2018 to 2019



More former NBS students in five out of six of the tested grade levels met or exceeded expectations in 2019 than there had been in 2018. Only grade 6 saw a decrease.

# Math Achievement by Cohort: Avg. Scaled Scores

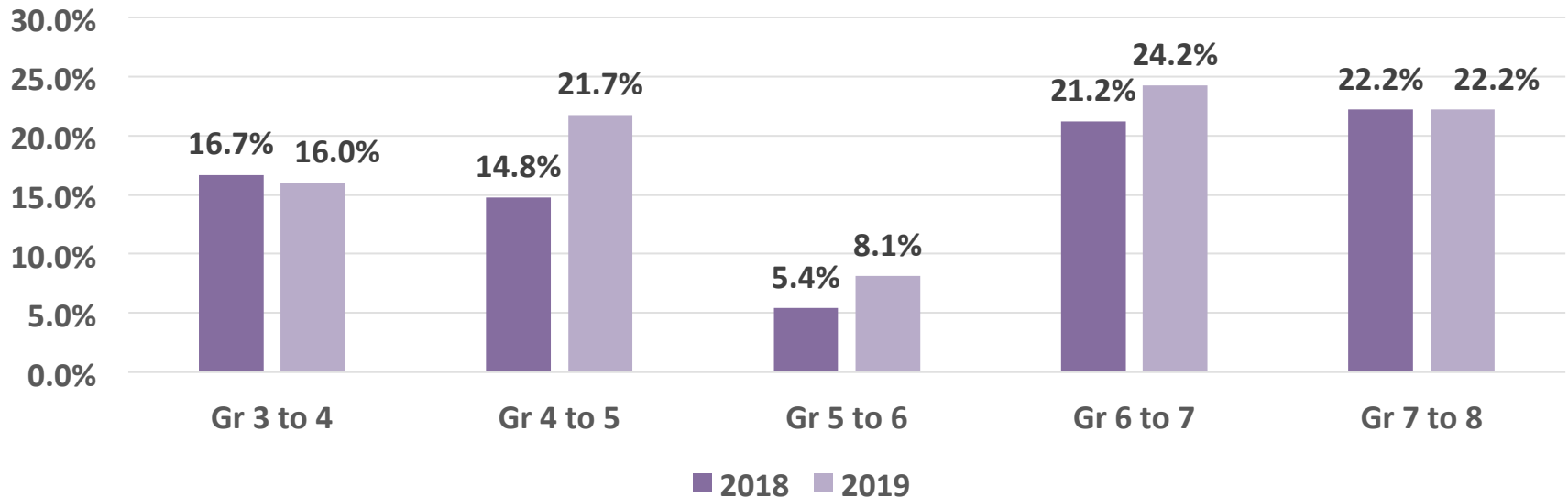
Math Gr Lvl Cohorts - Avg Scaled Scores, 2018 to 2019



More former NBS students increased their avg. scaled score in Math in 2019 in 4 out of 5 grade level cohorts as they moved up a grade. This means, for example, that the 2019 6<sup>th</sup> graders who were former NBS students scored higher in math than the same group of students had scored when they were in 5<sup>th</sup> grade during the previous year. Only the grade 6 to 7 cohort did not perform as well in 2019 as they had in 2018.

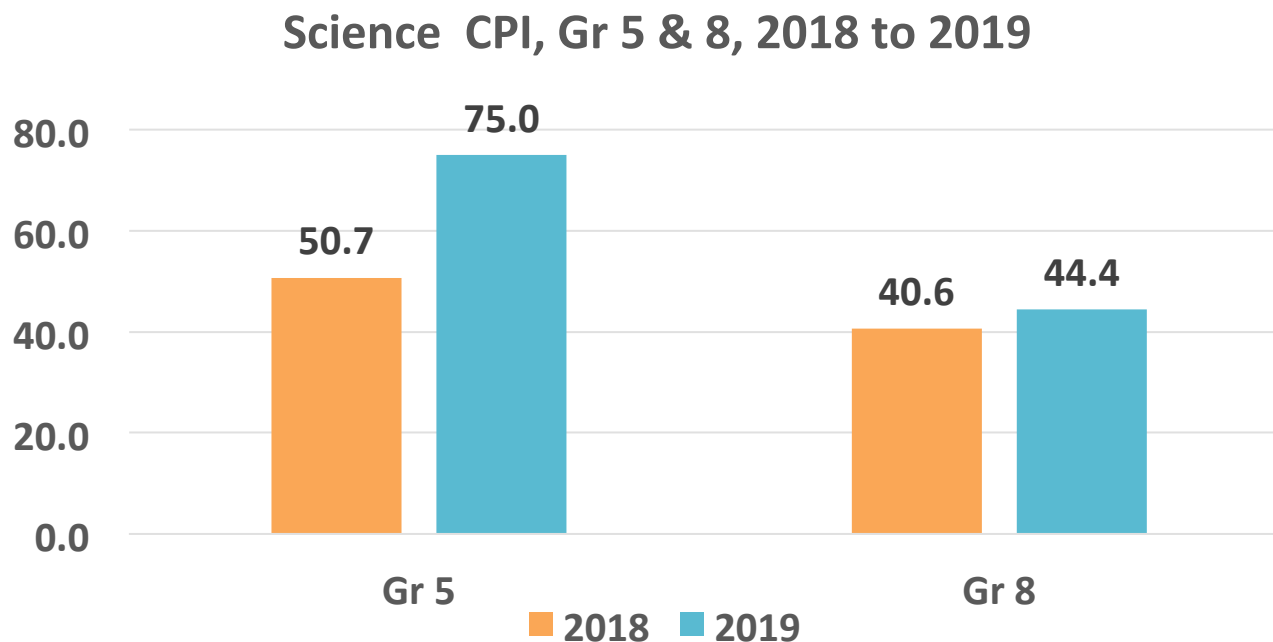
# Math Achievement by Cohort: Achievement Level

Math Gr Lvl Cohorts - % Meets or Exceeds, 2018 to 2019



The % of students who met or exceeded expectations in math increased in 2019 in 3 out of 4 of the cohorts. This means, for example, that more of the 2019 5<sup>th</sup> graders were meeting/exceeding in 2019 than when the same students were in 4<sup>th</sup> in 2018. The grades 3 to 4 and 7 to 8 cohorts saw level progress.

# Science Achievement by Grade Level

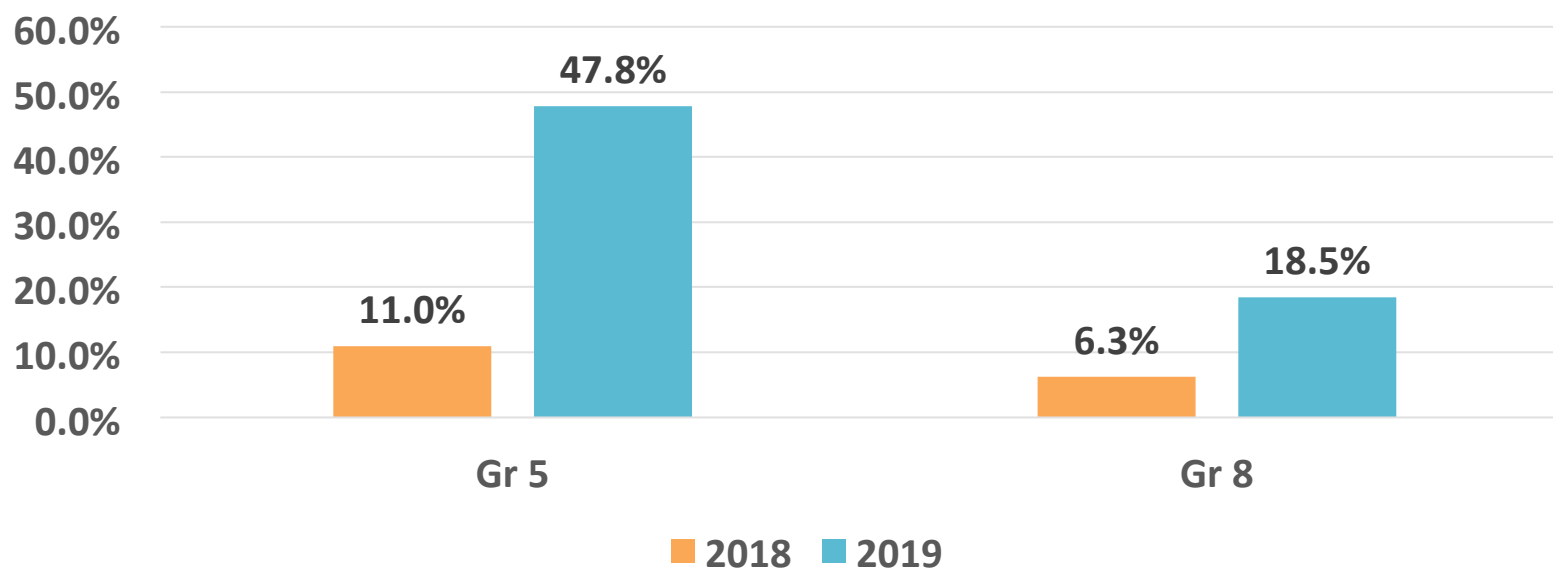


Science CPI scores increased in 2019 for both Grade 5 and 8 for the former NBS students, with a significant increase in Grade 5.

*Note: the 2019 Science Assessment is Next Generation*

# Science Achievement by Grade Level

Science - % Meeting or Exceeding Expectations  
Gr 5 & 8, 2018 to 2019



**More of former NBS students met or exceeded expectations in science in both grades 5 and 8 in 2019 than had been proficient or advanced in science in 2018.**

*(Note: In 2019, students took the Next Generation Science MCAS; in 2018 they took the legacy science MCAS.)*



# Early Literacy Learning

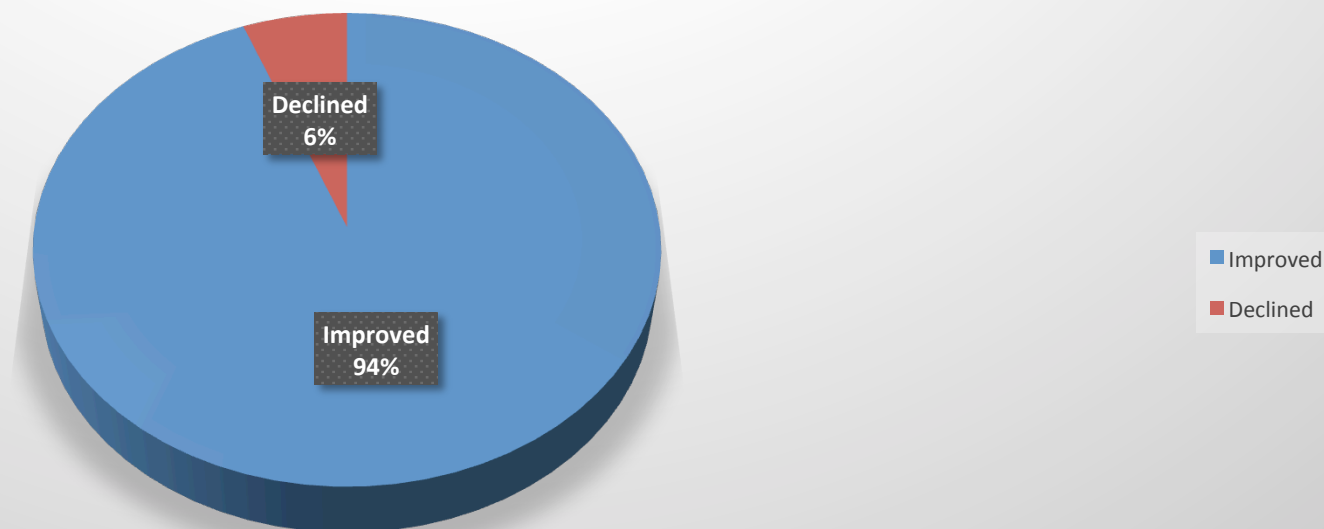
Early Reading Measures, Grades 1-2



# Progress in Literacy Gr. 1-2: Fall 2018 to Fall 2019

*Fountas and Pinnell Benchmark and Assessment System*

% of former NBS students whose reading levels improved since Fall 2018



**Average # of  
Text Levels  
Increased**

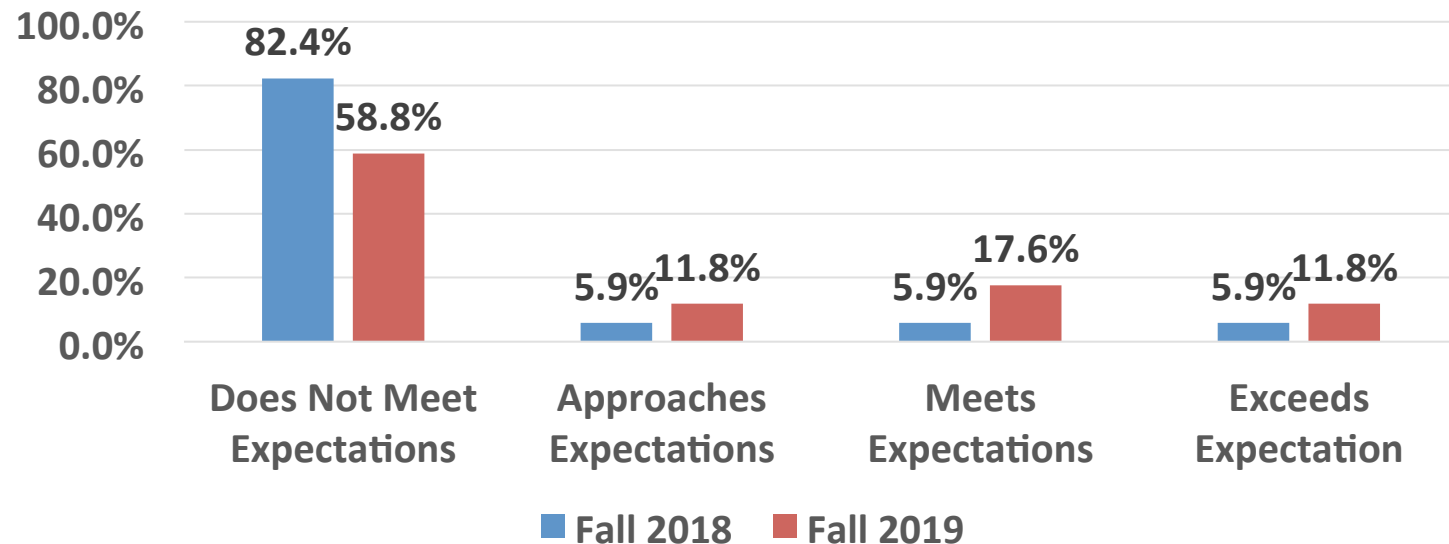
**4.2**

**Range of Text  
Levels  
Increased**

**1 to 11**

# Progress in Literacy Gr 1-2: Grade Level Benchmarks

Progress in Early Reading Level Expectations,  
Fall 2018 (Gr1) to Fall 2019 (Gr2)



In the fall of 2018, over 80% of Gr1 students that year did not meet grade level expectations. In the fall of 2019, that number was reduced by almost 24% and the % of students who were approaching, meeting, or exceeding expectations increased from 17% to 40% this fall.

*Fountas and Pinnell Benchmark and Assessment System*



# Student Engagement and School Climate

Attendance and Engagement Measures

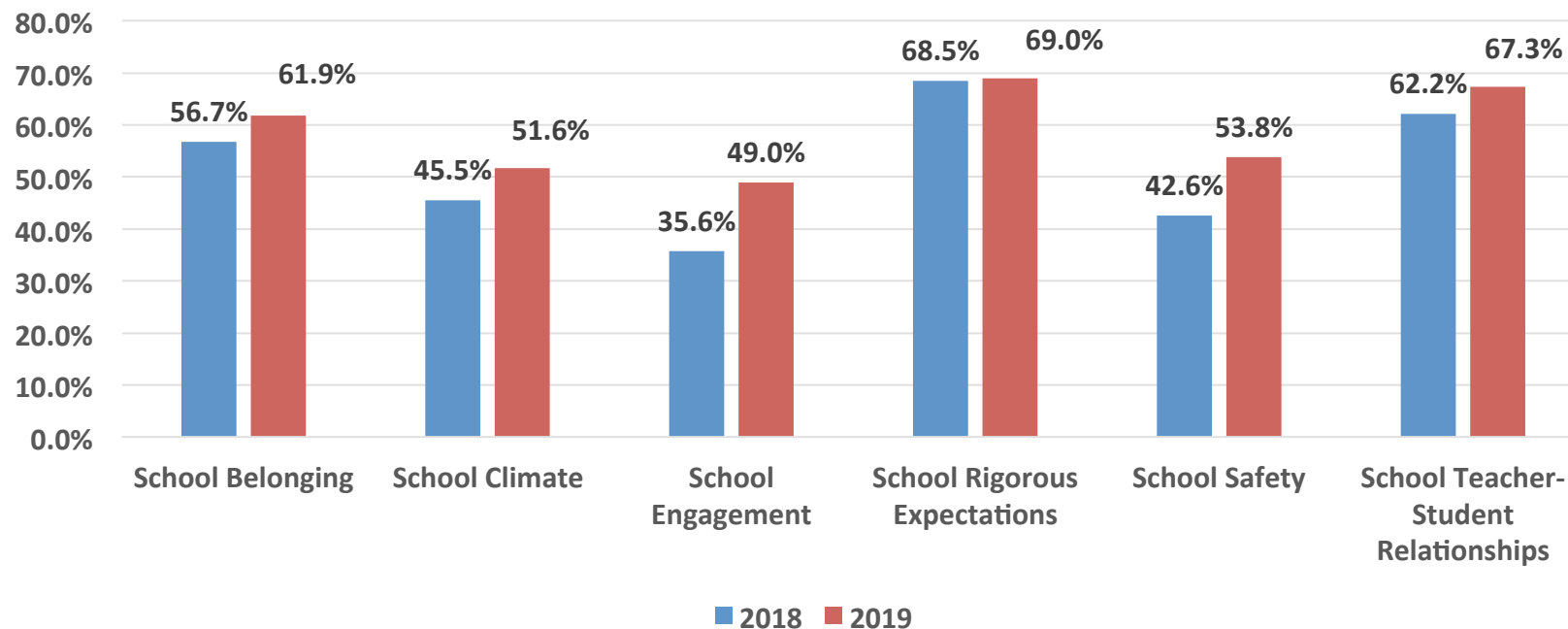
# Student Attendance

	Former NBS Students 2019-20 YTD	All Gr 2-7 Students YTD
Avg Attendance Rate	96.1%	96.2%
% Chronically Absent	9.4%	9.2%

The YTD attendance rates of former NBS students appear to be similar to those of all students in grades 2 to 7. The percentage of students who are chronically absent is also similar in both groups of students.

# School Climate Survey, Gr 3-5

School Climate Indicators for Gr 3-5 Former NBS Students, 2018 to 2019

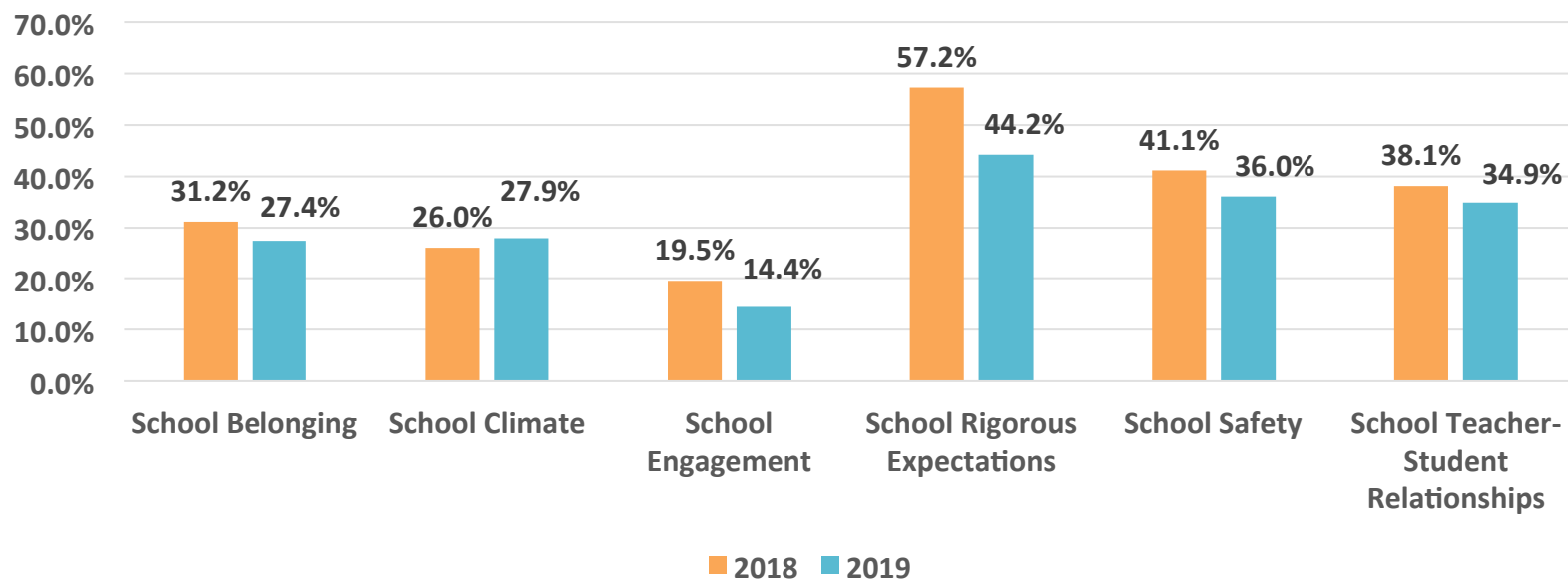


**In Spring 2019, the former NBS students in Gr 3-5 responded more favorably on all of the school climate indicators than they had in Spring 2018, with the largest increase in the area of student engagement.**

*Results are based on a comparison of (n=78) individual student responses in 2018 as compared with the same individual responses in 2019 on the Panorama School Climate Survey. These were students who were both enrolled and completed the Gr 3-5 school climate survey in both years.*

# School Climate Survey, Gr 6-8

School Climate Indicators for Gr 6-8 Former NBS Students, 2018 to 2019



The indicator for school climate increased slightly In Spring 2019 among the former NBS students in Gr 6-8. Responses for all other indicators, however, were less favorable than in 2018.

*Results are based on a comparison of (n=43) individual student responses in 2018 as compared with the same individual responses in 2019 on the Panorama School Climate Survey. These were students who were both enrolled and completed the Gr 6-8 school climate survey in both years.*

# Conclusions

## Bright Spots

- Former NBS students in Gr 1-5 are making good academic progress
- Gr 1-5 students increased positive responses on all school climate indicators
- Gr 8 students increased achievement in all content areas
- Gr 7 students show higher achievement in math

## Areas for Growth and Next Steps

- Closer look at Gr 6 and 7 in both academics and school climate indicators
- Review data with school leaders and develop action plans
- Continue supporting learning and positive school climate for all students

# Questions?

