

PARCC RESULTS: YEAR FOUR

MOUNTAINSIDE SCHOOL DISTRICT
TUESDAY, OCTOBER 23, 2018

Measuring
College and
Career Readiness

OVERVIEW PARCC 2018

Last year, Mountainside faculty focused efforts and energy into concerns identified in the 2017 PARCC scores. We committed to a four-pronged approach to attack areas in need of improvement:

- **Update curricular changes and add instructional time**
- **Embed professional development in school calendar**
- **Differentiate strategies in classroom and before/after school**
- **Utilize data gathered from targeted assessments - MAP, F&P**

The strategies were implemented with full staff/faculty buy-in and resulted in increased achievement for Mountainside students in both Mathematics and Language Arts.

We are pleased to present the results of the 2018 PARCC.

OVERVIEW MATH 2018 RESULTS

PARCC MATH: New Jersey & National Comparison

- The next three slides show the 2018 PARCC Mathematics results for the Mountainside School District compared to the New Jersey averages, and the averages of the states across the country that also took the PARCC.
- The first slide is grouped by grades 3-5, and the second slide is grouped by grades 6-8 general mathematics, and the third slide is grouped by high school Level courses.

2018 MOUNTAINSIDE, NEW JERSEY, & PARCC GRADE-LEVEL OUTCOMES: MATH GRADES 3-5

	Did Not Yet Meet Expectations (Level 1) 650-699	Partially Met Expectations (Level 2) 700-724	Approached Expectations (Level 3) 725-749	Met Expectations (Level 4) 750-789	Exceeded Expectations (Level 5) 790 & above	Met or Exceeded Expectations (Levels 4 & 5)
Grade 3 MSD	4.6%	1.5%	20.0%	52.3%	21.5%	73.8%
Grade 3 NJ	8.0%	15.3%	23.7%	37.8%	15.2%	53.0%
Grade 3 Nation	12.9%	19.6%	24.7%	32.0%	10.8%	42.8%
Grade 4 MSD	0%	3.4%	28.7%	51.7%	16.1%	67.8%
Grade 4 NJ	7.5%	16.8%	26.3%	41.8%	7.6%	49.4%
Grade 4 Nation	13.5%	22.4%	26.5%	32.8%	4.8%	37.7%
Grade 5 MSD	0%	8.6%	18.6%	57.1%	15.7%	72.9%
Grade 5 NJ	7.5%	17.0%	26.7%	38.5%	10.4%	48.8%
Grade 5 Nation	13.8%	21.9%	26.9%	30.8%	6.6%	37.3%

2018 MOUNTAINSIDE, NEW JERSEY, & PARCC GRADE-LEVEL OUTCOMES: MATH GRADES 6-8

	Did Not Yet Meet Expectations (Level 1) 650-699	Partially Met Expectations (Level 2) 700-724	Approached Expectations (Level 3) 725-749	Met Expectations (Level 4) 750-789	Exceeded Expectations (Level 5) 790 & above	Met or Exceeded Expectations (Levels 4 & 5)
Grade 6 MSD	2.1%	8.5%	17.0%	55.3%	17.0%	72.3%
Grade 6 NJ	8.5%	20.1%	27.9%	35.6%	8.0%	43.5%
Grade 6 Nation	13.9%	26.0%	28.0%	27.3%	4.9%	32.1%
*Grade 7 MSD Gen. Math Only	0%	5.1%	33.9%	61.0%	0%	61.0%
Grade 7 NJ	7.7%	20.3%	28.6%	36.0%	7.4%	43.4%
Grade 7 Nation	11.0%	26%	30.1%	28.5%	4.4%	32.9%
*Grade 8 MSD Gen. Math Only	0%	10.5%	43.9%	45.6%	0%	45.6%
Grade 8 NJ	22.0%	22.7%	27.1%	27.2%	1.0%	28.2%
Grade 8 Nation	26.6%	24.1%	23.5%	23.1%	2.7%	25.8%

2018 MOUNTAINSIDE, NEW JERSEY, & PARCC GRADE-LEVEL OUTCOMES: ALGEBRA/GEOMETRY

	Did Not Yet Meet Expectations (Level 1) 650-699	Partially Met Expectations (Level 2) 700-724	Approached Expectations (Level 3) 725-749	Met Expectations (Level 4) 750-789	Exceeded Expectations (Level 5) 790 & above	Met or Exceeded Expectations (Levels 4 & 5)
Algebra I MSD (7 & 8)	0%	0%	2.9%	91.2%	5.9%	97.1%
Algebra I NJ	11.3%	18.6%	24.3%	39.3%	6.5%	45.8%
Algebra I Nation	13.7%	22.2%	25.0%	34.2%	4.8%	39.1%
Geometry MSD	0%	0%	0%	62.5%	37.5%	100%
Geometry NJ	9.4%	31.5%	29.6%	24.6%	4.9%	29.5%
Geometry Nation	9.6%	32.6%	29.3%	23.8%	4.7%	28.4%

OVERVIEW MATH 2018 RESULTS

MOUNTAINSIDE SCHOOL DISTRICT

Same Grade Level/Different Students (Program)

- The next two slides compare the percentage of students who achieved a Level 4 (Met Expectations) or Level 5 (Exceeded Expectations) on MATH PARCC over the past four years for each grade level, including Algebra and Geometry courses, in Mathematics.
- This information gives feedback on curricular programming.

PARCC MATH Scores Grades 3-8

District % of Students who Scored a Level 4 or 5 Same Grade/Different Students

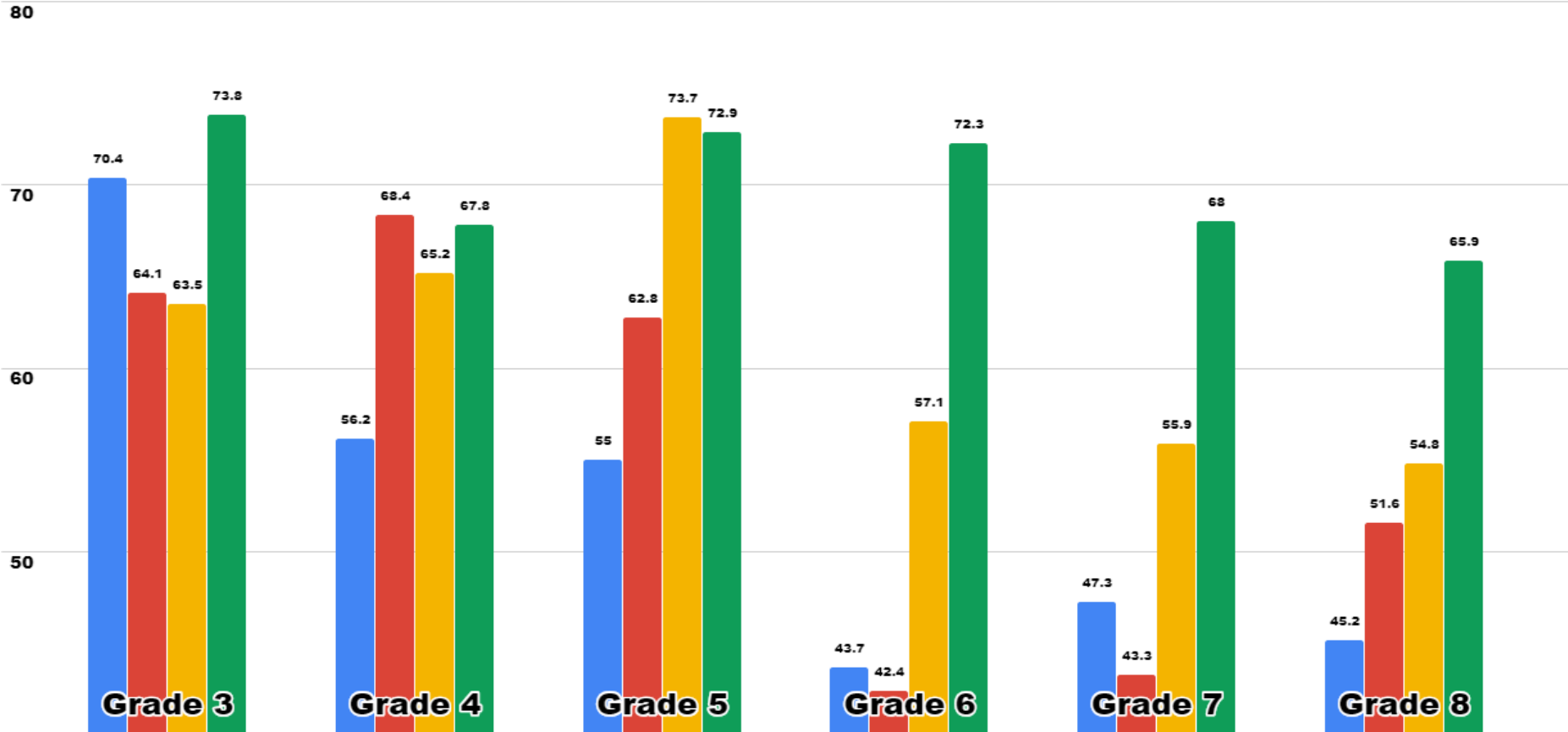
	2015	2016	2017	2018
MATH 3	70.4% (69 students)	64.1% (43 students)	63.5% (54 students)	73.8% (48 students)
MATH 4	56.2% (41 students)	68.4% (67 students)	65.2% (43 students)	67.8% (59 students)
MATH 5	55% (49 students)	62.8% (44 students)	73.7% (70 students)	72.9% (51 students)
MATH 6	43.7% (28 students)	42.4% (39 students)	57.1% (40 students)	72.3% (68 students)
MATH 7 With HS Math	47.3% (44 students)	43.3% (25 students)	55.9% (52 students)	68% (45 students)
MATH 8 With HS Math	45.2% (30 students)	51.6% (48 students)	54.8% (34 students)	65.9% (60 students)

PARCC MATH Scores: Grades 3-8

Same Grade/Different Students Met or Exceeded Expectations

District % of Students who Scored a Level 4 or 5

■ 2015 ■ 2016 ■ 2017 ■ 2018



MATH COHORT OVERVIEW

- **Since overall growth can be seen more easily in whole grade averages, many districts choose to report all math students in grades 7 and 8 (general math, Algebra and Geometry) as one cohort.**
- **Over the last few years, we have reported out each math course assessment in order to provide increased information about our struggling math students**
- **In the next slide (without Algebra and Geometry) you will notice that there are significantly fewer 7th and fewer yet enrolled in 8th grade math. This is because in these cohorts many of our 7th and 8th math students were advanced into Algebra and Geometry**
- **Note: Algebra and Geometry results will be analyzed in the slide that follows the next one**

PARCC MATH Scores Grades 3-8

District % of Students who Scored a Level 4 or 5 Same Students/Consecutive Grades

	2015	2016	2017	2018
MATH 3	70.4% (69 students)	64.1% (43 students)	63.5% (54 students)	73.8% (48 students)
MATH 4	56.2% (41 students)	68.4% (67 students)	65.2% (43 students)	67.8% (59 students)
MATH 5	55% (49 students)	62.8% (44 students)	73.7% (70 students)	72.9% (51 students)
MATH 6	43.7% (28 students)	42.4% (39 students)	57.1% (40 students)	72.3% (68 students)
*MATH 7 No HS Math	36.2% (25 students)	34% (17 students)	50.6% (41 students)	61% (36 students)
*MATH 8 No HS Math	25% (10 students)	13.0% (6 students)	23.5% (8 students)	45.6% (26 students)

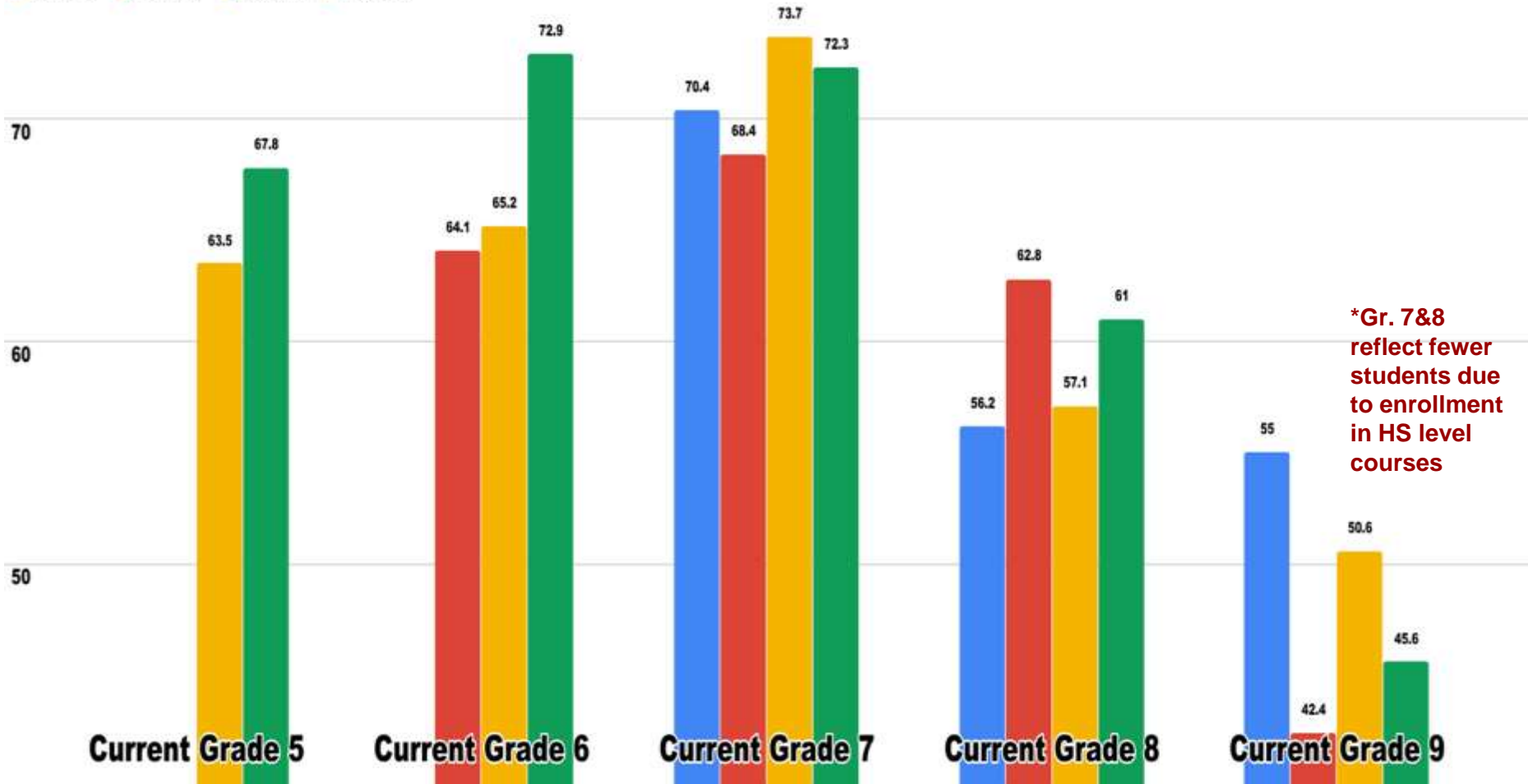
PARCC MATH Scores: Current 5th - 9th Grades

Same Students/Consecutive Grades

Met or Exceeded Expectations

% of Students in Cohort who Scored a Level 4 or 5

■ 2015 ■ 2016 ■ 2017 ■ 2018



PARCC MATH Scores: Algebra and Geometry

District % of Students who Scored a Level 4 or 5

	2015	2016	2017	2018
Algebra I (7 & 8)	56.8% (51 students)	88.3% (30 students)	90.3% (28 students)	97.1% (33 students)
Geometry <small>*Algebra II - 1 student</small>	89.5% (19 students)	87.5% (21 students)	100% (9 students)	100% (8 students)

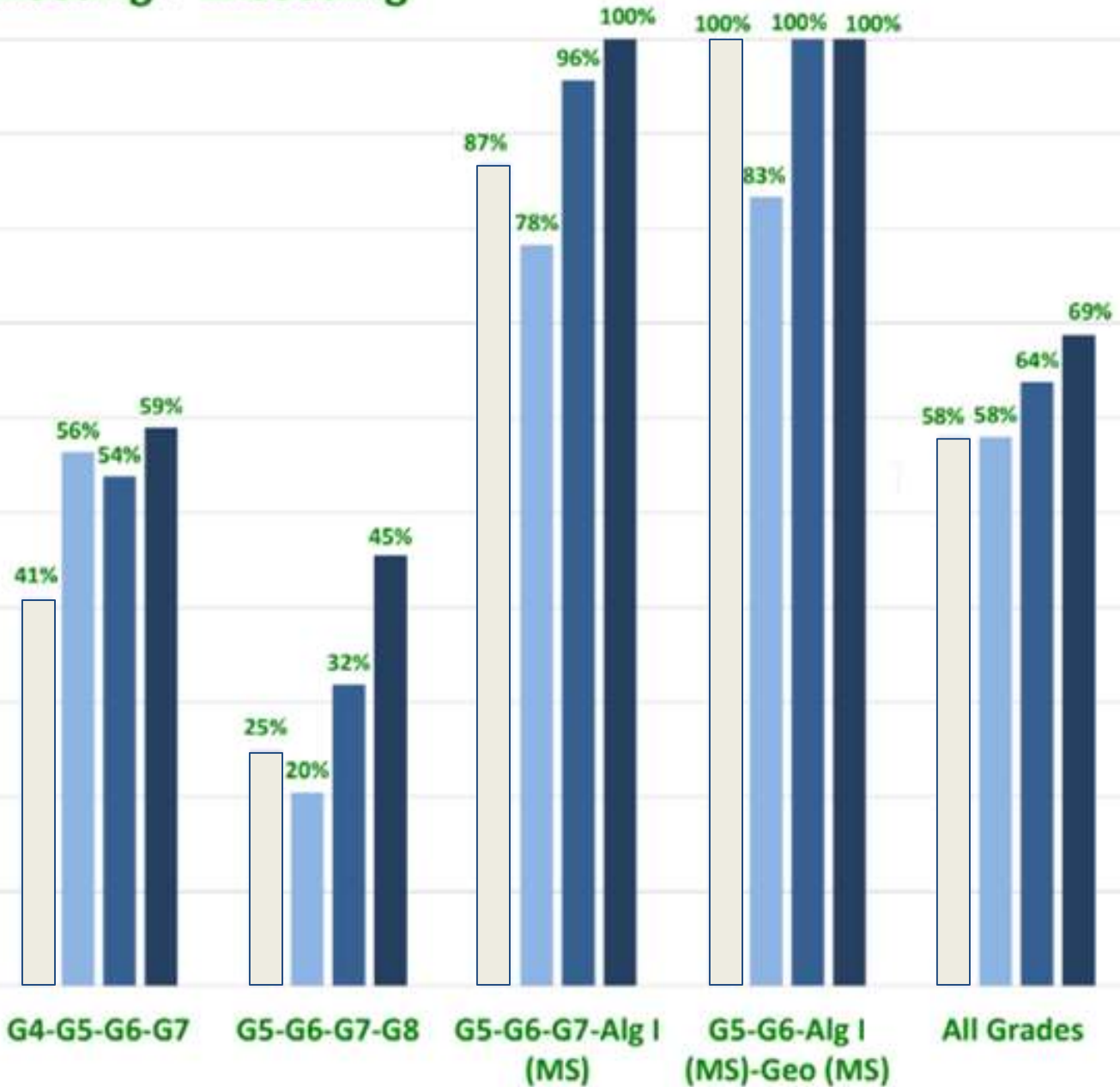
LinkIt! Cohort Analysis

An additional lens to evaluate student growth is through LinkIt! It is an online program utilized for data analysis.

LinkIt! follows each student through his/her course track for four years and provides us with “mini-cohorts”.

The following slide shows PARCC math achievement of students by their *course enrollment* through the last four years.

Meeting + Exceeding



A CLOSER
LOOK AT
MEETING &
EXCEEDING
2014-2018

Following
Middle
School
Cohort
Progress
by
Course

LinkIt!

MATH COHORT OVERVIEW

MOUNTAINSIDE SCHOOL DISTRICT

Same Students/Consecutive Grades (Cohorts)

- **The next two slides compare the percentage of students in each cohort who achieved a Level 1 (Did Not Yet Meet Expectations) or a Level 2 (Partially Met Expectations) on MATH PARCC over the past four years.**
- **We want these %s to go down.**

PARCC MATH Scores: Grades 3-8

District % of Students who Scored a Level 1 or 2 Same Students/Consecutive Grades

	2015	2016	2017	2018
MATH 3	12.2% (12 students)	10.5% (7 students)	10.6% (9 students)	6.1% (4 students)
MATH 4	6.8% (5 students)	8.1% (8 students)	9.1% (6 students)	3.4% (3 students)
MATH 5	6.7% (6 students)	7.1% (5 students)	12.6% (12 students)	8.6% (6 students)
MATH 6	21.9% (14 students)	20.7% (19 students)	14.3% (10 students)	10.6% (10 students)
MATH 7	21.7% (15 students)	30% (15 students)	14.8% (12 students)	5.1% (3 students)
MATH 8	40% (16 students)	53.3% (24 students)	35.3% (12 students)	10.5% (6 students)

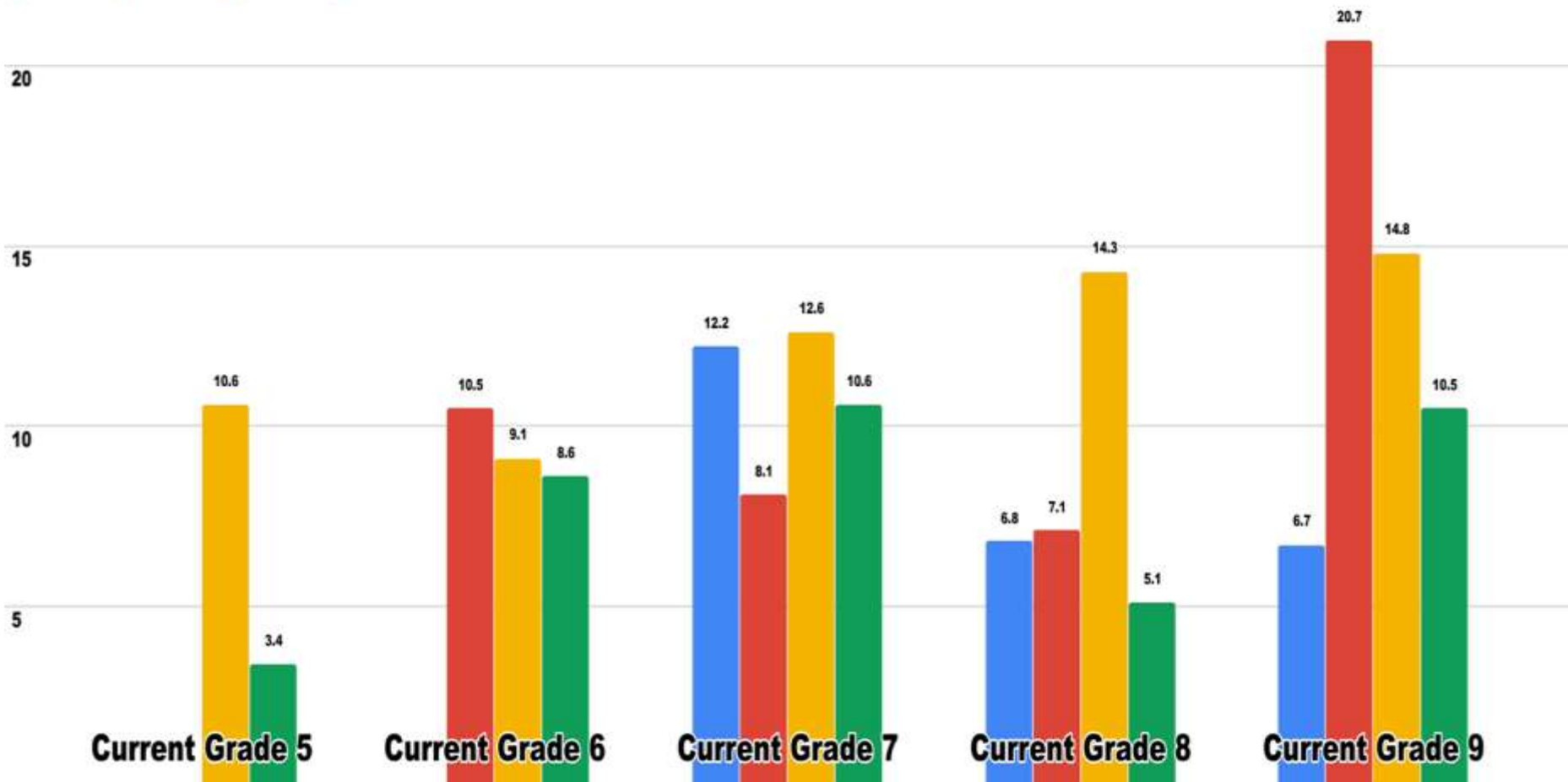
PARCC MATH Scores: Current 5th - 9th Grades

Same Students/Different Grades

District % of Students who Scored a Level 1 or 2

% of Students in Cohort who Scored a Level 1 or 2

■ 2015 ■ 2016 ■ 2017 ■ 2018



MATH PROGRAM ANALYSIS

All Three Special Focus Targets Were Hit

- **7th & 8th grade Future Mathematicians (F.M.) Club**
 - Held before school twice a week
 - Drew double the number of consistent participants

- **Scope and Sequence**
 - Grade 3 curriculum focus

- **Grade 5th to 6th Grade Concerns**
 - Realigned the scope/sequence of the curriculum
 - Focused on mathematical modeling of representations

MATH COHORT ANALYSIS

Cohort Growth

- **Improvement in passing rate (Levels 4 and 5) from grades 3 to 4, 4 to 5, 6 to 7, and 7 to 8**
- **Every grade level cohort decreased the percentage of students scoring in Levels 1 and 2**

MATH COHORT ANALYSIS

- **We still see a decrease from grades 5 to 6, however the gap has closed in the last year (from 6% to 1.5%). Although the drop was less, this data shows that additional changes must be made here.**
- **Grades 7 to 8 general math course shows historical decrease in percentage of students scoring Levels 4 or 5 and is reflective of more students participating in higher level math courses instead of general math.**

MATH ANALYSIS

Future Direction Grades 6-8

- **2018-19 Math Enrichment Course Grades 7 and 8 taught by Math Specialist, Mrs. Natalie Crisafulli**
 - **Targets math topics and skills identified as needing additional support**

- **Research Scheduling Models for Grade 6 to Reach Goal of Increasing Instructional Time**
 - **Currently in Grade 6, Social Studies, World Language, and PE instructional time increases to 45 minutes/5 days per week and Mathematics instruction decreases to 45 min/day**
 - **Staffing changes must be made in order to accommodate a different alignment of instructional time**

MATH ANALYSIS

Future Direction Grades K-5

- **K-2 and 3-5 Math Workshops with New Math Specialist, Mrs. Natalie Crisafulli will:**
 - Provide PD K-2 “Best Practices” in Math
 - Oversee K-2 Math scope and sequence
 - Meet with 3-5 grade levels
 - Begin review math curriculum/text

- **Grades: K-2 - Adjust the sequence of *GO Math!* chapters to align to content standards of *NJ Curriculum Framework***
 - Prioritize and identify the major clusters that need to be addressed prior to entering 3rd grade
 - Utilize Chromebooks in all subject areas to prepare students for taking online assessments

OVERVIEW ELA 2018 RESULTS

PARCC ELA: New Jersey & National Comparison

- **The next two slides show the 2018 PARCC ELA results for the Mountainside School District compared to the New Jersey averages, and the averages of the states across the country that also took the PARCC.**
- **The first slide is grouped by grades 3-5, and the second slide is grouped by grades 6-8.**

2018 MOUNTAINSIDE, NEW JERSEY, & NATION GRADE-LEVEL OUTCOMES ~ ELA GRADES 3-5

	Did Not Yet Meet Expectations (Level 1) 650-699	Partially Met Expectations (Level 2) 700-724	Approached Expectations (Level 3) 725-749	Met Expectations (Level 4) 750-789	Exceeded Expectations (Level 5) 790 & above	Met or Exceeded Expectations (Levels 4 & 5)
Grade 3 MSD	6.3%	9.4%	20.3%	51.6%	12.5%	64.1%
Grade 3 NJ	13.5%	13.5%	21.4%	43.5%	8.1%	51.7%
Grade 3 Nation	19.9%	16.6%	22.7%	36.0%	4.8%	40.8%
Grade 4 MSD	0%	3.4%	25.3%	44.8%	26.4%	71.3%
Grade 4 NJ	7.6%	12.3%	22.1%	39.1%	18.9%	58.0%
Grade 4 Nation	12.8%	17.9%	25.1%	32.9%	11.3%	44.2%
Grade 5 MSD	2.9%	8.7%	20.3%	58.0%	10.1%	68.1%
Grade 5 NJ	6.9%	12.6%	22.4%	47.2%	10.8%	58%
Grade 5 Nation	12.1%	18.9%	26.2%	37.6%	5.3%	42.9%

2018 MOUNTAINSIDE, NEW JERSEY & NATION GRADE-LEVEL OUTCOMES ~ ELA GRADES 6-8

	Did Not Yet Meet Expectations (Level 1) 650-699	Partially Met Expectations (Level 2) 700-724	Approached Expectations (Level 3) 725-749	Met Expectations (Level 4) 750-789	Exceeded Expectations (Level 5) 790 & above	Met or Exceeded Expectations (Levels 4 & 5)
Grade 6 MSD	1.1%	4.3%	11.7%	54.3%	28.7%	83%
Grade 6 NJ	6.2%	13.6%	24.6%	41.3%	14.9%	56.2%
Grade 6 Nation	10.7%	20.4%	28.0%	33.1%	7.9%	40.9%
Grade 7 MSD	1.5%	1.5%	11.8%	41.2%	44.1%	85.3%
Grade 7 NJ	8.6%	10.2%	18.5%	34.1%	28.6%	62.7%
Grade 7 Nation	14.4%	15.7%	23.1%	30.5%	16.4%	46.9%
Grade 8 MSD	0%	2.2%	16.1%	57.0%	24.7%	81.7%
Grade 8 NJ	8.7%	11.1%	19.8%	39.9%	20.4%	60.4%
Grade 8 Nation	15.6%	16.9%	23.6%	33.1%	10.8%	43.9%

OVERVIEW ELA 2018 RESULTS

MOUNTAINSIDE SCHOOL DISTRICT

Same Grade Level/Different Students (Program)

- **The next two slides compare the percentage of students who achieved a Level 4 (Met Expectations) or Level 5 (Exceeded Expectations) on ELA PARCC over the past four years.**
- **This information gives feedback on curricular programming.**

PARCC ELA Scores: Grades 3-8

District % of Students who Scored a Level 4 or 5 Same Grade/Different Students

	2015	2016	2017	2018
ELA 3	58.5% (55 students)	45.6% (31 students)	52.9% (45 students)	64.1% (41 students)
ELA 4	67.1% (49 students)	61.2% (60 students)	68.2% (45 students)	71.3% (62 students)
ELA 5	67.8 % (61 students)	68.6% (48 students)	70.5% (67 students)	68.1% (47 students)
ELA 6	57.2% (36 students)	64.5% (60 students)	69% (49 students)	83.0% (78 students)
ELA 7	70.9% (66 students)	71.1% (42 students)	79.3% (73 students)	85.3% (58 students)
ELA 8	56.5% (48 students)	62.8% (59 students)	74.2% (46 students)	81.7% (76 students)

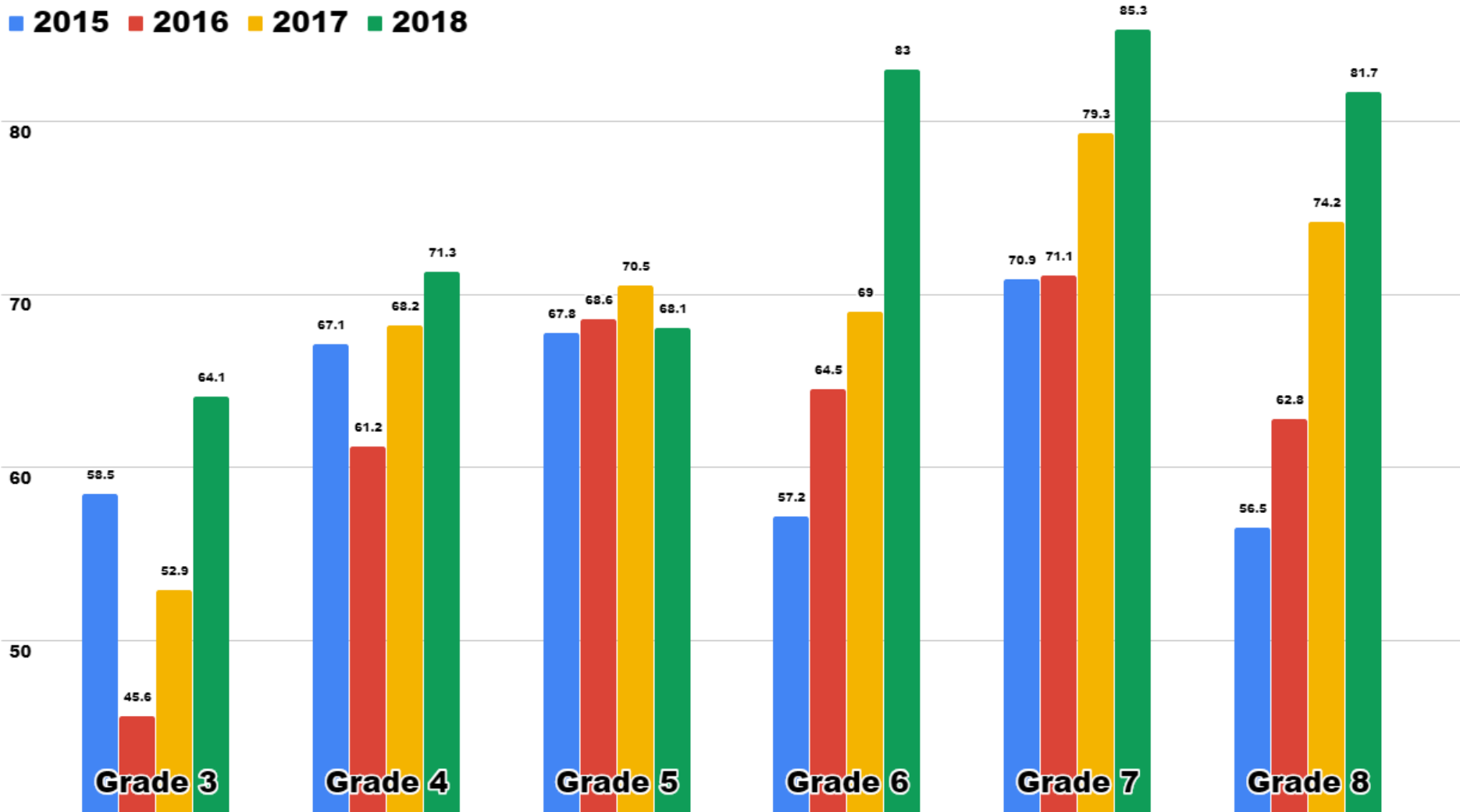
PARCC ELA Scores: Grades 3-8

Same Grade/Different Students

Met or Exceeded Expectations

District % of Students who Scored a Level 4 or 5

■ 2015 ■ 2016 ■ 2017 ■ 2018



ELA COHORT OVERVIEW

MOUNTAINSIDE SCHOOL DISTRICT

Same Students/Consecutive Grades (Cohorts)

- **The next two slides compare the percentage of students in each grade level cohort who achieved a Level 4 (Met Expectations) or Level 5 (Exceeded Expectations) on ELA PARCC over the past four years.**

PARCC ELA Scores: Grades 3-8

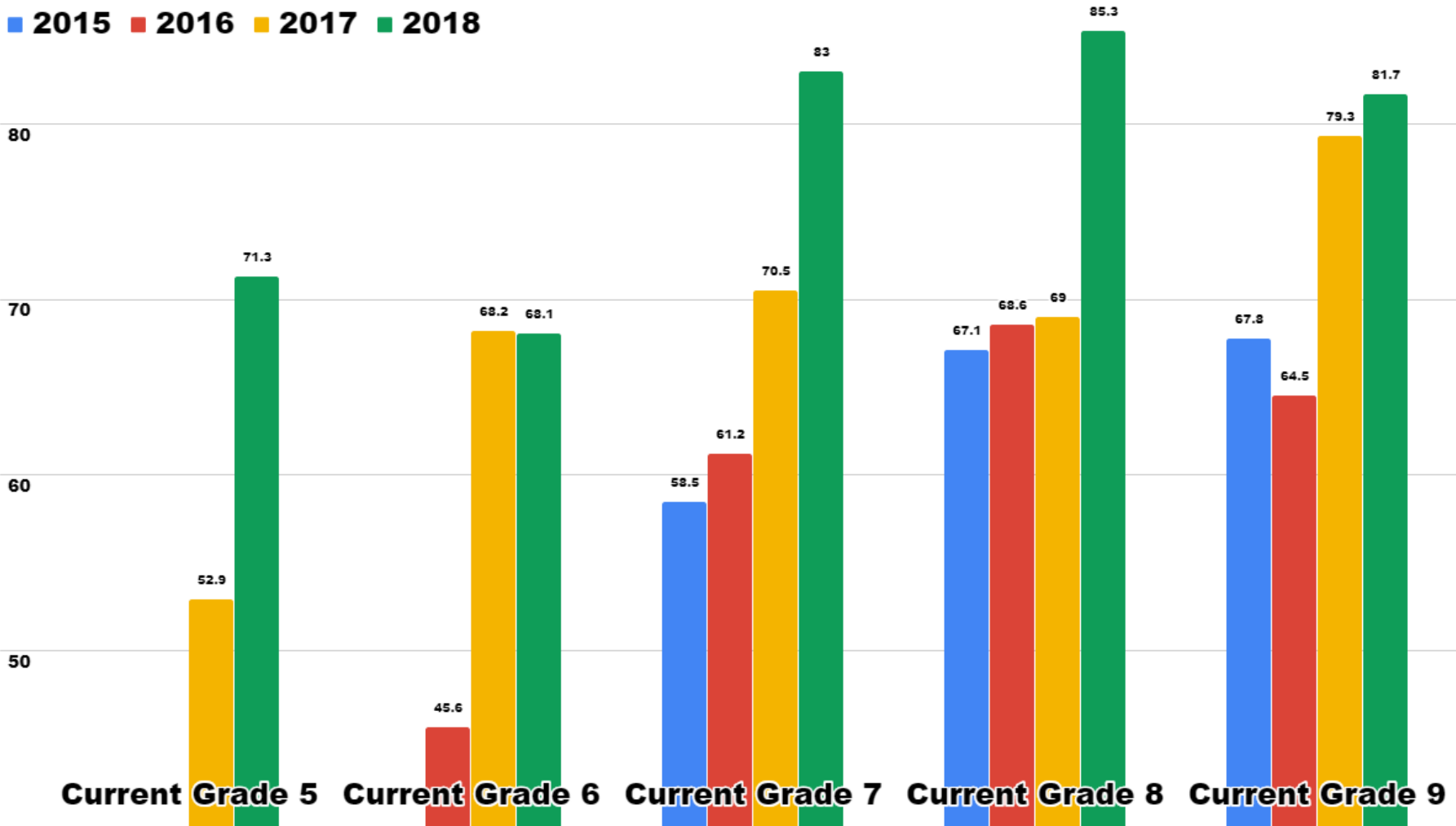
District % of Students who Scored a Level 4 or 5 Same Students/Consecutive Grades

	2015	2016	2017	2018
ELA 3	58.5% (55 students)	45.6% (31 students)	52.9% (45 students)	64.1% (41 students)
ELA 4	67.1% (49 students)	61.2% (60 students)	68.2% (45 students)	71.3% (62 students)
ELA 5	67.8 % (61 students)	68.6% (48 students)	70.5% (67 students)	68.1% (47 students)
ELA 6	57.2% (36 students)	64.5% (60 students)	69% (49 students)	83.0% (78 students)
ELA 7	70.9% (66 students)	71.1% (42 students)	79.3% (73 students)	85.3% (58 students)
ELA 8	56.5% (48 students)	62.8% (59 students)	74.2% (46 students)	81.7% (76 students)

PARCC ELA Scores: Current 5th-9th Grades Same Students/Consecutive Grades Met or Exceeded Expectations

% of Students in Cohort who Scored a Level 4 or 5

■ 2015 ■ 2016 ■ 2017 ■ 2018



ELA COHORT OVERVIEW

MOUNTAINSIDE SCHOOL DISTRICT

Same Students/Consecutive Grades (Cohorts)

- The next two slides compare the percentage of students in each cohort who achieved a Level 1 (Did Not Yet Meet Expectations) or a Level 2 (Partially Met Expectations) on ELA PARCC over the past four years.
- We want these %s to go down.

PARCC ELA Scores: Grades 3-8

District % of Students who Scored a Level 1 or 2 Same Students/Consecutive Grades

	2015	2016	2017	2018
ELA 3	23.4 % (22 students)	26.5% (18 students)	17.7% (15 students)	15.7% (10 students)
ELA 4	9.6% (7 students)	9.1% (9 students)	7.5% (5 students)	3.4% (3 students)
ELA 5	6.7% (6 students)	7.1% (5 students)	9.5% (9 students)	11.6% (8 students)
ELA 6	9.5% (6 students)	8.6% (8 students)	5.6% (4 students)	5.4% (5 students)
ELA 7	9.7% (9 students)	10.2% (6 students)	3.3% (3 students)	3.0% (2 students)
ELA 8	10.6% (9 students)	15.9% (15 students)	4.8% (3 students)	2.2% (2 students)

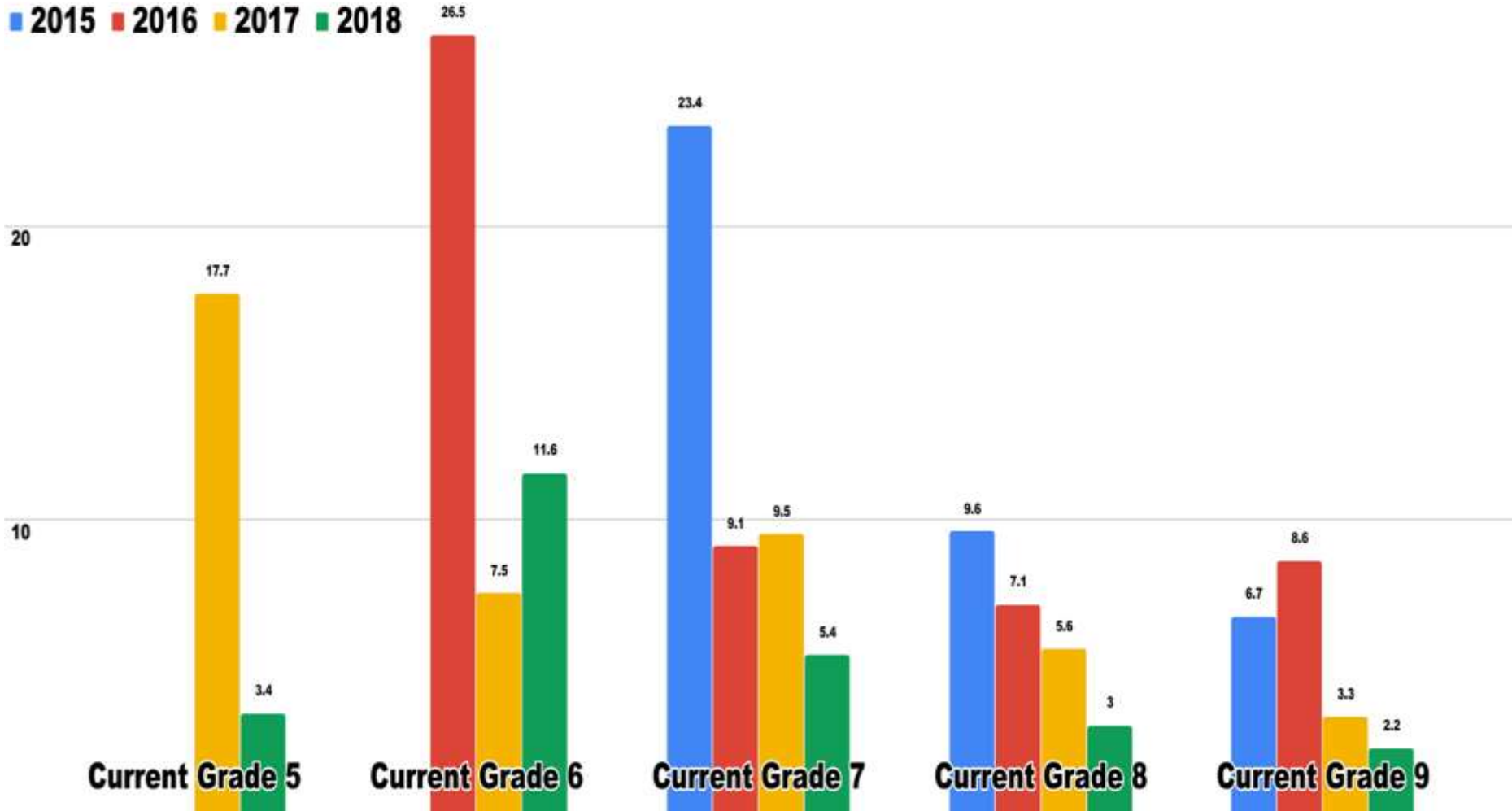
PARCC ELA Scores: Current 5th - 9th Grades

Same Students/Different Grades

District % of Students who Scored a Level 1 or 2

% of Students in Cohort who Scored a Level 1 or 2

■ 2015 ■ 2016 ■ 2017 ■ 2018



ANALYSIS OF LAL PROGRAM

- **Now in our 4th year as a TCRW Project School, we continue to see tremendous growth across all grade levels in reading and writing skills.**
 - **Whole school passing average increased by 11%.**
 - **Every cohort increased the number of students scoring on Level 4 and 5. Some grew by 2 students and other cohorts as many as 17 students.**

ANALYSIS OF LAL PROGRAM

➤ General LAL Future Direction

- Continued success with Teachers College Readers and Writers Program confirms program direction
- K-2 continues to support PARCC instruction (Kindergarten is piloting the TC phonics program.)
- Differentiated support for both struggling and advanced students
- Infuse *language usage, grammar conventions, and spelling* at all levels
- Infuse more analytical writing across the curriculum at all grade levels

QUESTIONS

