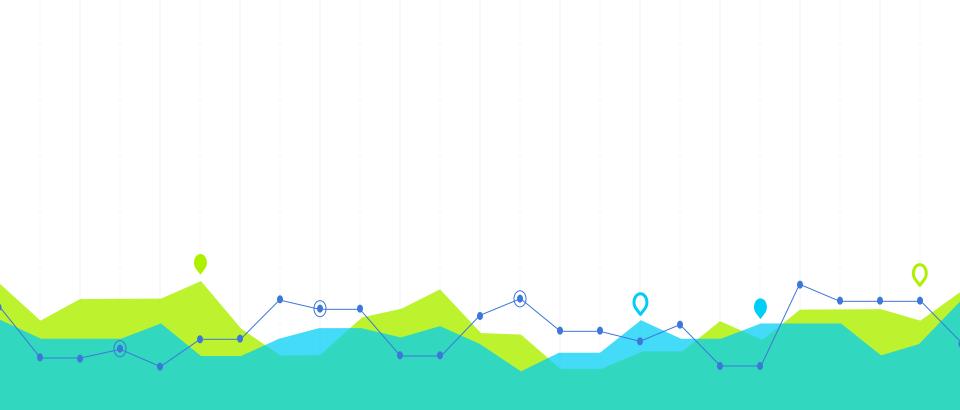


# PARCC 2017-2018 Results

Delran Township School District Presentation to the Board of Education 9/4/18



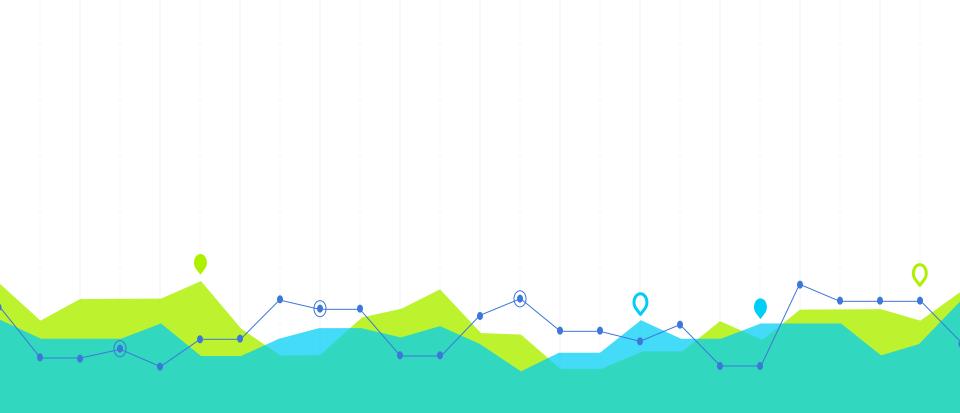
## 2017 PARCC Mathematics Fall Block Results

Mary Jo Hutchinson, K-12 Supervisor of Mathematics, Business, Robotics & Co-Coordinator of STEM Programming

#### **ALGEBRA I: TAKE TWO**

- 9th grade students who had achieved level 3 in 8th grade, or refused to test, were invited: 8 invited (6 participated)
- Learning Module Created "Algebra Applications & Techniques"
  - blend of online and in-person sessions
  - tailored to students' areas of weakness based on previous PARCC results
  - eligible to retake the Algebra I PARCC in the Fall Block administration window.
- 6 students successfully completed the Algebra Applications & Techniques Learning Module
- 5 of the 6 achieved a passing score of Level 4 after re-taking the Algebra I PARCC.





## **2018 PARCC Mathematics Results**

Mary Jo Hutchinson, K-12 Supervisor of Mathematics, Business, Robotics & Co-Coordinator of STEM Programming

### THE STORY IN THE NUMBERS: DELRAN INTERMEDIATE SCHOOL

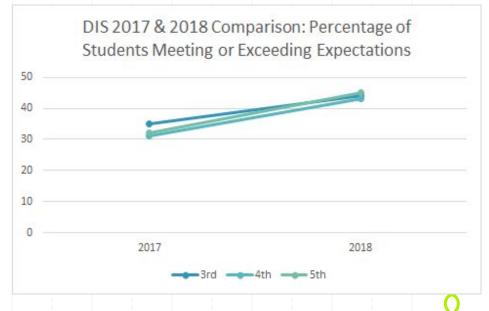
 Increase in students meeting or exceeding grade level expectations ("passing")

 Increased instructional rigor and a strong focus on the standards provided by our new math materials is realizing results, as evidenced by "passing" percentages increasing by 9-13 percentage points over 2017 results in grades 3-5 (see graph below)

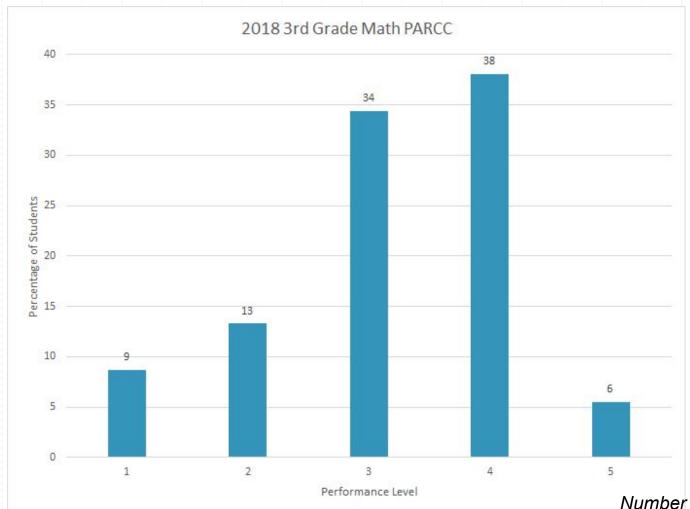
Decrease in students at Level 1 "Did Not Yet Meet Expectations," and Level 2

"Partially Met Expectations"

A large percentage of students achieving a Level 3 "Approached Expectations" at each grade level, in comparison to NJ and multi-state averages. There is a need to explore why a large number of our students are coming close to, but not quite, meeting expectations and achieving what is considered a "passing" score.

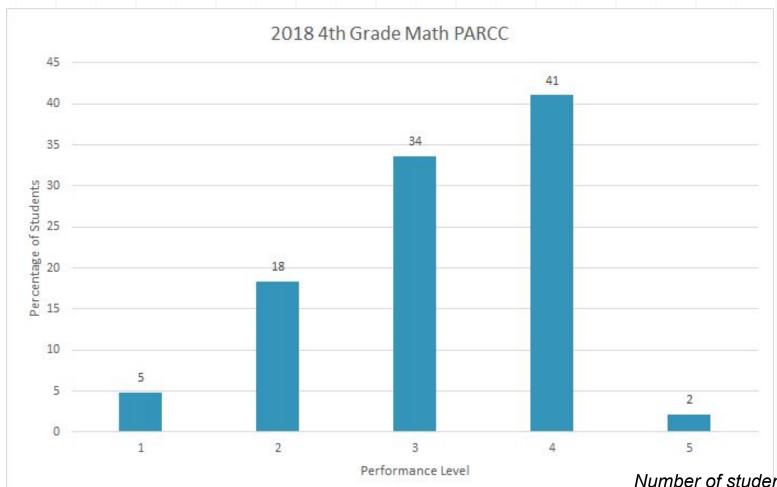


### **Grade 3 Mathematics**



Number of students tested: 218
Refusals: 5

### **Grade 4 Mathematics**

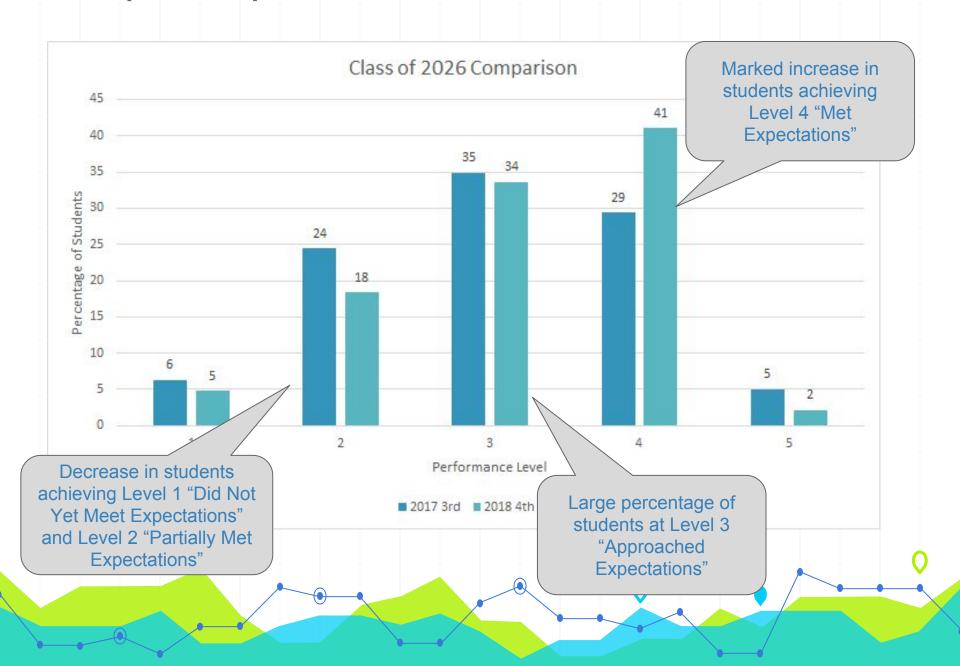


Number of students tested: 229

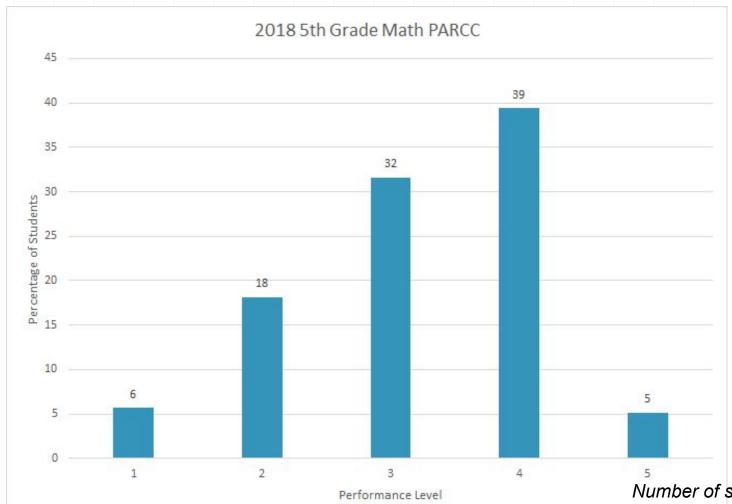
Refusals: 15



## Group Comparison for the Class of 2026



### **Grade 5 Mathematics**



Number of students tested: 193

Refusals: 19

Group Comparison for the Class of 2025



### **DISAGGREGATED SUBGROUPS: DELRAN INTERMEDIATE SCHOOL**

**Gender:** Comparable

**Ethnicity:** Somewhat comparable, with Black and Hispanic/Latino students achieving an average scale score 8-27 points lower than White students

**Economically Disadvantaged:** Average scale score 12-29 points lower, passing rates 14-22% lower than non-economically disadvantaged peers

**Students with Disabilities:** Average scale score 20-25 points lower than non-disabled peers

**English Language Learners:** Average scale score 4-31 points lower than native English speakers



### **NEXT STEPS FOR MATH: DELRAN INTERMEDIATE SCHOOL**

- Work with teachers to analyze student performance data at the classroom level, including PARCC results and Benchmark Assessments, to identify students with particular skill weaknesses, and tailor instruction to remediate.
- Continue to focus on retention of math content, from one course to the next, through targeted skill review exercises.
- Continue to focus on multi-step problem solving exercises.
- Continue to elevate the rigor of our instruction and assessment through our new math program and resources: McGraw-Hill My Math and the related intervention program, Number Worlds.
- Work with teachers and building administration to discuss potential causes of achievement gaps among minority and economically disadvantaged students, and define and implement strategies close gaps.
- Math Supervisor, Math Subject Area Leaders, and teachers will analyze the Evidence Statement Reports, once available, to look for patterns in commonly missed topics from year to year, and determine if there is a curricular cause, or a need for greater instructional focus.

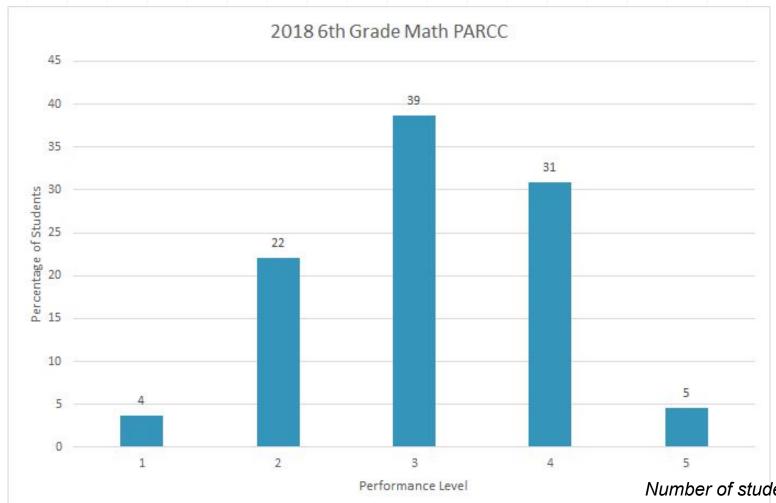


### THE STORY IN THE NUMBERS: DELRAN MIDDLE SCHOOL

- Steady increase in students meeting or exceeding grade level expectations ("passing")
- Steady decrease in students at Level 1 "Did Not Yet Meet Expectations," and Level 2 "Partially Met Expectations"
- A large percentage of students achieving a Level 3 "Approached Expectations" at each grade level in comparison to NJ and multi-state averages. There is a need to explore why a large number of our students are coming close to, but not quite, meeting expectations and achieving what is considered a "passing" score.



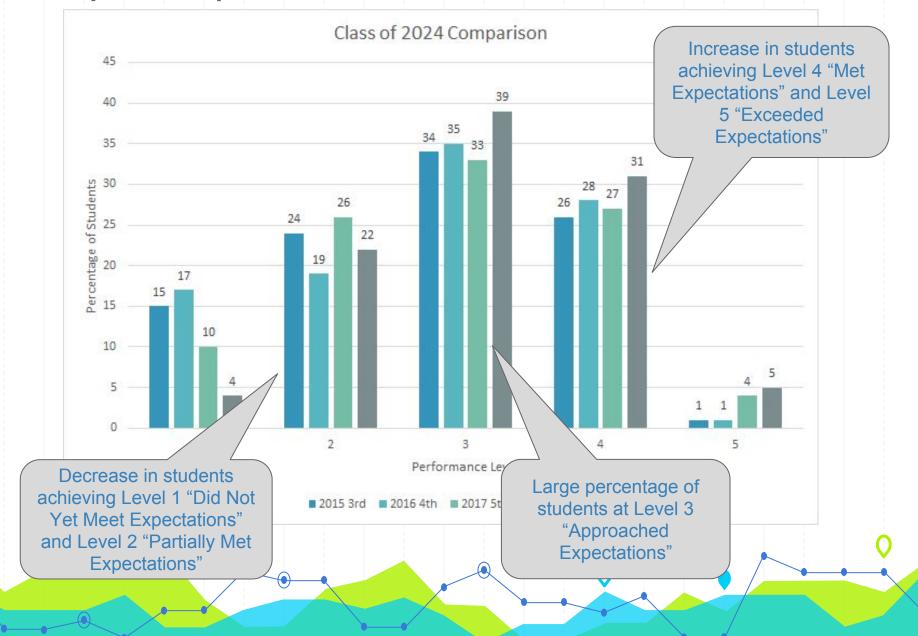
### **Grade 6 Mathematics**



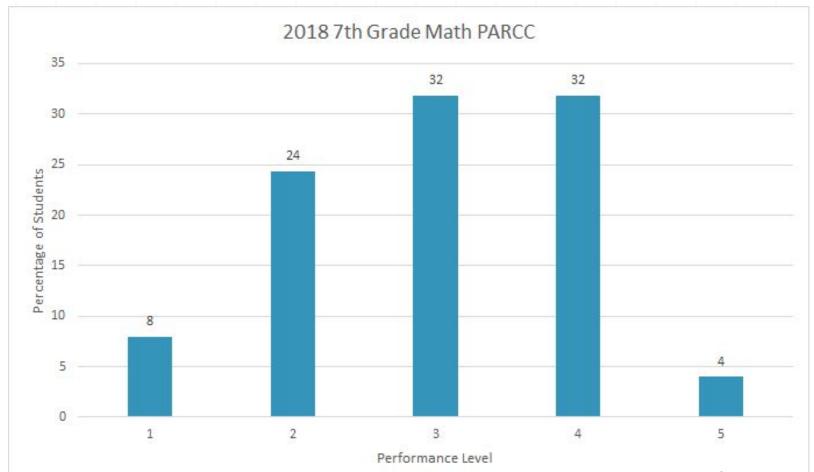
Number of students tested: 217

Refusals: 30

## Group Comparison for the Class of 2024



### **Grade 7 Mathematics**



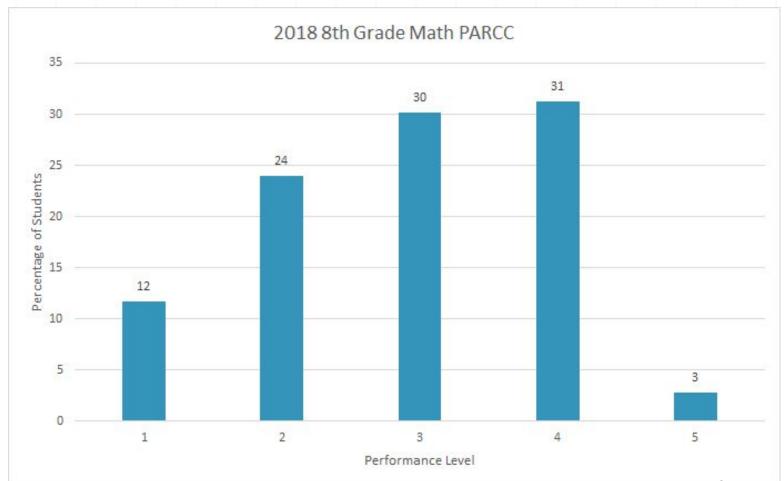
Number of students tested: 201



### Group Comparison for the Class of 2023



### **Grade 8 Mathematics**



Number of students tested: 179 Refusals: 20



### **DISAGGREGATED SUBGROUPS: DELRAN MIDDLE SCHOOL**

**Gender:** Comparable in 6th & 7th grade, with a drop in female students' scores in on-level 8th grade math (average scale scores 12 points lower than males; 18% of girls passing as compared to 46% of boys)

**Ethnicity:** Somewhat comparable, with Black and Hispanic/Latino students achieving an average scale score 9-19 points lower than White students in 6th and 7th grades, and Black students achieving an average scale score 7 points higher than White students in 8th grade on-level math

**Economically Disadvantaged:** Average scale score 11-12 points lower, passing rates 11-19% lower than non-economically disadvantaged peers

<u>Students with Disabilities:</u> Average scale score 24-30 points lower than non-disabled peers

**English Language Learners:** Average scale score 20-38 points lower than native English speakers

### **NEXT STEPS FOR MATH: DELRAN MIDDLE SCHOOL**

- Work with teachers to analyze student performance data at the classroom level, including PARCC results and Benchmark Assessments, to identify students with particular skill weaknesses, and tailor instruction to remediate.
- Continue to focus on retention of math content, from one course to the next, through targeted skill review exercises.
- Continue to focus on multi-step problem solving exercises.
- Monitor how the implementation of a new program and resources at the K-5 level (My Math and its corresponding intervention program) impacts the performance of students entering DMS over the next few years.
- Work with teachers and building administration to discuss potential causes of achievement gaps among minority and economically disadvantaged students, and 8th grade girls, and define and implement strategies close gaps.
- Math Supervisor, Math Subject Area Leaders, and teachers will analyze the Evidence Statement Reports, once available, to look for patterns in commonly missed topics from year to year, and determine if there is a curricular cause, or a need for greater instructional focus.

## Cohort Comparison for the Class of 2022 or Algebra I

\*Cohort Comparison data is not available for the Class of 2022 (Rising 9th graders).

Students follow one of two course sequences from 7th grade into 8th grade math:

7th Grade Accelerated Math in 2017 > Algebra I in 2018 (58 students)
7th Grade On-Level Math in 2017 > 8th Grade On-Level Math in 2018 (179 students)

The 8th grade (2018) data for Grade 8 Mathematics includes ONLY those students who took 8th Grade On-Level Math. Students who took Algebra I as 8th graders took the Algebra I PARCC test, and their scores are included in the Algebra I results.

Algebra I results include all students taking Algebra I, some of whom took the course at DMS as 8th graders, and some of whom took the course at DHS as 9th graders or higher.

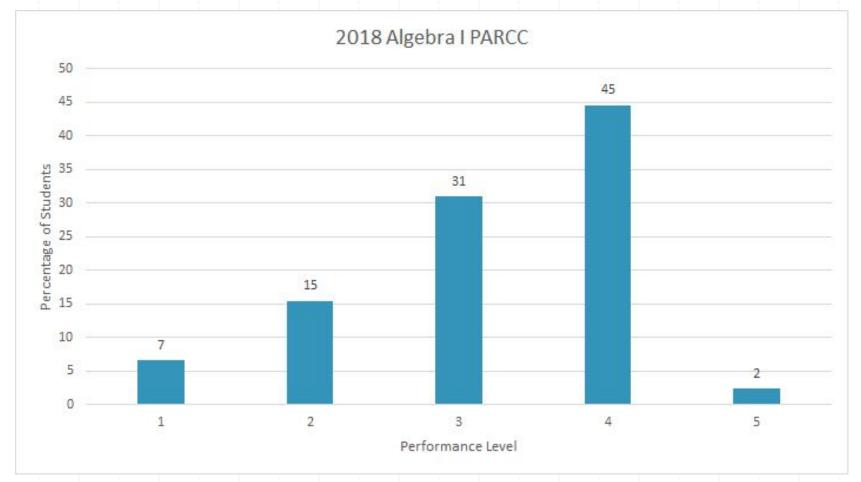


### THE STORY IN THE NUMBERS: DELRAN HIGH SCHOOL

- Large increase in percentage of students "passing" Algebra I assessment with a score of level 4 or 5.
- O refusals for Algebra I (graduation requirement), but high levels of refusals for Algebra II (mostly 10th and 11th graders who have already met their graduation requirement another way).
- A large percentage of students achieving a Level 3 "Approached Expectations" at each grade level in comparison to NJ and multi-state averages. There is a need to explore why a large number of our students are coming close to, but not quite, meeting expectations and achieving what is considered a "passing" score.
- Low passing rates on both Geometry and Algebra II reflect the anti-testing climate in our district, especially among students who view the PARCC as inconsequential to them personally.

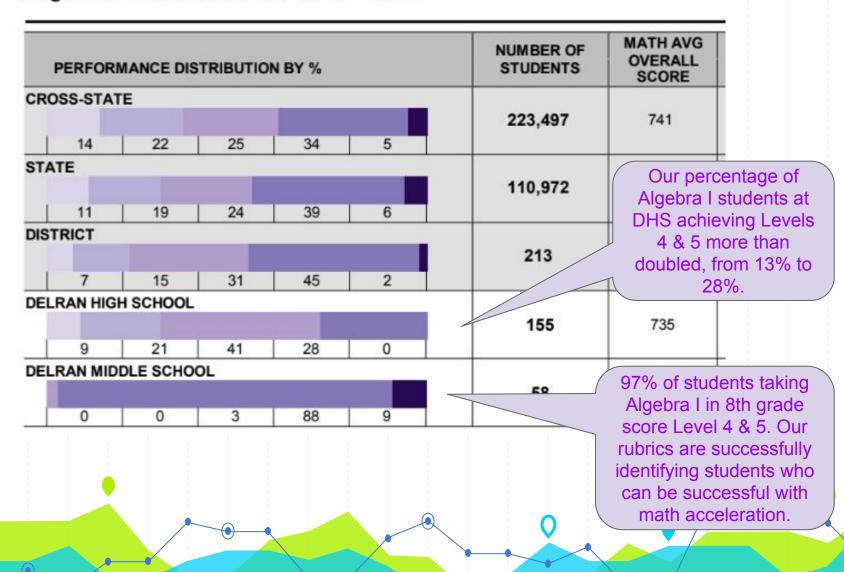


## Algebra I

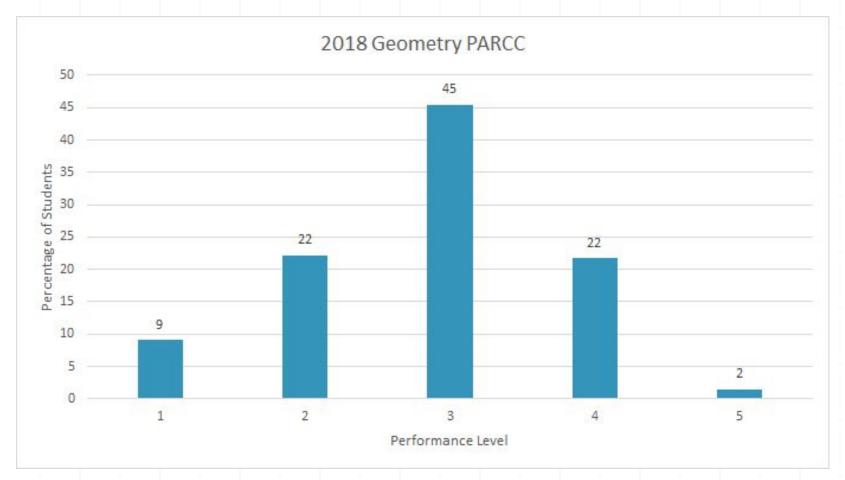




### MATHEMATICS Algebra I Assessment, 2017–2018



## Geometry

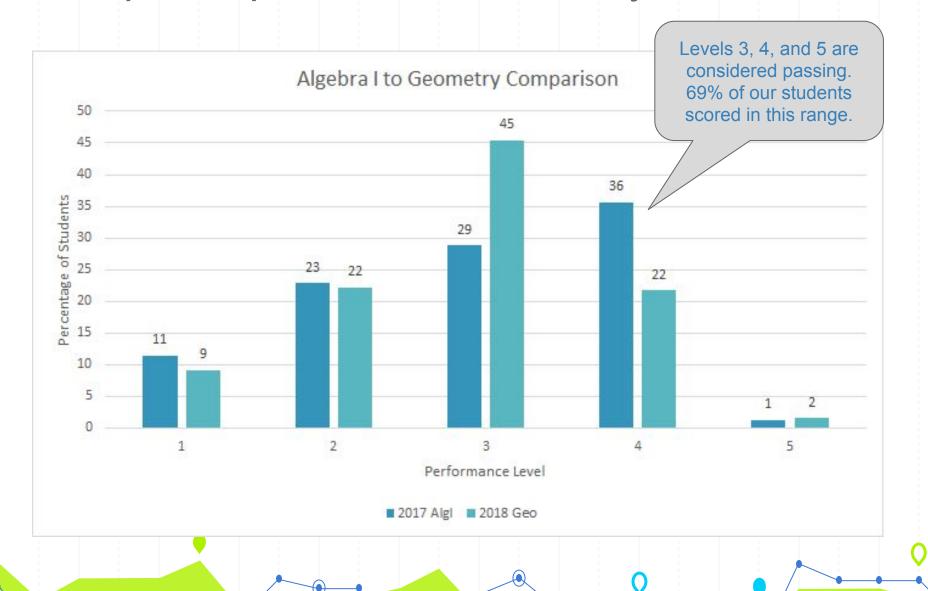


\*Level 3 & above is considered "passing" for Geometry & Algebra II.

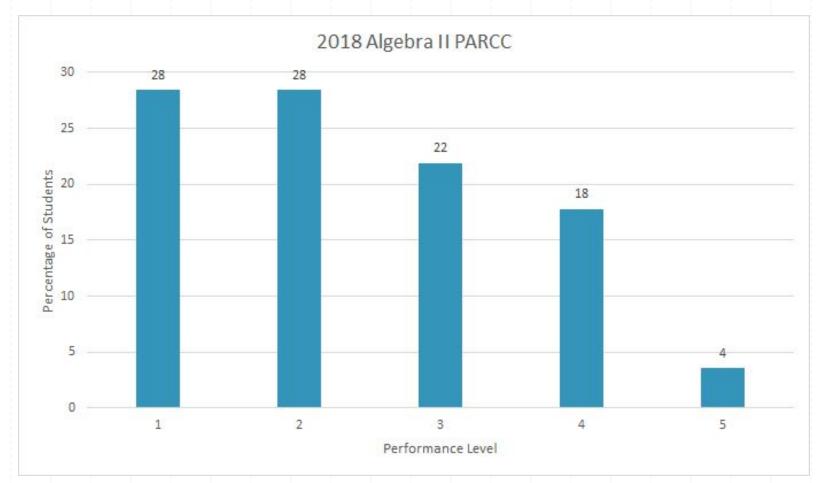
Number of students tested: 198 Refusals: 3



## Group Comparison for Geometry



## Algebra II

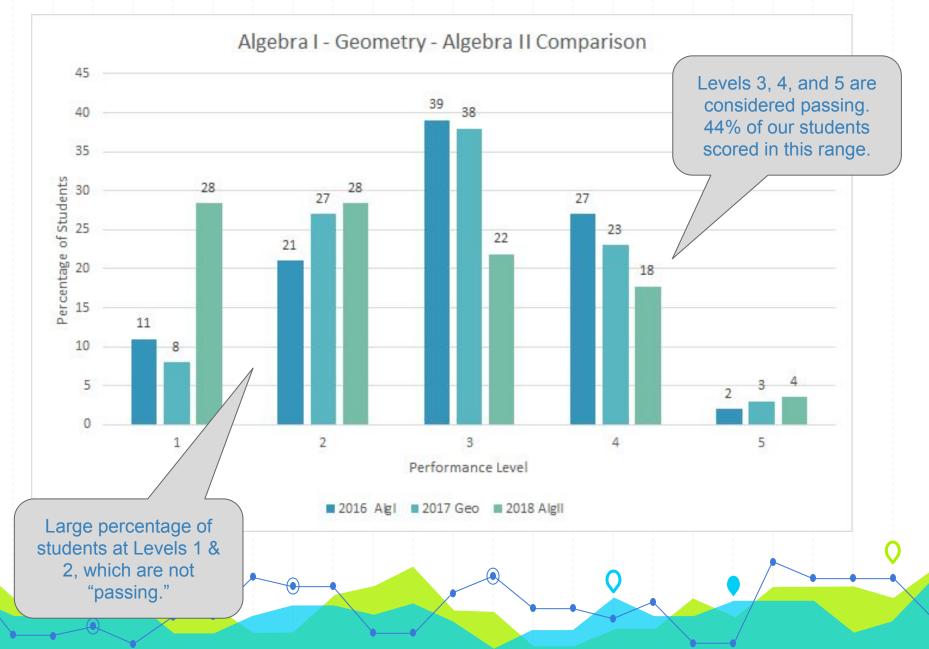


\*Level 3 & above is considered "passing" for Geometry & Algebra II.

Number of students tested: 169 Refusals: 54



## Group Comparison for Algebra II



### **DISAGGREGATED SUBGROUPS: DELRAN HIGH SCHOOL**

**Gender:** Comparable

**Ethnicity:** Somewhat comparable, with Black and Hispanic/Latino students achieving an average scale score 9-24 points lower than White students

**Economically Disadvantaged:** Average scale score 14-20 points lower, passing rates 8-36% lower than non-economically disadvantaged peers

<u>Students with Disabilities:</u> Average scale score 24-34 points lower than non-disabled peers

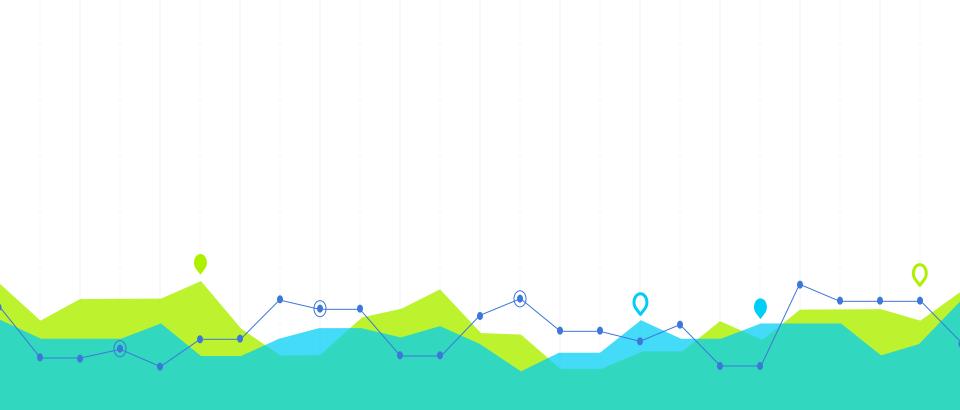
**English Language Learners:** Average score scale 32-37 points lower than native English speakers



### **NEXT STEPS FOR MATH: DELRAN HIGH SCHOOL**

- Work with teachers to analyze student performance data at the classroom level, including PARCC results, Benchmark Assessments, and common assessments, to identify students with particular skill weaknesses, and tailor instruction to remediate.
- Continue to focus on retention of math content, from one course to the next, through targeted skill review exercises.
- Increase focus on Math Content Standards, and instructional practices to support them, through Professional Learning Community meetings and Professional Development with consultant David Ginsburg.
- Work with teachers and building administration to discuss potential causes of achievement gaps among minority and economically disadvantaged students, and define and implement strategies close gaps.
- Math Supervisor, Math Subject Area Leaders, and teachers will analyze the Evidence Statement Reports, once available, to look for patterns in commonly missed topics from year to year, and determine if there is a curricular cause, or a need for greater instructional focus.





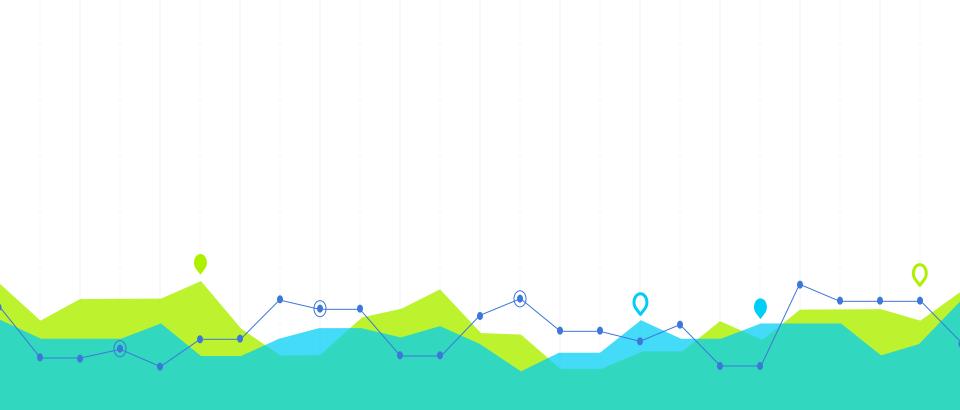
## 2018 PARCC Mathematics Summer Administration Results

Mary Jo Hutchinson, K-12 Supervisor of Mathematics, Business, Robotics & Co-Coordinator of STEM Programming

### **ALGEBRA I: TAKE TWO (AGAIN)**

- 66 students scored at Level 3, "approaching expectations" on the 2018 Algebra I PARCC, within 25 points of a Level 4 passing score.
- 44 students accepted our invitation to participate in a four-day intensive version of the Algebra Applications
   Techniques Learning Module this summer.
- 43 completed the PARCC summer administration window of the Algebra I assessment.
- Results expected sometime in September, 2018.





## 2017 PARCC English Language Arts Results

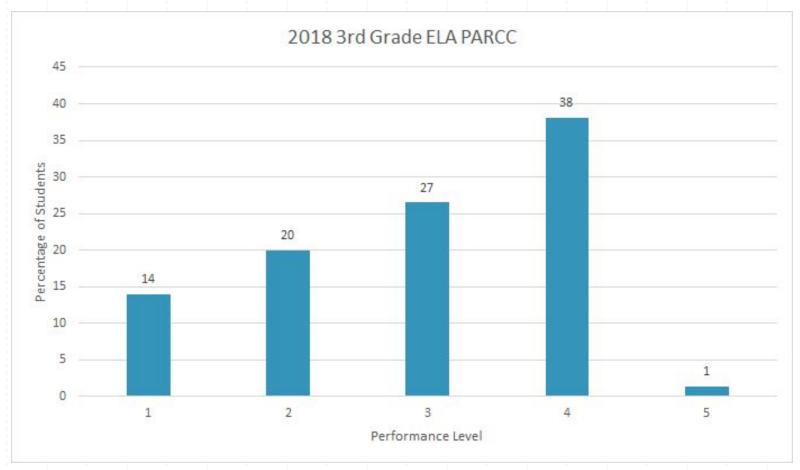
Prepared by Eileen Baker, K-12 Supervisor of English Language Arts, World Language, ESL, and Media Specialists

#### THE STORY IN THE NUMBERS: DELRAN INTERMEDIATE SCHOOL

- Overall, fewer students are performing at levels one and two.
- Greatest percentage of students performing at Level 4- Met Expectations
- Increase in 4th grade in number of students at level five.
- Consistently scoring above other states (average) in our performance and within two points of NJ average scores.



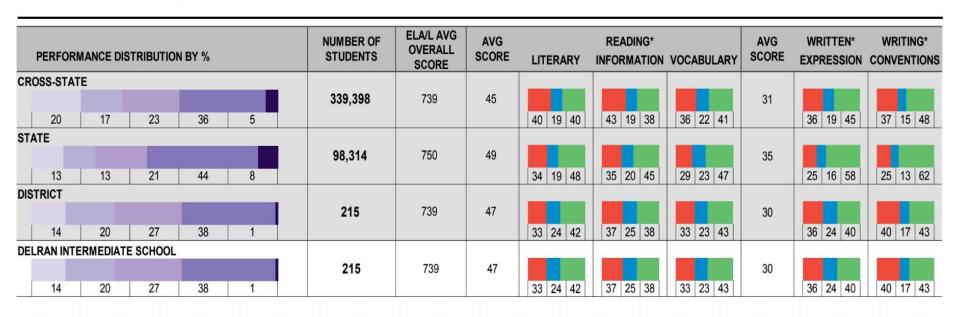
## Grade 3 English Language Arts



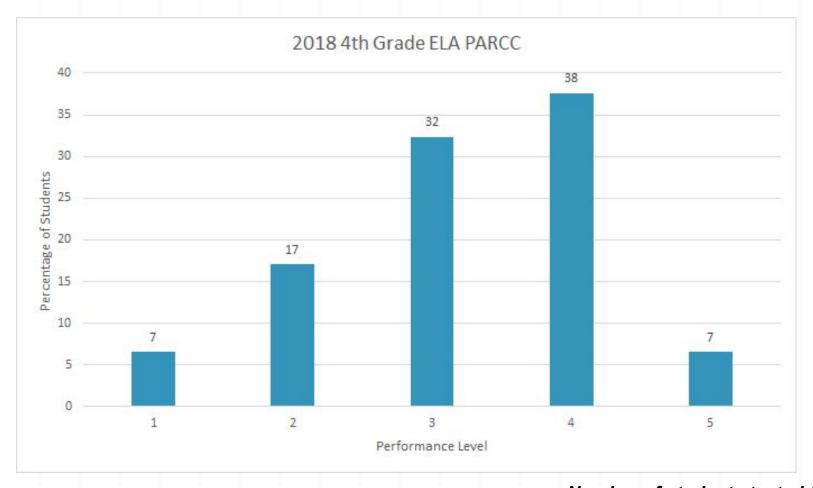
Number of students tested :215

Refusals: 5

## ENGLISH LANGUAGE ARTS / LITERACY Grade 3 Assessment, 2017–2018

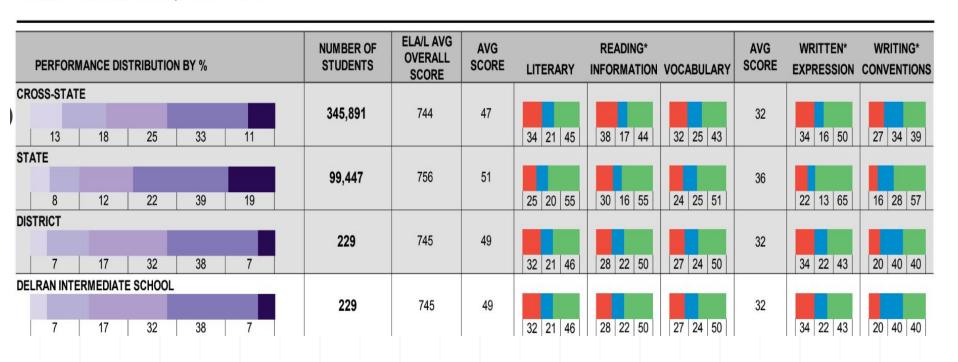


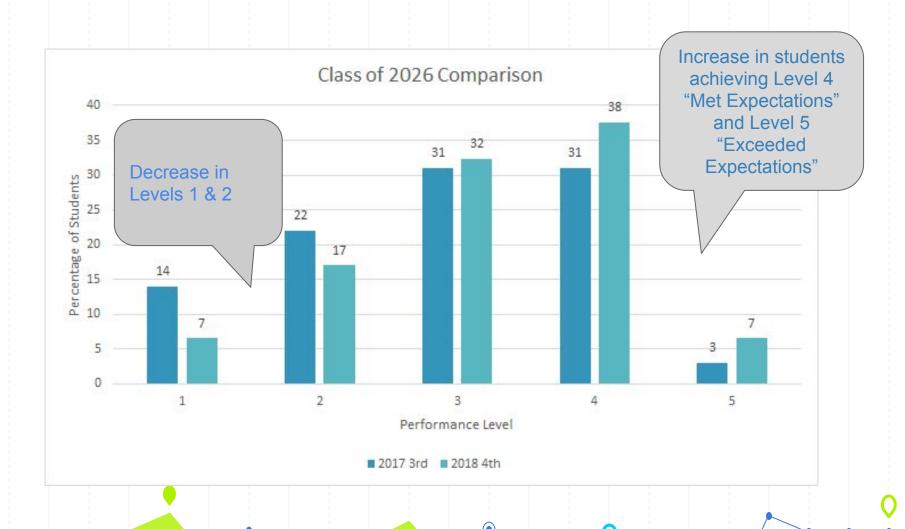
# Grade 4 English Language Arts



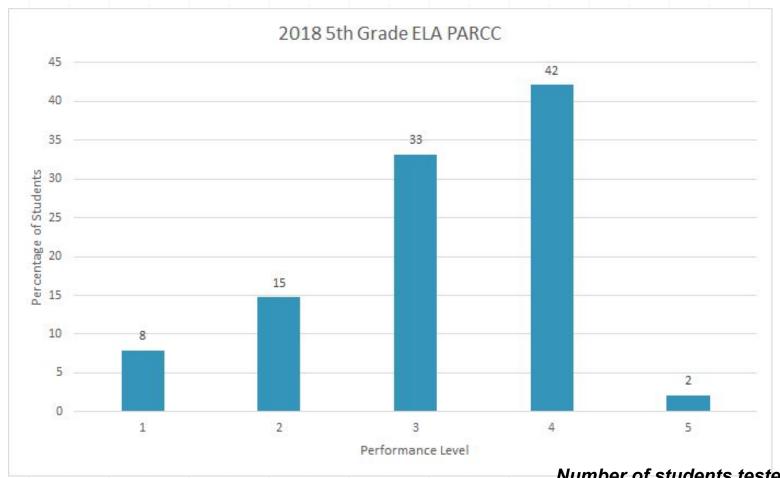


# ENGLISH LANGUAGE ARTS / LITERACY Grade 4 Assessment, 2017–2018





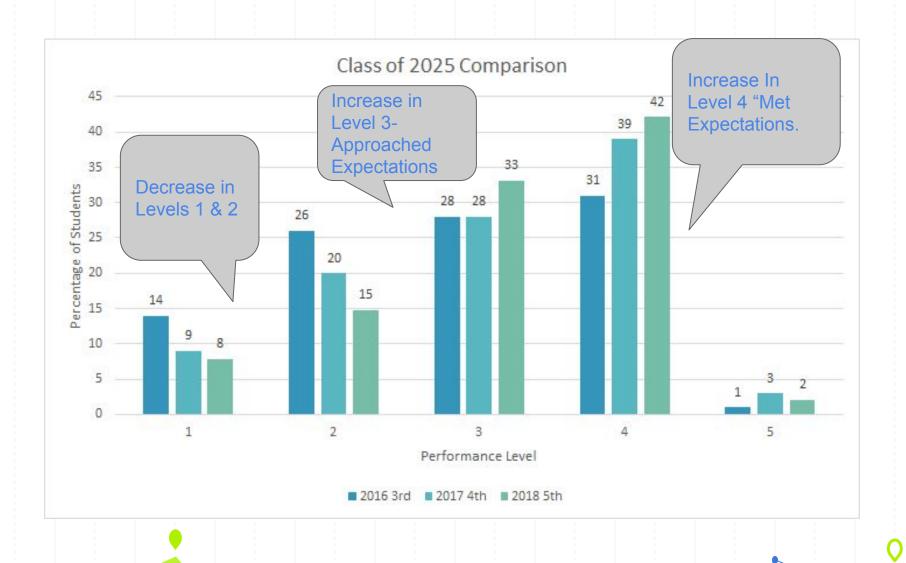
# Grade 5 English Language Arts



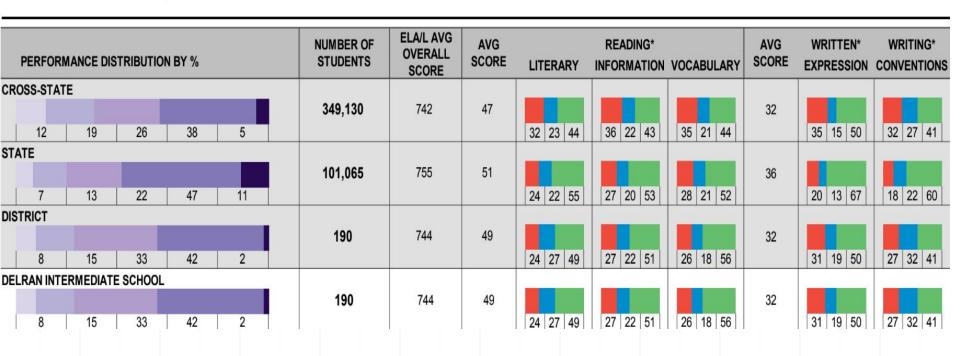
Number of students tested: 190

Refusals: 15





# ENGLISH LANGUAGE ARTS / LITERACY Grade 5 Assessment, 2017–2018





### DISAGGREGATED SUBGROUPS: DELRAN INTERMEDIATE SCHOOL

**Gender:** Comparable in 3rd & 4th grade, with a higher average scale score of females in all three grades, with a significant increase in 5th grade (19 points higher)

**Ethnicity:** Somewhat comparable, with Black and Hispanic/Latino students achieving an average scale score 9-14 points lower than White students in 4th and 5th grades; however significantly lower in 3rd grade with Black students achieving an average scale score 29 points lower than White students in 3rd grade ELA

**Economically Disadvantaged:** Average scale score 14-17 points lower, passing rates approx. 18-24% lower than non-economically disadvantaged peers

<u>Students with Disabilities:</u> Average scale score points 28 (average) lower than non-disabled peers

English Language Learners: Average scale score 37 points lower than native English speakers in 5th, 18 pts. lower in 4th & 19 in 3rd



### **NEXT STEPS FOR ELA: DELRAN INTERMEDIATE SCHOOL**

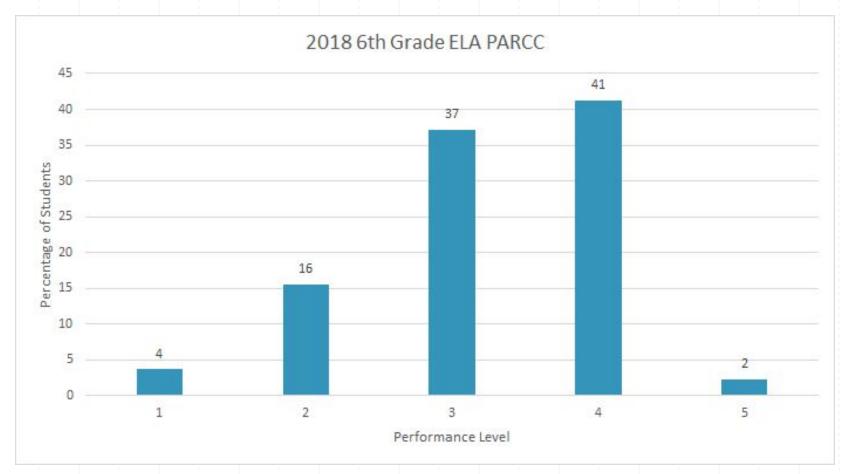
- Work together to analyze student performance data at the classroom/grade level.
  - This will continue to be done at grade level articulations
    - Norming our students' writing
    - Identifying standards in reading that may need more focus
- Analyze the Evidence Statement Reports, once available, to look for patterns in commonly missed topics/standards from year to year to determine if there is a curricular cause.
  - Work together at grade level articulations to identify strength & needs
  - Use this data to drive our instruction
- Continue to focus on building stamina in both reading and writing.
- Continue to integrate grammar and vocabulary via authentic means.
  - Resources/guides were developed this summer to assist in 4th & 5th grade
  - Full implementation of Fundations this year in 3rd grade
  - Holding students accountable
- Continue to elevate the rigor of our instruction and assessment.
- Build background knowledge for our ELLs and Black/African American students; added additional PT staff for ESL
- Celebrate our successes!

### THE STORY IN THE NUMBERS: DELRAN MIDDLE SCHOOL

- Significant increase in performance at levels four and five in 7th and 8th grade
  - Above the State in both reading and writing as well as the average score in 8th grade
- Strong performances in 6th & 7th grade compared to the State average (one point lower than the State)
- Performed above the average scores in all three grades compared to other states.
- Decreases in levels one and two
- Evidence of improvement in nonfiction proficiency in all three grades
- Demonstration of strength in writing in 8th grade (above the State)



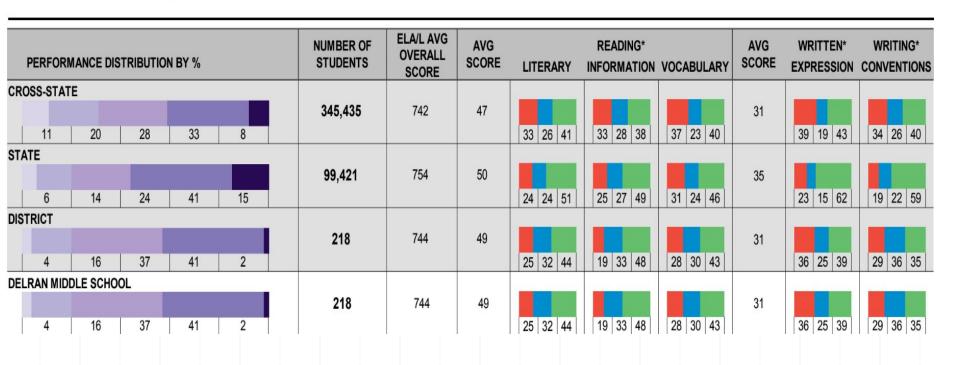
# Grade 6 English Language Arts

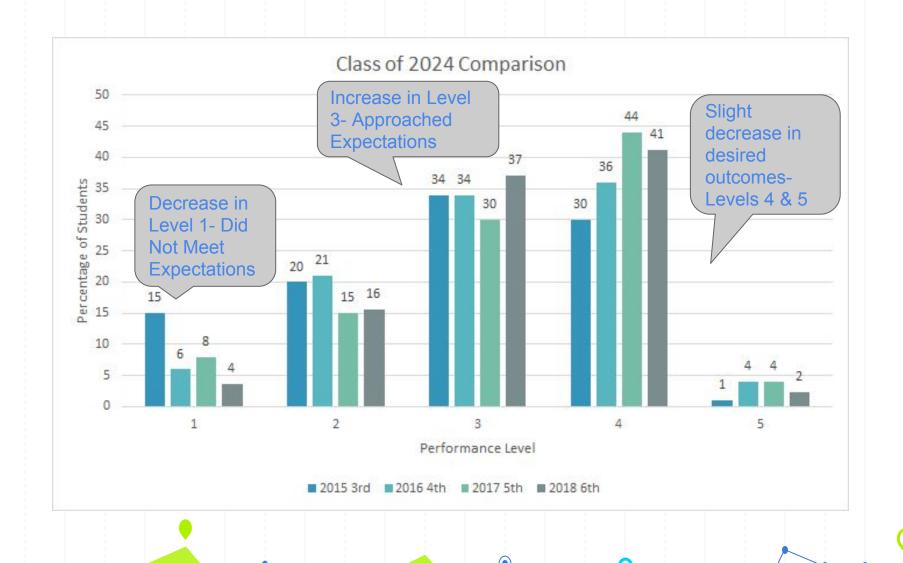


Number of students tested: 218 Refusals: 29

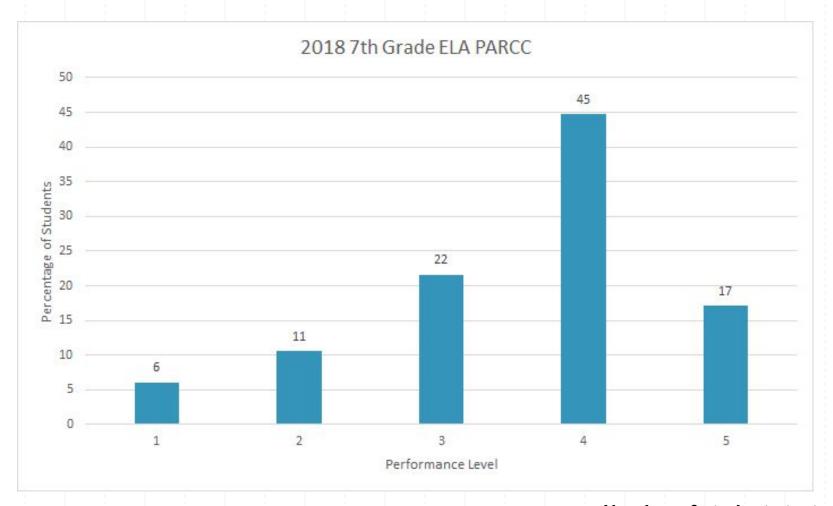


# ENGLISH LANGUAGE ARTS / LITERACY Grade 6 Assessment, 2017–2018





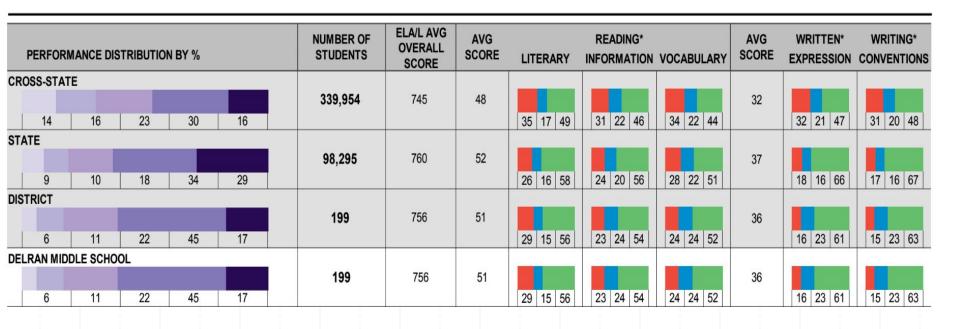
# Grade 7 English Language Arts



Number of students tested: 199 Refusals: 15 No score: 2

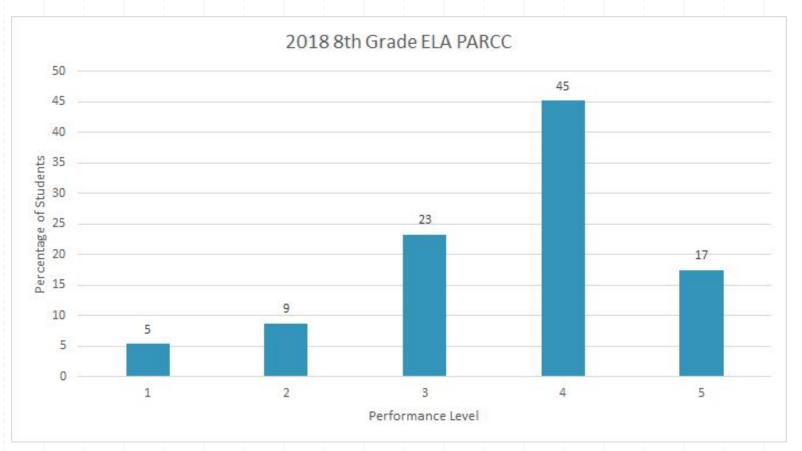
### ENGLISH LANGUAGE ARTS / LITERACY

### Grade 7 Assessment, 2017–2018





# Grade 8 English Language Arts

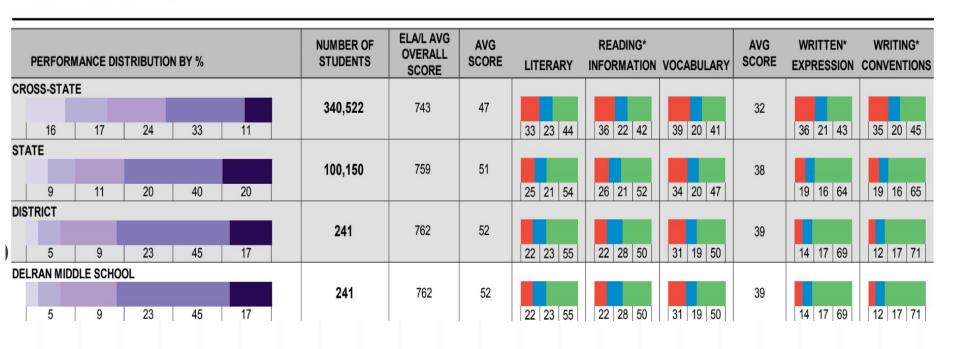


Number of students tested: 241 Refusals: 20

No score: 1

#### **ENGLISH LANGUAGE ARTS / LITERACY**

#### Grade 8 Assessment, 2017–2018



### Cohort Comparison for the Class of 2022



### **DISAGGREGATED SUBGROUPS: DELRAN MIDDLE SCHOOL**

**Gender:** Comparable in 6th & 8th grade, with a higher average scale score of females in all three grades, with a significant increase in 7th grade (19 points higher)

**Ethnicity:** Somewhat comparable, with Black and Hispanic/Latino students achieving an average scale score 7-13 points lower than White students in 6th and 7th grades, and Black students achieving an average scale score 4 points higher than White students in 8th grade ELA (82% of Black Ss passed vs.60% of White Ss). Asian Ss consistently scored higher; significantly in 6th & 7th (21 pts. in 6th & 34 pts. in 7th)

**Economically Disadvantaged:** Average scale score 16 (aver) points lower, passing rates approx. 15-20% lower than non-economically disadvantaged peers

<u>Students with Disabilities:</u> Average scale score points 28 (average) lower than non-disabled peers

English Language Learners: Average scale score 76 points lower than native English speakers in 8th, 63 pts. lower in 7th &

19 in 6th

### **NEXT STEPS FOR ELA: DELRAN MIDDLE SCHOOL**

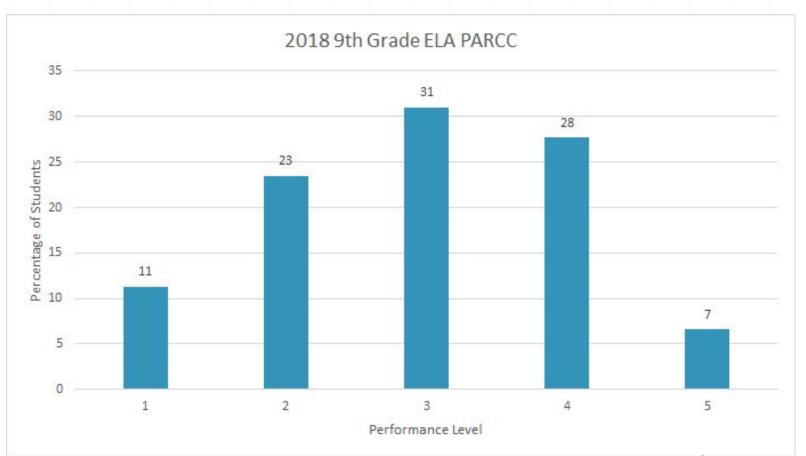
- Work together to analyze student performance data at the classroom/grade level.
  - Use common assessments to identify areas of strength & need
  - Norm our students' writing- use data gained to drive instruction
  - Use small group instruction to hone in on specific needs (Dept. goal)
- Analyze the Evidence Statement Reports, once available, to look for patterns in commonly missed topics from year to year to determine if there is a curricular cause.
  - Use the data to drive our instruction
- Continue to focus on building stamina in both reading and writing.
  - Prioritize time for students to authentically read and write
- Continue to integrate grammar and vocabulary via authentic means.
- Continue to elevate the rigor of our instruction and assessment.
  - Adding additional Units of Study as they become available
  - Use our newly created common reading assessments and articulate areas of need if necessary(living document)
- We have increased the SEI teachers to help with ELLs

### THE STORY IN THE NUMBERS: DELRAN HIGH SCHOOL

- Female students demonstrate significant strength overall, especially in 11th grade (average scale score 31 pts. higher)
- Decrease in level five in 9th & 11th grades
  - higher rate of refusals in these grades
    - 92 refusals in 11th
    - 4 refusals in 10th
    - 24 refusals in 9th
- Overall decrease in desired performance in 10th grade except for level five
- We need to acknowledge/recognize the lower scores as compared to the State and other states to determine if it's culture or curricular.
  - Our next steps will help us analyze and remediate



# Grade 9 English Language Arts



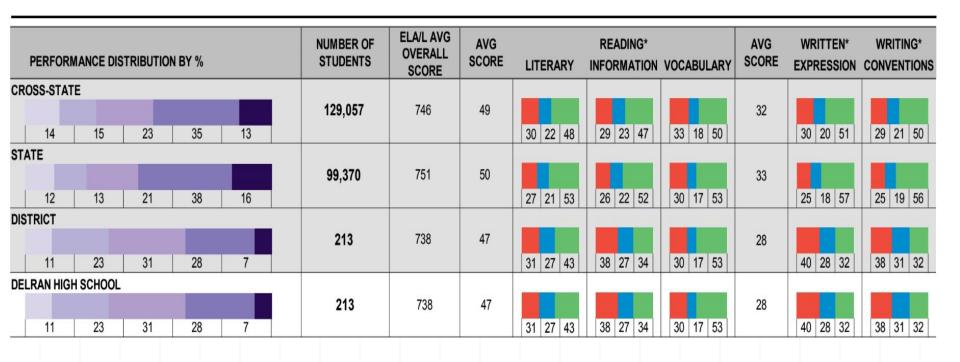
Number of students tested: 213

Refusals: 24 No score: 1



### ENGLISH LANGUAGE ARTS / LITERACY

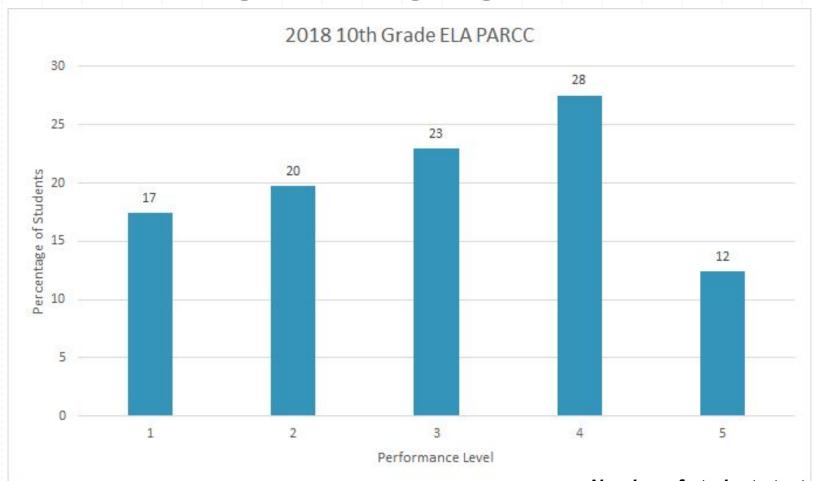
### Grade 9 Assessment, 2017–2018







### Grade 10 English Language Arts



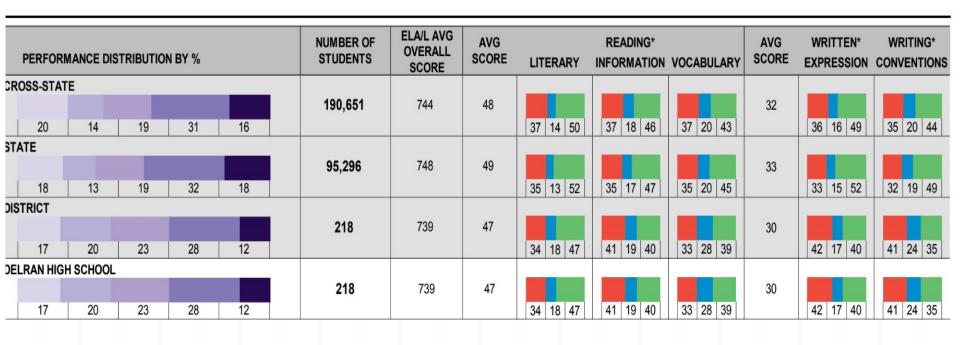
Number of students tested: 218

Refusals: 4

No score: 3

#### ENGLISH LANGUAGE ARTS / LITERACY

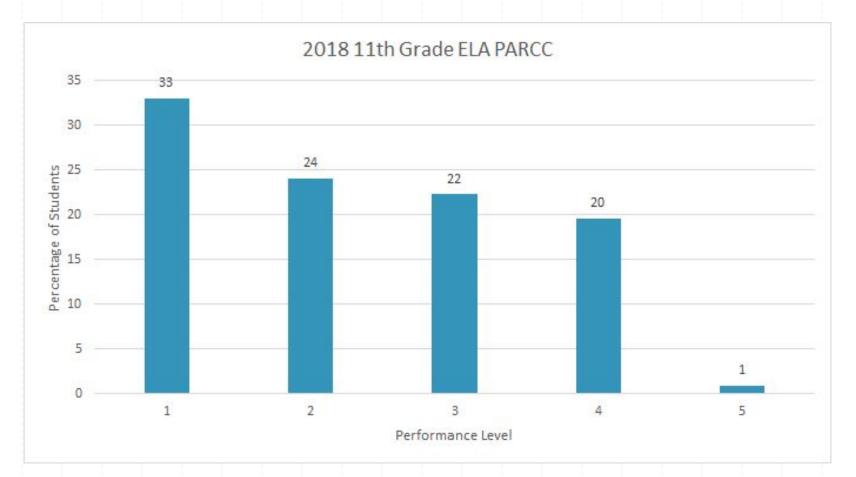
#### Grade 10 Assessment, 2017–2018







### Grade 11 English Language Arts



Number of students tested: 112
Refusals: 92
No score: 0

# ENGLISH LANGUAGE ARTS / LITERACY Grade 11 Assessment, 2017–2018

PERFORM	MANCE DIS	TRIBUTIO	ON BY %		NUMBER OF STUDENTS	ELA/L AVG OVERALL SCORE	AVG SCORE	READING* LITERARY INFORMATION VOCABULARY			AVG SCORE	WRITTEN* EXPRESSION	WRITING* CONVENTIONS
CROSS-STAT					104,429	736	45				29		
STATE	17	23	31	8				38 21 41	41 20 39	39 25 36		42 16 42	42 22 37
23	17	22	29	9	69,346	735	44	40 20 40	42 19 38	39 24 37	28	45 15 40	44 20 36
DISTRICT			20		112	719	39	10 20 10	12 10 00	00   21   01	23	10 10 10	11 20 00
33	24	22	20	1	112	713	39	46 28 26	61 19 21	48 22 29	23	65 12 23	66 15 19
DELRAN HIGH	H SCHOOL												
33	24	22	20	1	112	719	39	46 28 26	61 19 21	48   22   29	23	65 12 23	66   15   19



### DISAGGREGATED SUBGROUPS: DELRAN HIGH SCHOOL

**Gender:** Comparable in 9th & 10th grade, with a higher average scale score of females in all three grades, with a significant increase in 11th grade (31 points higher)

**Ethnicity:** Slightly comparable with Black & Hispanic students scoring 12-21 pts. lower than White Ss in 9th grade; comparable in 10th between Black and White students; however they achieved an average scale score 15-20 pts.higher than Hispanic students; comparable between Black & Hispanic Ss in 11th grade scoring between 10-12 pts. lower than White Ss.

**Economically Disadvantaged:** Average scale score 17-24 points lower than non-disadvantaged

Students with Disabilities: Average scale score points range from 24 lower in 9th, 41 pts. lower in 10th & 4 pts. in 11th than non-disabled peers

English Language Learners: Average scale score 53 points lower than native English speakers in 9th, 44 pts. lower in 10th & 21 pts. in 11th

### **NEXT STEPS FOR ELA: DELRAN HIGH SCHOOL**

- Work together to analyze student performance data at the classroom/course/grade level. Use Benchmarks & other common assessments. Use PLC time to articulate and generate solutions.
- Analyze the Evidence Statement Reports, once available, to look for patterns in commonly missed topics from year to year to determine if there is a curricular cause.
- Continue to focus on building stamina in both reading and writing.
  - Work in PLCs to analyze our time spent in books and the number of writing pieces expected
    - Generate expectations for improvement; organic goal for Dept.
  - Book Club- A Novel Approach to begin the process of infusing Reader's Workshop with whole class novels
- Continue to integrate grammar and vocabulary via authentic means.
- Continue to increase the number of teachers trained in Sheltered Instruction (four teachers trained during the summer) for our ELLs
- Continue to elevate the rigor of our instruction and assessment.

# **2017-2018 PARCC Results**

### **Board Discussion**