

# 2022 STATEWIDE ASSESSMENTS RESULTS

Measuring  
Our  
Student  
Learning

Presented by:

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Suzy Azevedo

Ed Porowski

Tuesday, November 1, 2022

# **ACCESS Testing Results**

*Spring 2022*

# Terminology

- **English as a Second language (ESL)**-Refers to our type of instructional delivery. Not a label for a student.
- **English Language Learner (ELL)**- Refers to student
  - Asset Based Labels
    - Emerging Bilingual
    - Multilingual Learner

# Emerging Bilinguals Across the District

Grade	Sp 21'	Sp 22'	Fal l 22'
K	5	5	4
1	3	9	9
2	1	5	6
3	5	3	4
4	5	8	6
5	2	3	6
6	1	1	6

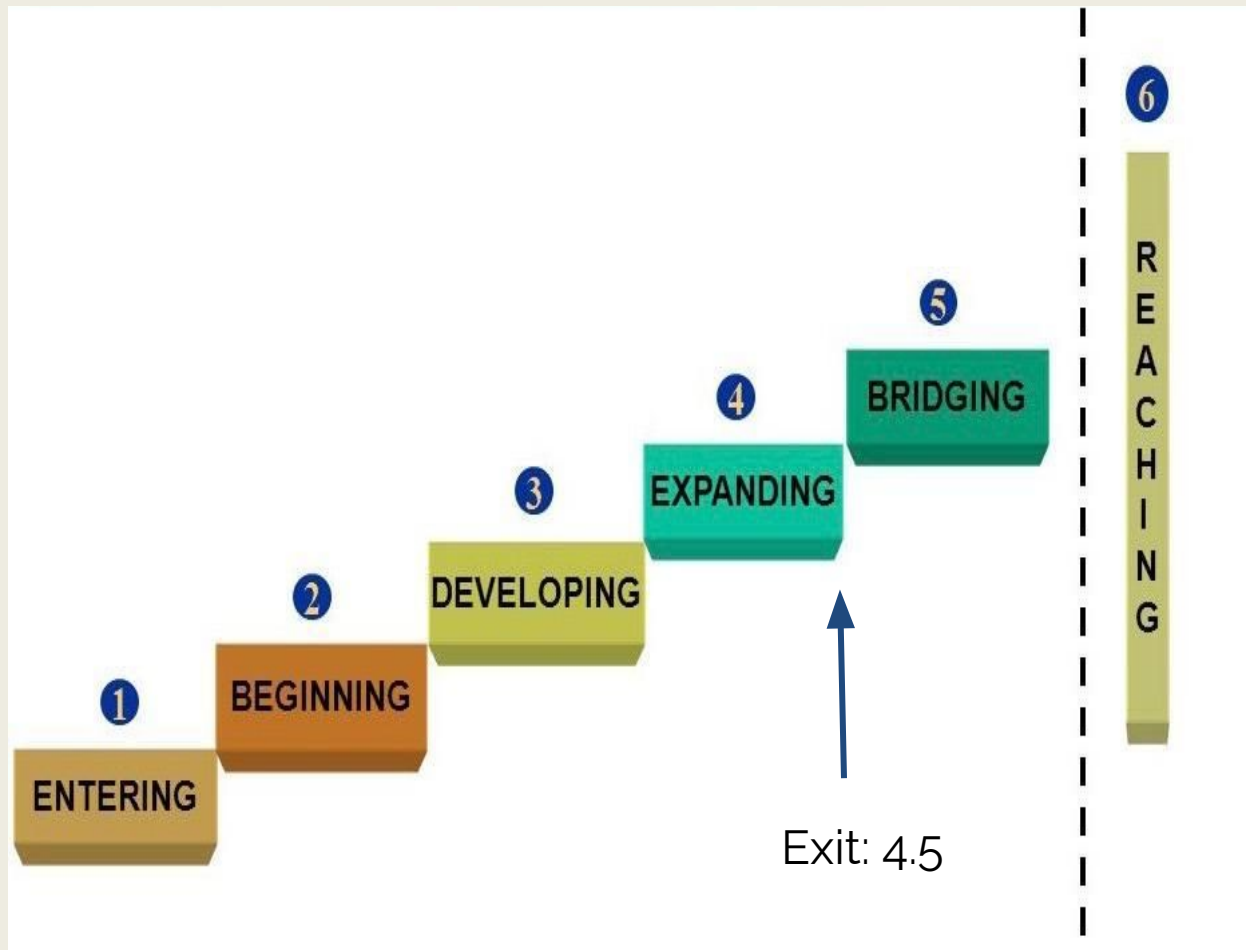
Grade	Sp 21'	Sp 22'	Fal l 22'
7	0	0	3
8	3	3	1
9	0	4	2
10	3	1	2
11	2	2	1
12	3	2	2
Total	33	46	51

# Participation Rate

100%\*

\*Two students arrived after testing window had closed

# Interpreting the Data



# Score Distribution

<b>Composite Score</b>	<b># of students</b>	<b>% of Assessed</b>
1-1.9	6	13.6%
2-2.9	10	22.7%
3-3.9	15	34.1%
4-4.4	5	11.4%
>4.5	8	18.2%

# Interventions and Supports

- Double Block of ESL at Moss, EMS and MHS
- Creation of ELL Profiles
  - Background information
  - Can Do descriptors to guide instruction
  - Recommended Accommodations
- Ongoing professional development for ELL teacher
  - Focused on utilizing ACCESS data to drive instruction
- Trained 4 teachers in Sheltered Instruction Observation Protocols
  - Scheduled ELL students intentionally with trained staff members
- Trained administrators and school counselors
- Ongoing built in consultation with the ESL Teacher
- Ongoing content area teacher coaching with a Title III Consultant in SIOP strategies at CES
- Continuing to offer 10 hour SIOP Course for teachers to support ELLs in classroom
- ESSER Tutoring



# NJSLA Test Participation

## Benefits

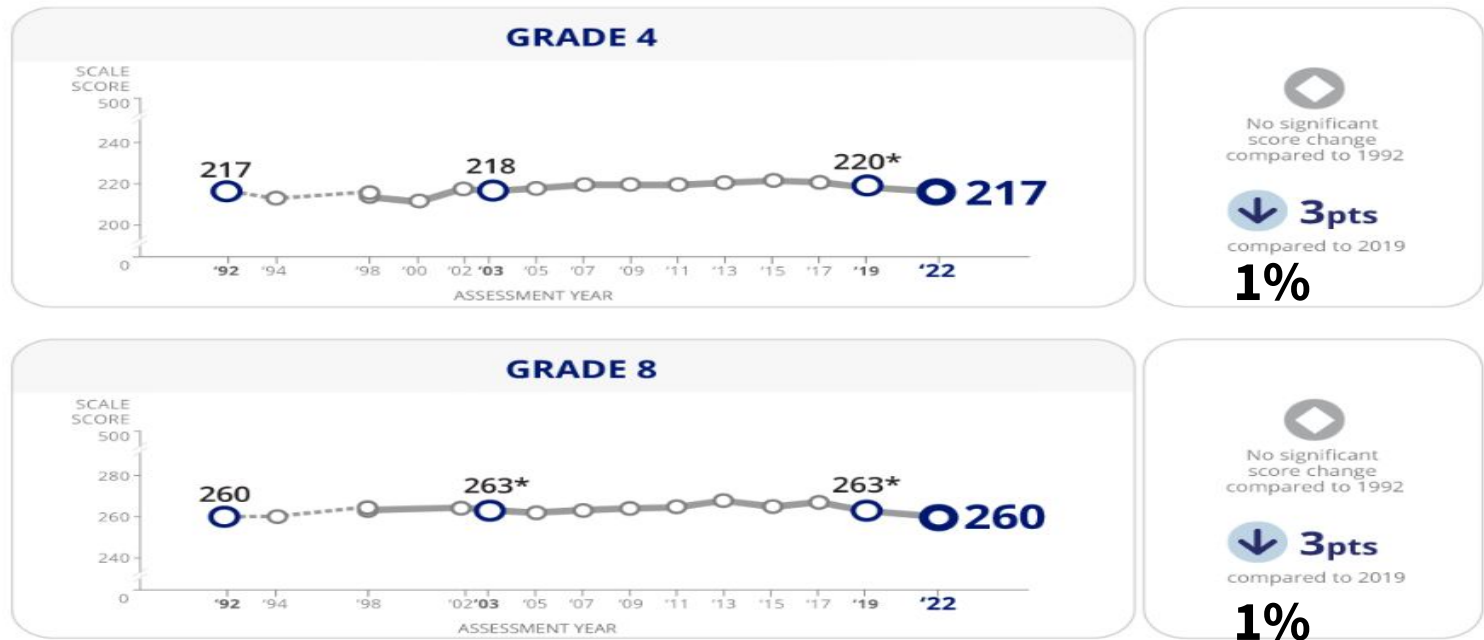
**Total NJSLA Participation Rate  
in Metuchen for 2022**

**99%**

1. Valid data to inform us what our students are learning and what they can learn more of
2. The effectiveness of our:
  - Curriculum
  - Instruction
  - Assessments
  - Professional Development

# ELA Results: Comparing 2019 to 2022 in US NAEP Reading Results 1992-2022

FIGURE | Trend in fourth- and eighth-grade reading average scores



----- Accommodations not permitted

———— Accommodations permitted

\* Significantly different ( $p < .05$ ) from 2022.

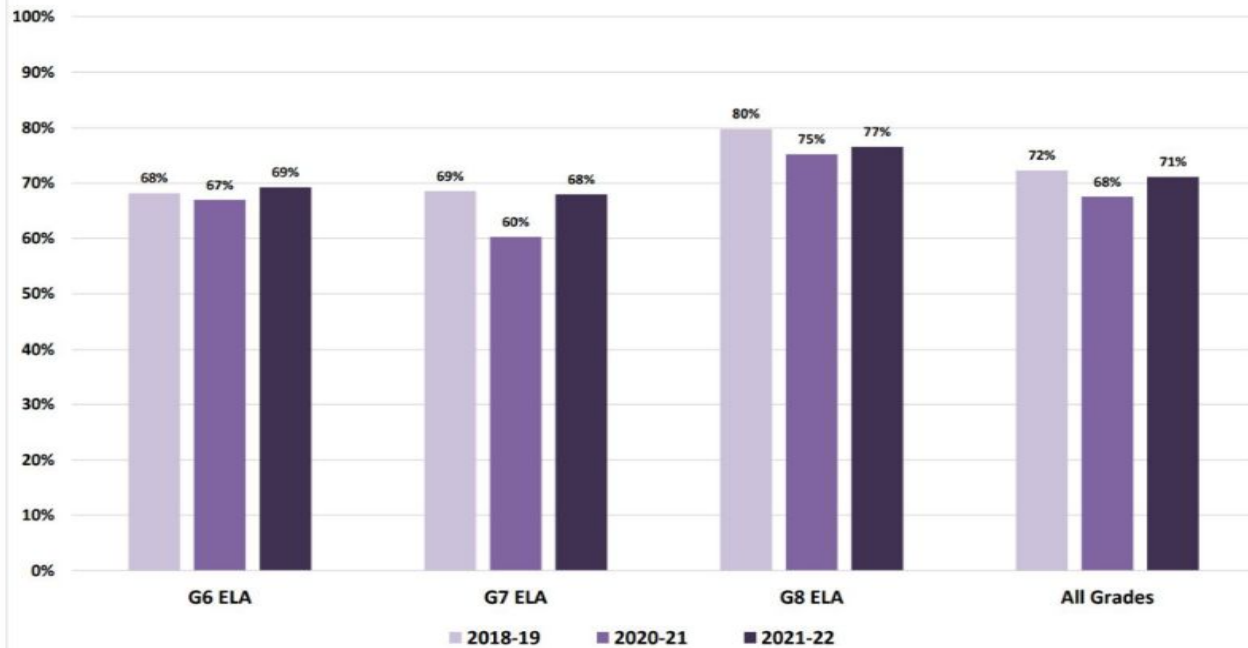
# ELA Results: Comparing 2019 to 2022 in Metuchen Local Benchmark Assessments (LinkIt Grades 6-8)

## Longitudinal Summary

LinkIt!

*Same grade, different students*

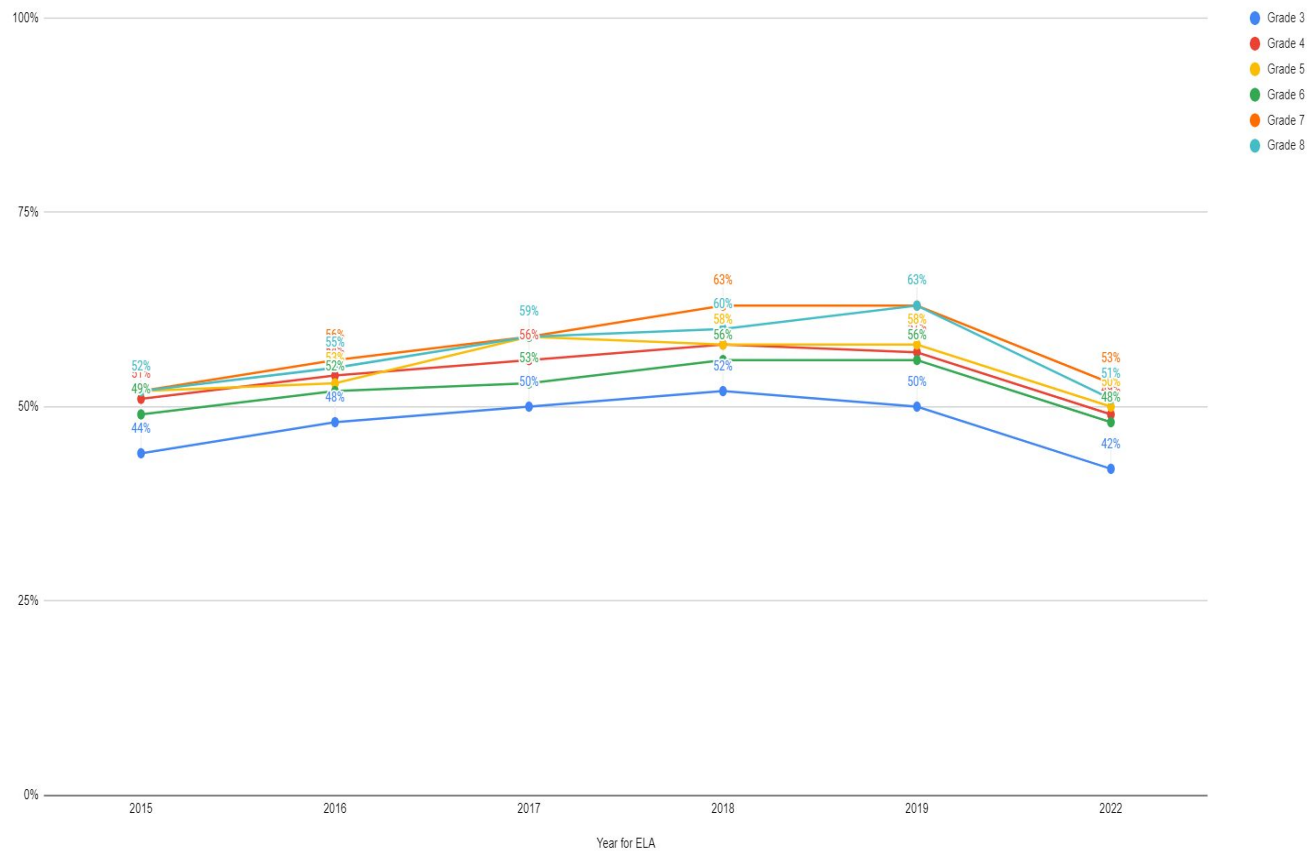
Edgar MS Annual Form C Comparison



1%

# ELA Results: Comparing 2019 to 2022 in NJ 2015-2022 NJSLA ELA NJ State Proficiency Levels

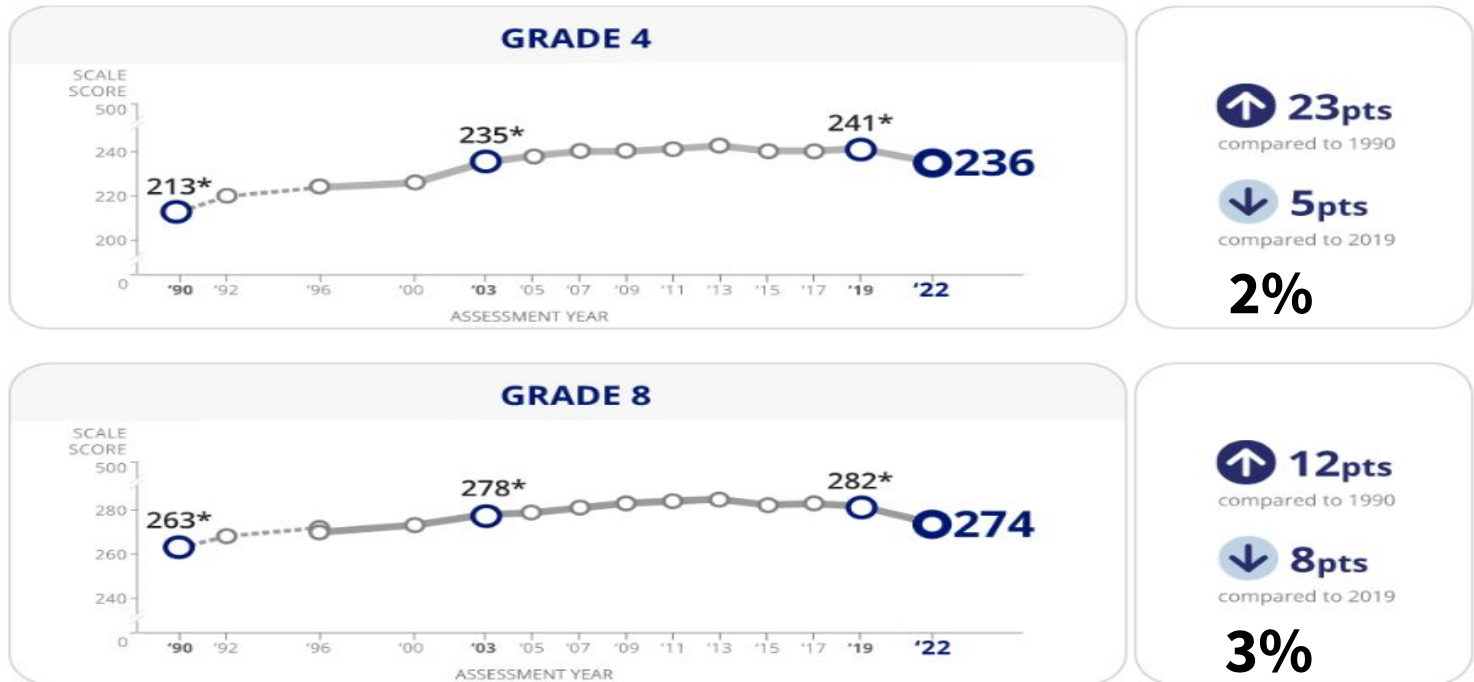
2015-2022 ELANJSLA Proficiency by Grade Level



**8.57%**

# Math Results: Comparing 2019 to 2022 in US NAEP Math Results 1990-2022

FIGURE | Trend in fourth- and eighth-grade mathematics average scores



----- Accommodations not permitted

———— Accommodations permitted

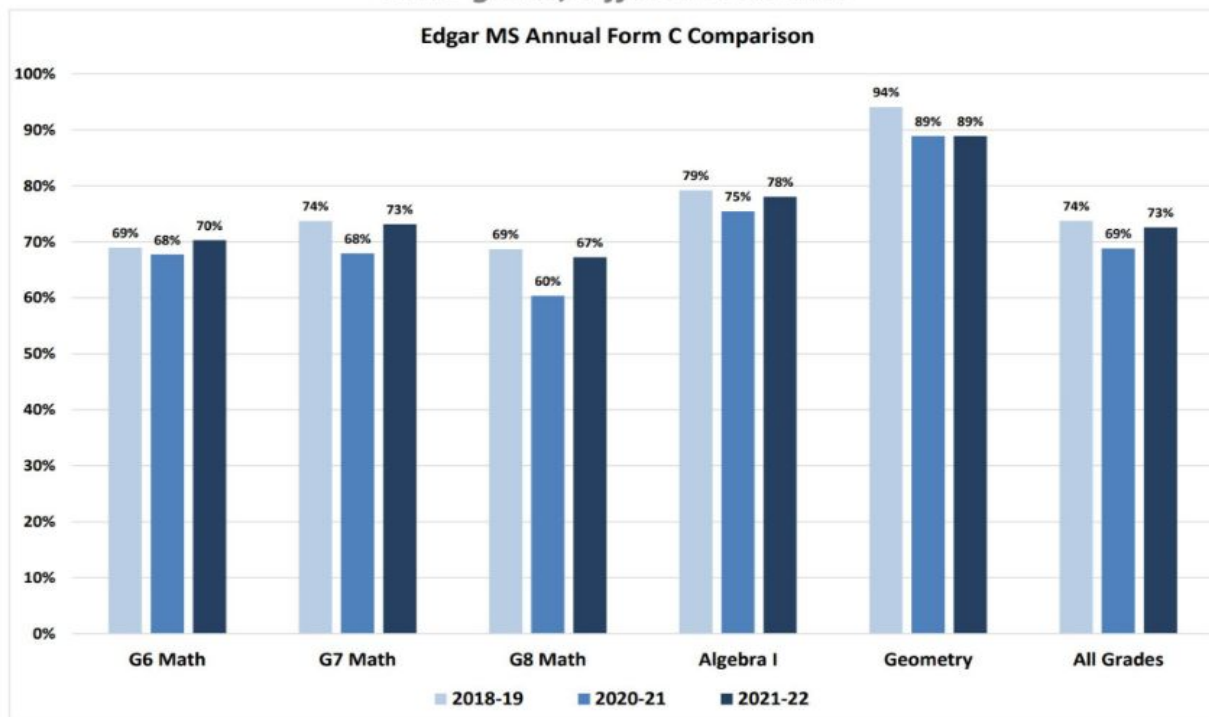
\* Significantly different ( $p < .05$ ) from 2022.

# Math Results: Comparing 2019 to 2022 in **Metuchen** Local Benchmark Assessments (**LinkIt** Grades 6-8)

## Longitudinal Summary

*Same grade, different students*

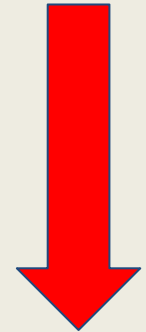
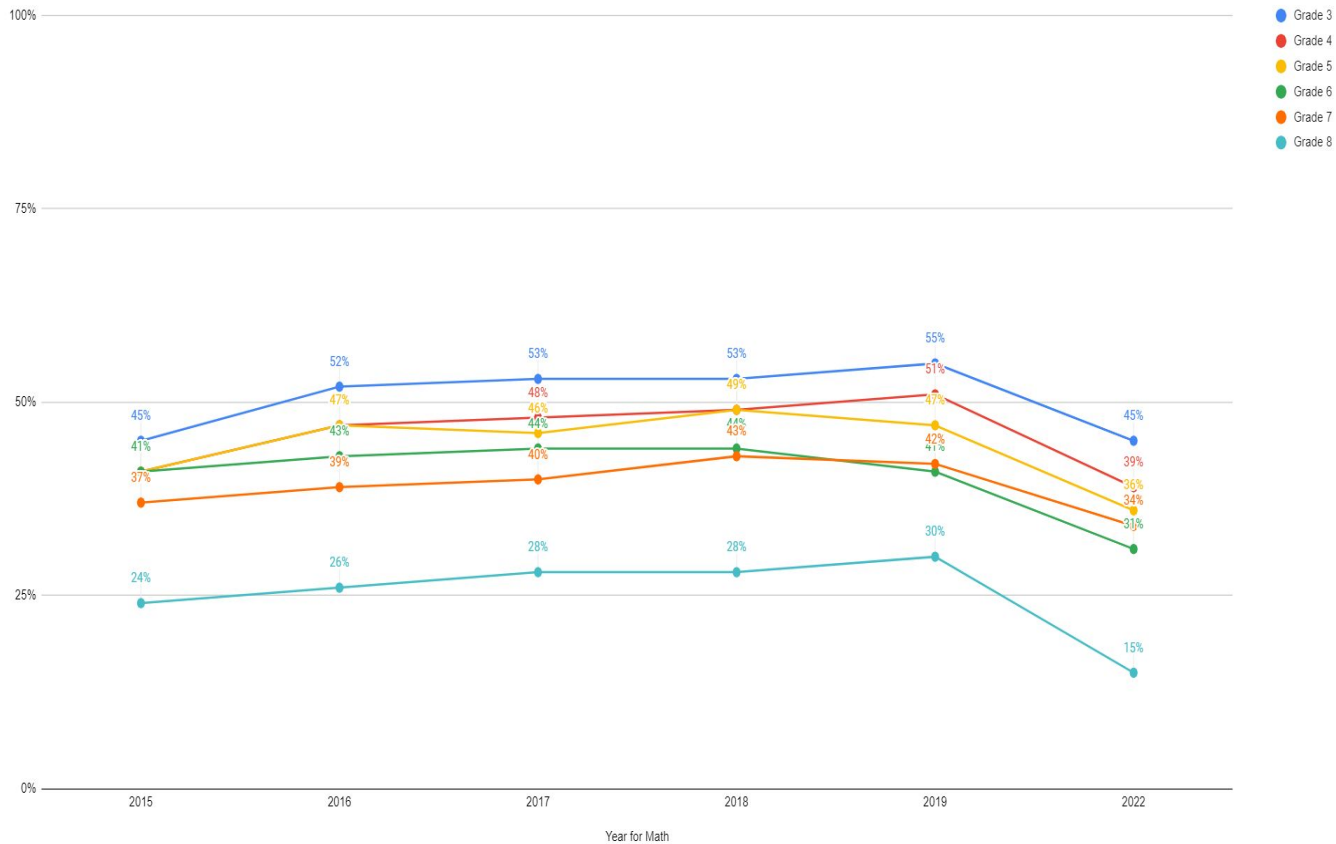
LinkIt



**1%**

# Math Results: Comparing 2019 to 2022 in NJ 2015-2022 NJSLA Math NJ State Proficiency Levels

2015-2022 Math NJSLA Proficiency by Grade Level



**11%**

# Differential between Metuchen and State ELA Proficiencies 2019 to 2022

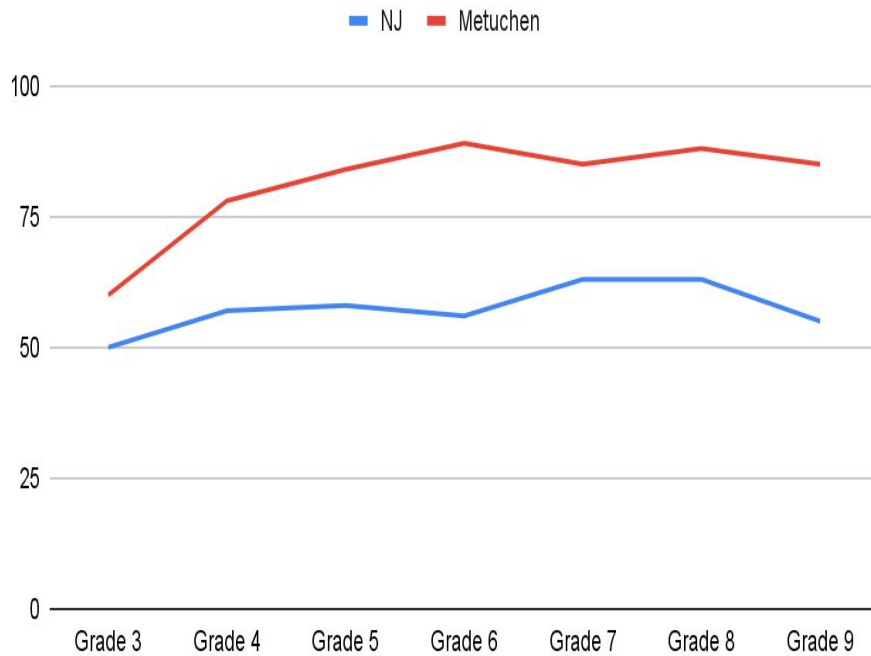
Grade	2019% Prof. State	2019% Prof. Metuchen	Differential	2022% Prof. State	2022% Prof. Metuchen	Differential
3 2022 n=166	50	60	10	42	57	15
4 2022 n=196	57	78	21	49	64	15
5 2022 n=164	58	84	26	50	71	21
6 2022 n=192	56	89	33	48	75	27
7 2022 n=181	63	85	22	53	70	17
8 2022 n=169	63	88	25	51	73	22
9 2022 n=168	55	85	30	49	89	40



# Differentials 2019 to 2022

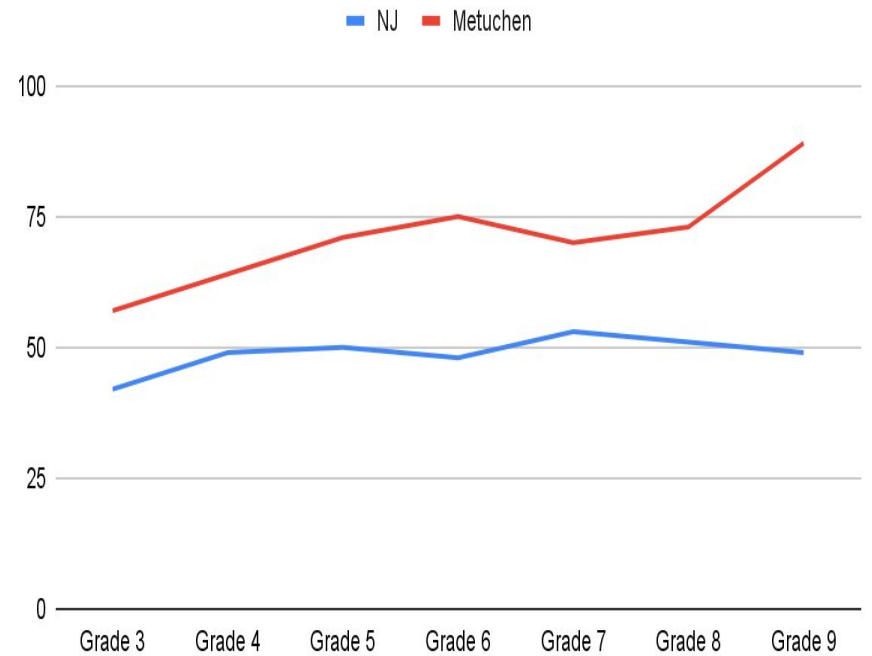
## NJSLA ELA: NJ compared to Metuchen (Grades 3-9)

2019 % Proficient ELA - NJ Compared to Metuchen



2019 NJSLA % Proficient English Language Arts

2022% Proficient ELA - NJ Compared to Metuchen



2022 NJSLA % Proficient English Language Arts

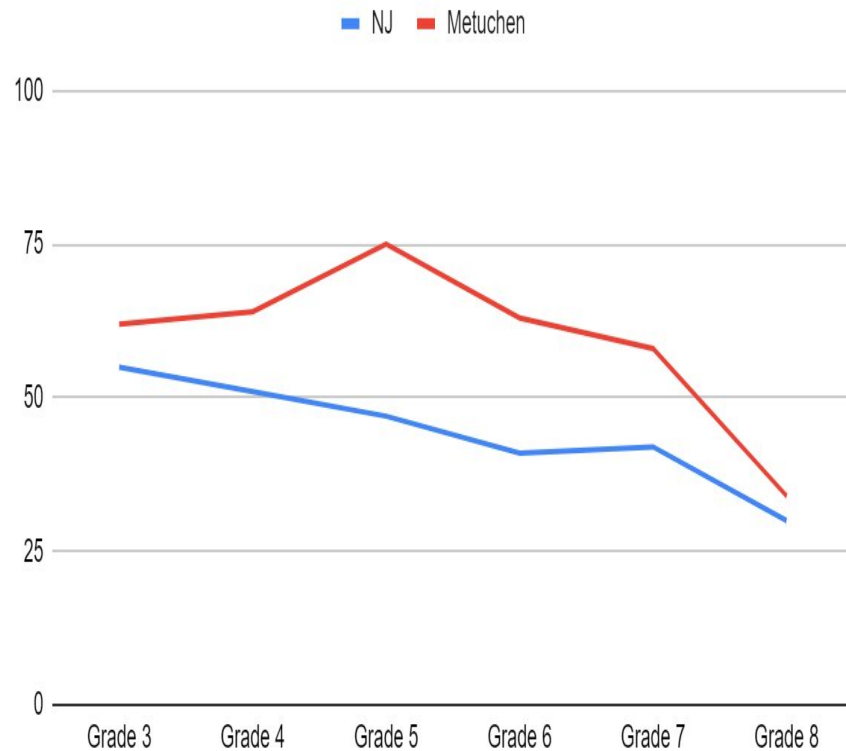
# Differential between Metuchen and State Math Proficiencies 2019 to 2022 Grades 3 - 8th

Grade	2019% Prof. State	2019% Prof. Metuchen	Differential	2022% Prof. State	2022% Prof. Metuchen	Differential
3 2022 n=167	55	62	7	45	64	19
4 2022 n=197	51	64	13	39	61	22
5 2022 n=165	47	75	28	36	59	23
6 2022 n=192	41	63	23	31	56	25
7 2022 n=159	42	58	16	34	58	24
8 2022 n=88	30	34	4	15	20	5
Alg EMS 2022 n=92	43	92	48	35	89	54
Geo EMS 2022 n=15	31	100	69	44	100	56

# Differentials 2019 to 2022

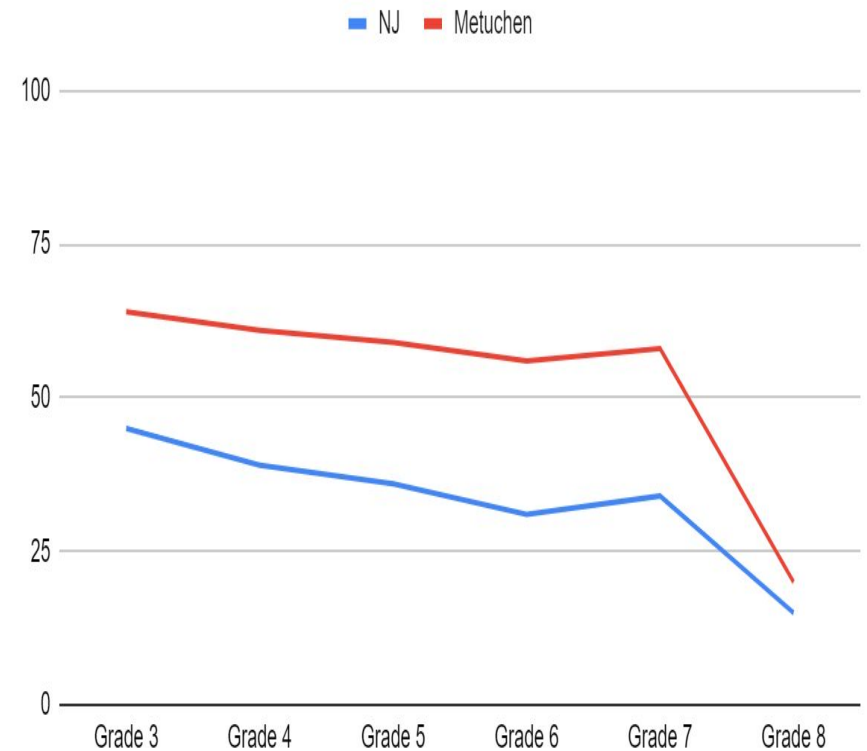
## NJSLA Math: NJ compared to Metuchen (Grades 3-9)

2019 % Proficient Math - NJ Compared to Metuchen



2019 NJSLA % Proficient Math

2022 % Proficient Math - NJ Compared to Metuchen



2022 State NJSLA % Proficient Math

# Differential between Metuchen and State Math Proficiencies 2019 to 2022 MHS Grade 9

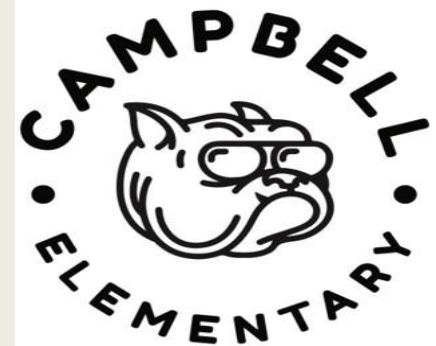
Grade	2019% Prof. State	2019% Prof. Metuchen	Differential	2022% Prof. State	2022% Prof. Metuchen	Differential
<b>Algebra I</b> 2022 n=79	43	24	<b>-19</b>	35	<b>35</b>	<b>0</b>
<b>Geometry</b> 2022 n=66	31	52	<b>21</b>	44	<b>67</b>	<b>23</b>
<b>Algebra II</b> 2022 n=21	46	73	<b>27</b>	53	<b>100</b>	<b>47</b>

# CAMPBELL ELEMENTARY SCHOOL

*A GREAT place to LEARN! A GREAT place to BELONG!*

Vincent, J. Costanza, Ed.D.  
Principal

Brooke Kirschner  
Assistant Principal



# Two-Year ELA Differential at CES

<b>Grade</b>	<b>2019% Prof. State</b>	<b>2019% Prof. Metuchen</b>	<b>Differential</b>	<b>2022% Prof. State</b>	<b>2022% Prof. Metuchen</b>	<b>Differential</b>
<b>3</b> 2022 n=166	50	60	<b>10</b>	42	<b>57</b>	<b>15</b>
<b>4</b> 2022 n=196	57	78	<b>21</b>	49	<b>64</b>	<b>15</b>

# Two-Year Math Differential at CES

<b>Grade</b>	<b>2019% Prof. State</b>	<b>2019% Prof. Metuchen</b>	<b>Differential</b>	<b>2022% Prof. State</b>	<b>2022% Prof. Metuchen</b>	<b>Differential</b>
<b>3</b> 2022 n=167	55	62	<b>7</b>	45	<b>64</b>	<b>19</b>
<b>4</b> 2022 n=197	51	64	<b>13</b>	39	<b>61</b>	<b>22</b>

# Continuous Improvement at CES

## 3rd & 4th Grade ELA Glows

### English Language Arts Evidence Statements Glows:

#### Grade 3:

- Compare and contrast the most important points and/ or key details presented in two texts on the same topic
- Provides explanation of how characters' actions contribute to the sequence of events

#### Grade 4:

- Ability to determine meaning of words and phrases as they are used in text
- Simile and metaphor
- Describe a setting or event with character thoughts, words, actions



# Continuous Improvement at CES

## 3rd & 4th Grade Math Glows

### Math Evidence Statements Glows

#### Grade 3:

- Multiplication: word problems equal groups, arrays, or area
- Division: interpret whole number quotients as the number of each objects in each share
- Measurement & Data: recognize area

#### Grade 4:

- One step word problems add/subtract
- Reading and writing multi-digit whole numbers
- Add/subtract multi-digit

# Continuous Improvement at CES

## 3rd & 4th Grade Grade ELA Grows

English Language Arts Evidence Statements Grows:

Grade 3:

- Literary Analysis
- Vocabulary within informational text

Grade 4:

- Integrate information from two texts
- Interpret information presented visually
- Interpretation of information presented orally
- Main idea is supported by key details

# Continuous Improvement at CES

## 3rd & 4th Grade Grade Math Grows

### Math Evidence Statements Grows:

#### Grade 3:

- Explain the equivalence of fractions & compare them by reasoning about their size
- Determine the unknown whole number in a multiplication or division equation
- Base explanations/reasoning on the properties of operations

#### Grade 4:

- Denominator 10 to denominator 100
- Number/shape pattern rules
- Comparing fractions with different denominators or numerators - benchmark fractions

# Edgar Middle School



Suzy Azevedo  
Principal

Neyda Evans  
Assistant  
Principal



# Differential between EMS and State ELA Proficiencies 2019 to 2022

<b>Grade</b>	<b>2019% Prof. State</b>	<b>2019% Prof. Metuchen</b>	<b>Differential</b>	<b>2022% Prof. State</b>	<b>2022% Prof. Metuchen</b>	<b>Differential</b>
<b>5</b> n=164	<b>58</b>	<b>84</b>	<b>26</b>	<b>50</b>	<b>71</b>	<b>21</b>
<b>6</b> n=192	<b>56</b>	<b>89</b>	<b>33</b>	<b>48</b>	<b>75</b>	<b>27</b>
<b>7</b> n=181	<b>63</b>	<b>85</b>	<b>22</b>	<b>53</b>	<b>70</b>	<b>17</b>
<b>8</b> n=169	<b>63</b>	<b>88</b>	<b>25</b>	<b>51</b>	<b>73</b>	<b>22</b>



# ELA Evidence Statement Glows

- Grade 5
  - Provide an answer that draws on information from multi print or digital sources.
  - Integrates information from several texts on the same topic.
- Grade 6
  - Analyze the author's purpose
  - Acquire and use accurately grade-appropriate vocabulary
- Grade 7
  - Determine the central ideas or conclusions of a text
  - Analyze how a drama's or poem's structure contributes to its meaning.
- Grade 8
  - Analysis of relationship between primary and secondary source
  - Determine central idea over the course of text



# ELA Evidence Statement Grows

- Grade 5
  - Provide a comparison and contrast of two or more characters in a story or drama, drawing on specific details in the text.
- Grade 6
  - Determine the central ideas or information of a primary or secondary source.
- Grade 7
  - Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.
- Grade 8
  - Compare and contrast the structure of two or more texts and analyze how the differing structure of each text contributes to its meaning and style.



# ELA Strategies for Success

- Data Dive Sessions
  - Previous/current year's data reviewed
- Guided/Strategy Reading Groups
- LLI Program
- Infusion of more inquiry based instruction and research in ELA and Social Studies.
  - More student voice and choice into their learning
- Reading Writing Workshop
- RTI in all grade levels
- Continue working with Literary Consultant
- Small group instruction through the Workshop Model





# Differential between EMS and State Math Proficiencies 2019 to 2022

Grade	2019% Prof. State	2019% Prof. Metuchen	Differential	2022% Prof. State	2022% Prof. Metuchen	Differential
5 2022 n=165	47	75	28	36	59	23
6 2022 n=192	41	63	23	31	56	25
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Alg EMS 2022 n=92	43	92	48	35	89	54
Geo EMS 2022 n=15	31	100	69	44	100	56



# Math Evidence Statement Glows

- Grade 5
  - Multiplication with fractions
  - Ordered pairs and coordinate planes
- Grade 6
  - Understanding statistics & Probability
  - Understand solving an equation
- Grade 7
  - Explains the relationship between the four operations
  - Compute unit rates associated with ratios of fractions



# Math Evidence Statement Glows

- Grade 8
  - Use scientific notation
  - Graphing functions
- Algebra 1
  - Understands equivalent expression
  - Summarize and interpret data
- Geometry
  - Similarity and transformations (100% correct)
  - Understand trigonometric ratios (100% Correct)
-



# Math Evidence Statement Grows

- Grade 5
  - Find quotients based on place value, the properties of operations.
- Grade 6
  - Use reasonable estimates of known quantities in a chain of reasoning.
- Grade 7
  - Find probabilities of compound events
- Grade 8
  - Understand that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually
- Algebra
  - Relate the domain of a function to a graph and to the quantitative relationship it describes.
- Geometry
  - Construct chains of reasoning that will justify or refute geometric propositions or conjectures.



# Math Strategies for Success

- Real world problem solving strategies embedded into lessons
- IXL of prerequisite skills
- iReady weekly work
- Ensure Workshop Model fidelity
  - Lesson Plan review
  - Observations
- Full integration of real-world problem-solving
  - STEM projects
  - Integration into instruction



# Math Strategies for Success

- Data Dive Sessions
  - November, January, Spring
  - Use of Benchmarks and state test results to Target Student Support
  - Identify specific standards and groupings for improvement, both individually and collectively as appropriate.
- Use technology to support increased small group instruction within the Workshop Model.
- Individual Interventions: RTI - all grade levels
- Teacher support - PD, coaching, peer sharing, articulation

# Metuchen High School

**Edward C. Porowski,  
Principal**

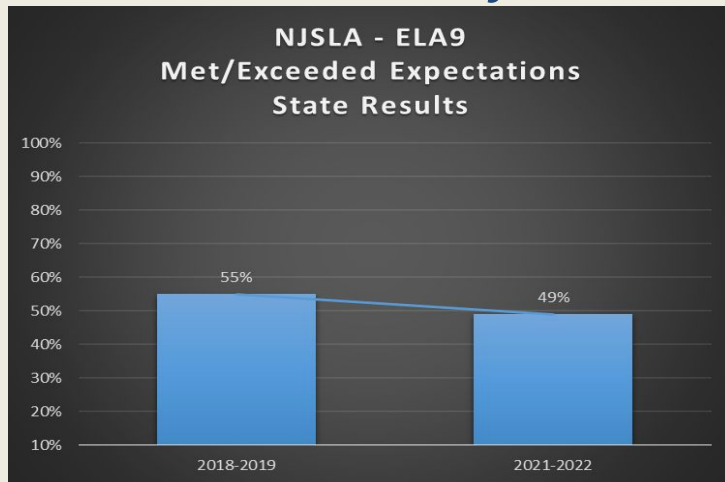
**Brian Stike,  
Assistant Principal**





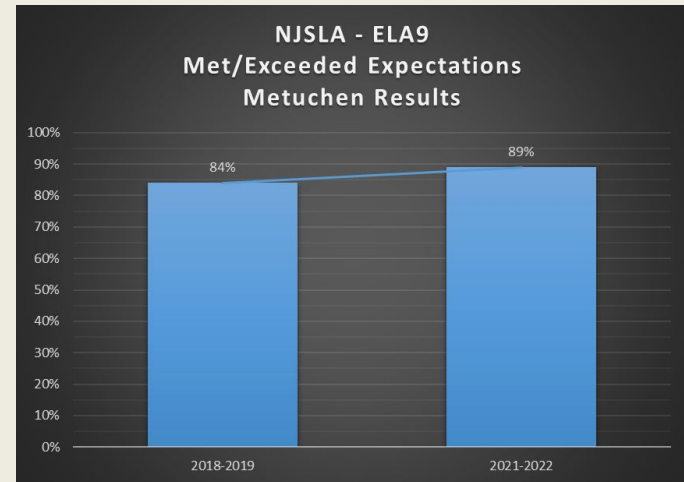
# English Language Arts Grade 9

## State Proficiency Rates



→ State Decrease 6%

## Metuchen Proficiency Rates



★ Metuchen Increase 4%

Increase in differential between New Jersey & Metuchen Proficiency scores.

2019	30%
2022	40%





# GLOWS: English Language Arts Grade 9

## Reason to Celebrate

All areas assessed on the assessment reflect student strength in understanding content.

## Areas of Strength

### Reading Literature

- Theme
- Text Evidence
- Complex Character Analysis

### Reading Informational Text

- Analysis of Events and Connections Drawn
- Analysis of Author's Claims
- Analysis of Author's Purpose
- Analysis of U.S. Documents of Historical & Literary Significance.

### Writing

- Research Simulation

*Shift to Strength in Reading Informational Text*



# GROWS: English Language Arts Grade 9

*Note: All areas assessed reflected higher performance than the state. While both of these categories reflect strong performance, these are the areas that can be a focus for more instruction.*

## Targeting Areas for Growth

### Language

- Use of context clues for developing meaning of vocabulary ([LINK](#))

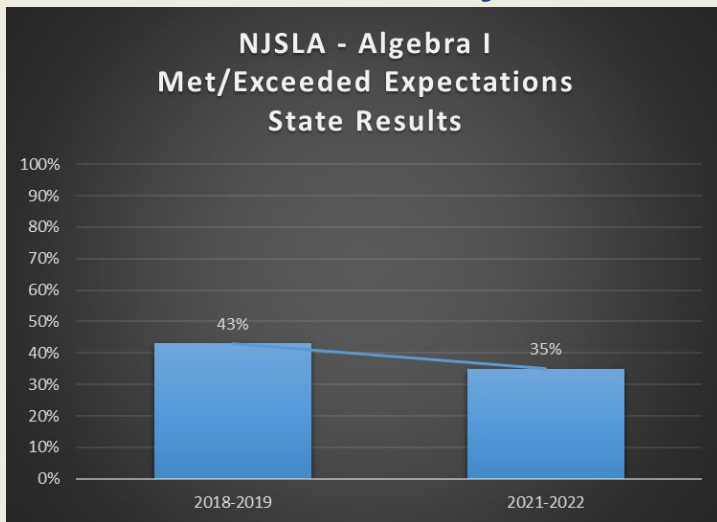
### Writing

- Narrative Writing



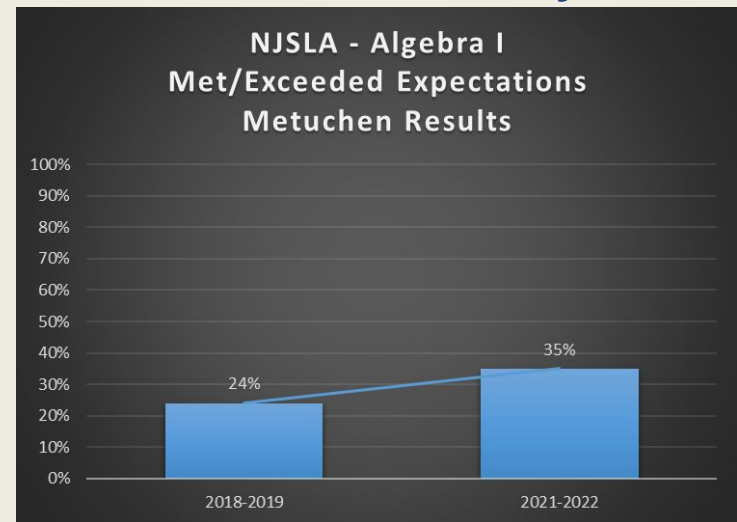
# Algebra I

## State Proficiency Rates



→ State decrease 8%

## Metuchen Proficiency Rates



★ Metuchen Increase 11%

Increase in differential between New Jersey & Metuchen Proficiency scores.

2019	-19%
2022	0%



# GLOWS & GROWS: Algebra I

## Reason to Celebrate

In comparison to 2019, the student scores increased.

Strengths in:

- ❑ Understanding the graph of an equation and the plotting on a coordinate plane
- ❑ Graphing linear functions and showing intercepts
- ❑ Interpreting exponential expressions

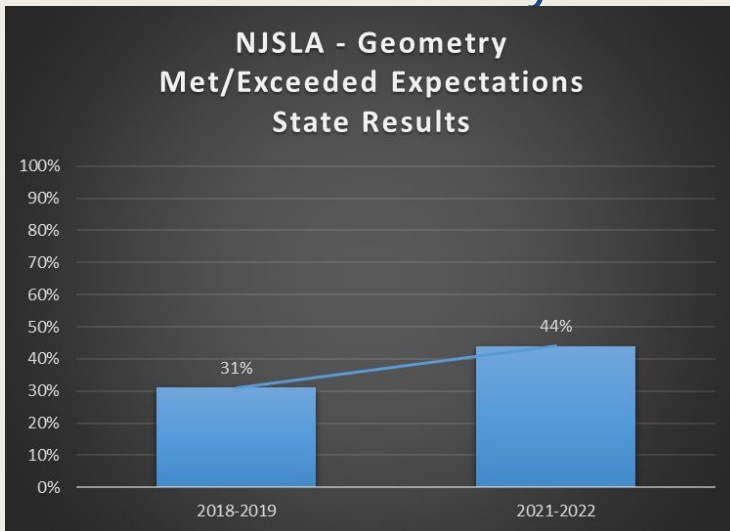
## Targeting Areas for Growth

- ❑ Solving linear equations and inequalities ([LINK](#))
- ❑ Solving quadratic equations in one variable ([LINK](#))
- ❑ Constructing linear and exponential functions ([LINK](#))
- ❑ Rearranging formulas that are quadratic in the quantity of interest ([LINK](#))



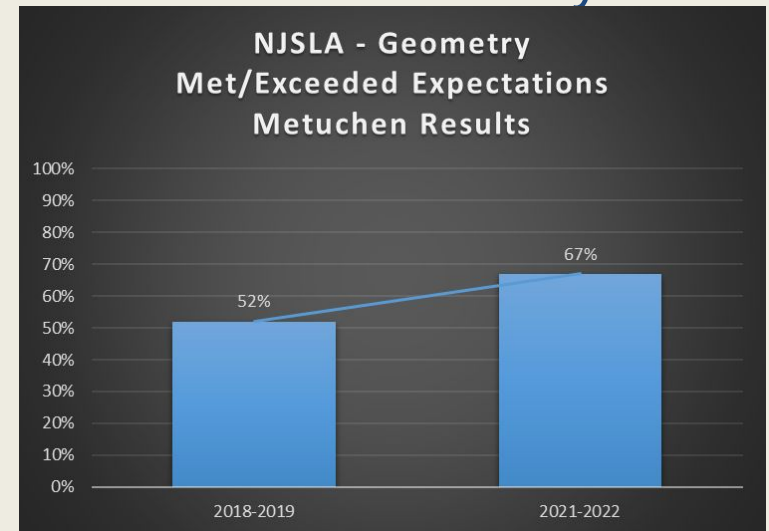
# Geometry

## State Proficiency Rates



→ State Increase 13%

## Metuchen Proficiency Rates



★ Metuchen Increase 15%

Increase in differential between New Jersey & Metuchen Proficiency scores.

2019	11%
2022	23%



# GLOWS & GROWS: Geometry

## Reason to Celebrate

Students met or exceeded expectations in the majority of performance standards.

Strengths in:

- Multi-step problems
- Geometric reasoning in a coordinate setting
- Verify properties of dilations
- Rotations, reflections, & translations
- Proving theorems.
- Geometric descriptions of rigid motions to transform figures
- Properties of triangles
- Points on a line segment in a given ratio

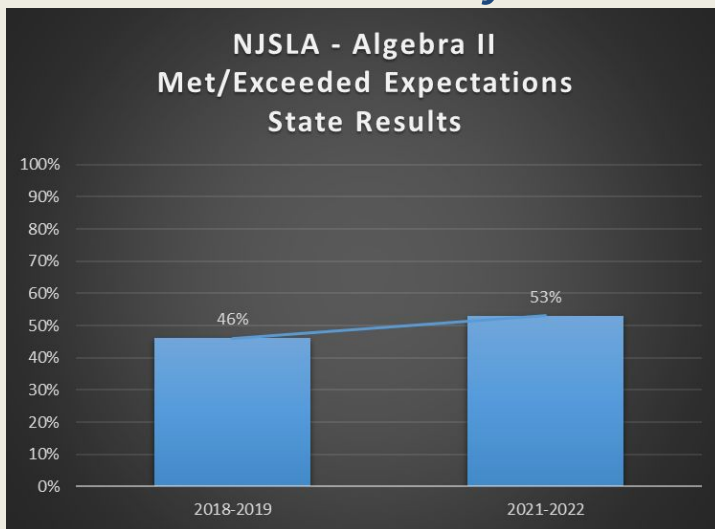
## Targeting Areas of Growth

- Derivation of the equation of a circle of given center and radius using the Pythagorean Theorem. ([LINK](#))
- Identify and describe relationships among inscribed angles, radii, and chords to apply in problem-solving situations. ([LINK](#))
- Find arc lengths and areas of sectors of circles. ([LINK](#))



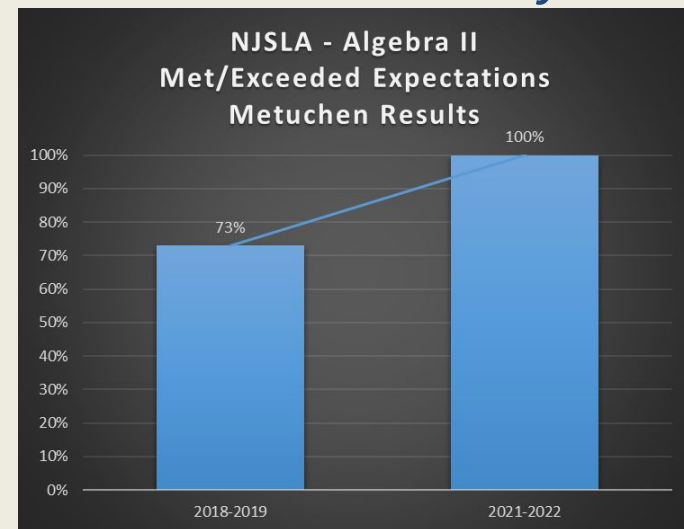
# Algebra II

## State Proficiency Rates



→ State Increase 7%

## Metuchen Proficiency Rates



★ Metuchen Increase 27%

Increase in differential between New Jersey & Metuchen Proficiency scores.

2019	27%
2022	47%



# GLOWS & GROWS: Algebra II

## Reason to Celebrate

All students met the proficiency requirements!  
Strengths include:

- ❑ Calculating/interpreting rate of change with polynomial, exponential, logarithmic, and trigonometric functions
- ❑ Rewriting simple rational expressions in different forms
- ❑ Solving problems using modeling
- ❑ Writing arithmetic and geometric sequences both recursively and with an explicit formula
- ❑ Rewriting expressions involving radicals and rational exponents using the properties of exponents

## Targeting Areas for Growth

- ❑ Solving complex, multi-step contextual word problems ([LINK](#))
- ❑ Solving quadratic equations in one variable ([LINK](#))



# RESPONDING TO THE DATA

- ❑ Use of state and local assessment data to drive planning for instruction.
- ❑ Differentiate instruction using data results and implementation of the workshop model.
- ❑ Data Dives - data driven conversation to focus on power standards.
- ❑ Alignment of assessments to state assessment standards.

FOCAL POINT:  
ALGEBRA I

Goals and tasks  
established to  
support student  
learning and growth



# RESPONDING TO THE DATA

- ❑ Collaboration on design and implementation of exemplar lessons.
- ❑ Purchase and instruction on the use of math manipulatives ([Algebra tiles](#)) to aid in concrete understanding of abstract concepts.
- ❑ Instruction on assessment accommodations and how to teach students to use those accommodations on state assessments.
- ❑ NEXT STEP: Triangulation of the NJSLA Data with LinkIt Benchmark Data & Start Strong Assessment Data

## FOCAL POINT: ALGEBRA I

Goals and tasks established to support student learning and growth



# NJSLA Sub-group Data

## District -wide (Grades 3-9) ELA and Math

<b>Grade</b>	<b>Sub Group</b>	<b>Passing Percentage</b>		<b>Grade</b>	<b>Sub Group</b>	<b>Passing Percentage</b>
ELA	Latino/Hispanic	<b>63</b>		Math	Latino/Hispanic	<b>39</b>
ELA	Asian	<b>86</b>		Math	Asian	<b>76</b>
ELA	Black	<b>45</b>		Math	Black	<b>31</b>
ELA	White	<b>68</b>		Math	White	<b>57</b>
ELA	Two or More Races	<b>77</b>		Math	Two or More Races	<b>63</b>
ELA	Spec. Ed.	<b>32</b>		Math	Spec. Ed.	<b>26</b>
ELA	Economic Disadvantage	<b>41</b>		Math	Economic Disadvantage	<b>19</b>
ELA	504	<b>64</b>		Math	504	<b>45</b>

# Dynamic Learning Map (DLM) Alternate Assessment

Grades: 3-8, 11

Subjects: ELA, Math, & Science

Online and Adaptive

5 Students participated

## Participation Criteria:

- Significant cognitive disability
- Primary instruction based on modified content standards
  - (DLM Essential Elements)
- Requires extensive individualized instruction and substantially adapted materials to achieve measurable gains in the grade-and age-appropriate curriculum.
- Emerging, Approaching the Target, At Target and Advanced

# **ACCESS Testing Results**

*Spring 2022*

# Terminology

- **English as a Second language (ESL)**-Refers to our type of instructional delivery. Not a label for a student.
- **English Language Learner (ELL)**- Refers to student
  - Asset Based Labels
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# Emerging Bilinguals Across the District

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1	3	9	9
2	1	5	6
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4	5	8	6
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6	1	1	6

Grade	Sp 21'	Sp 22'	Fal l 22'
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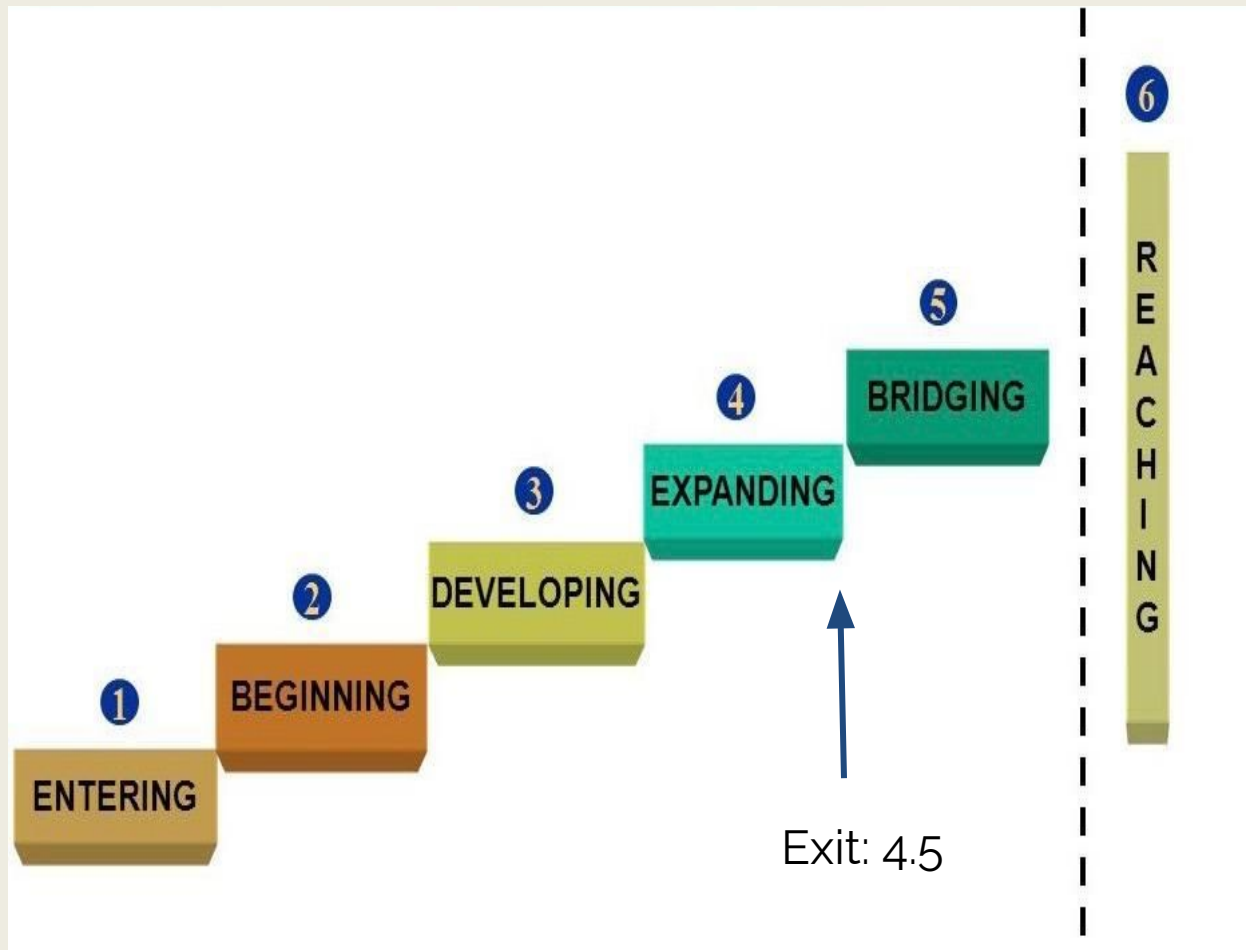
# Participation Rate

100%\*

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# Interpreting the Data



# Score Distribution

<b>Composite Score</b>	<b># of students</b>	<b>% of Assessed</b>
1-1.9	6	13.6%
2-2.9	10	22.7%
3-3.9	15	34.1%
4-4.4	5	11.4%
>4.5	8	18.2%

# Interventions and Supports

- Double Block of ESL at Moss, EMS and MHS
- Creation of ELL Profiles
  - Background information
  - Can Do descriptors to guide instruction
  - Recommended Accommodations
- Ongoing professional development for ELL teacher
  - Focused on utilizing ACCESS data to drive instruction
- Trained 4 teachers in Sheltered Instruction Observation Protocols
  - Scheduled ELL students intentionally with trained staff members
- Trained administrators and school counselors
- Ongoing built in consultation with the ESL Teacher
- Ongoing content area teacher coaching with a Title III Consultant in SIOP strategies at CES
- Continuing to offer 10 hour SIOP Course for teachers to support ELLs in classroom
- ESSER Tutoring

thank you