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# Methacton Student Achievement Report

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March 2024

Dr. Ché Regina  
Assistant Superintendent





# Agenda

- 2022-2023 end of year assessment data
- Variables and observations from 2022-2023
- Adjustments made for the 2023-2024 school year
- Recommendations for 2024-2025 school year

# **2018-2023 PSSA and Keystone Data**

# Pennsylvania System of School Assessment (PSSA) Information



- Subject Areas
  - English Language Arts (ELA)
  - Mathematics
  - Science
- ELA and Math are given to all students in 3<sup>rd</sup> through 8<sup>th</sup> grades
- Science only given to students in 4<sup>th</sup> and 8<sup>th</sup> grades
- Exams assess proficiency of the Pennsylvania State Standards
- All percentages in PSSA data slides represent proficient and advanced scores

## Grade 3 (2018-2023 results)

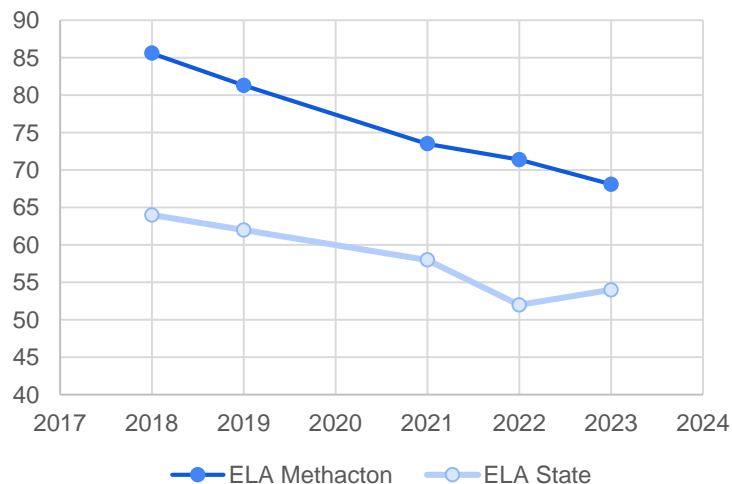


Year	ELA Methacton	ELA State	Mathematics Methacton	Mathematics State
2018	85.6	64	76.6	54
2019	81.3	62	75.3	56
2021	73.5	58	62.5	47
2022	71.4	52	66.0	47
2023	68.1	54	68.4	52

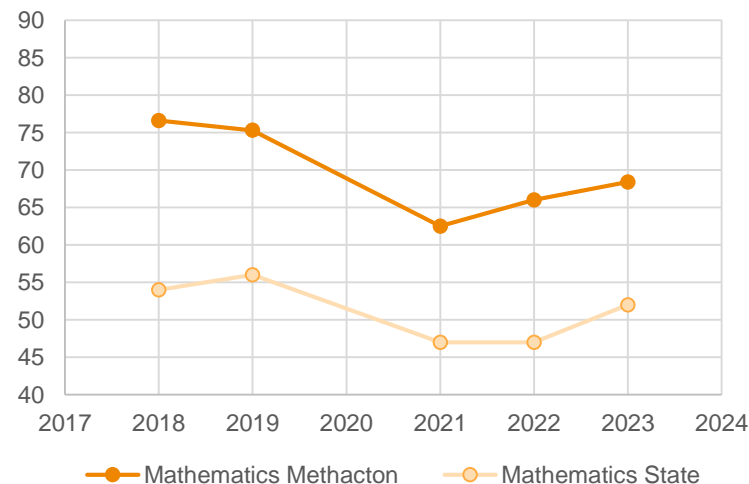
# Grade 3 (2018-2023 results)



ELA



Math



## Grade 4 (2018-2023 results)

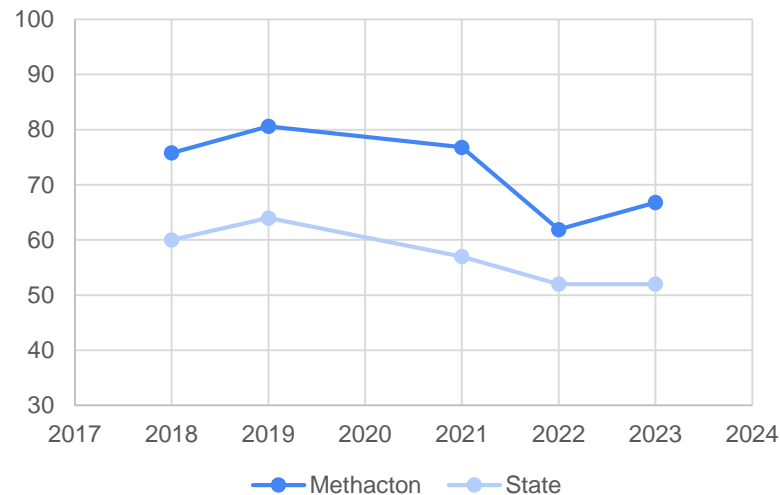


Year	ELA Methacton	ELA State	Mathematics Methacton	Mathematics State	Science Methacton	Science State
2018	75.8	60	63.5	44	90.1	76
2019	80.6	64	71.1	46	92.3	78
2021	76.8	57	53.2	36	90.0	76
2022	61.9	52	62.7	42	88.9	74
2023	66.8	52	68.4	52	88.2	74

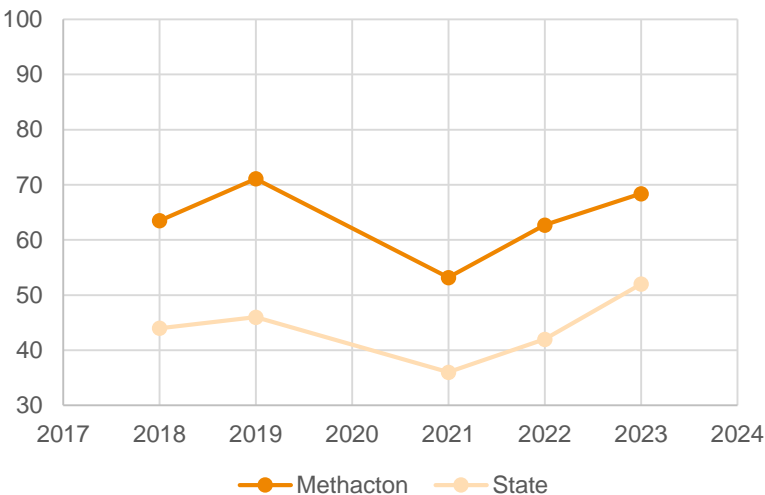
# Grade 4 (2018-2023 results)



ELA

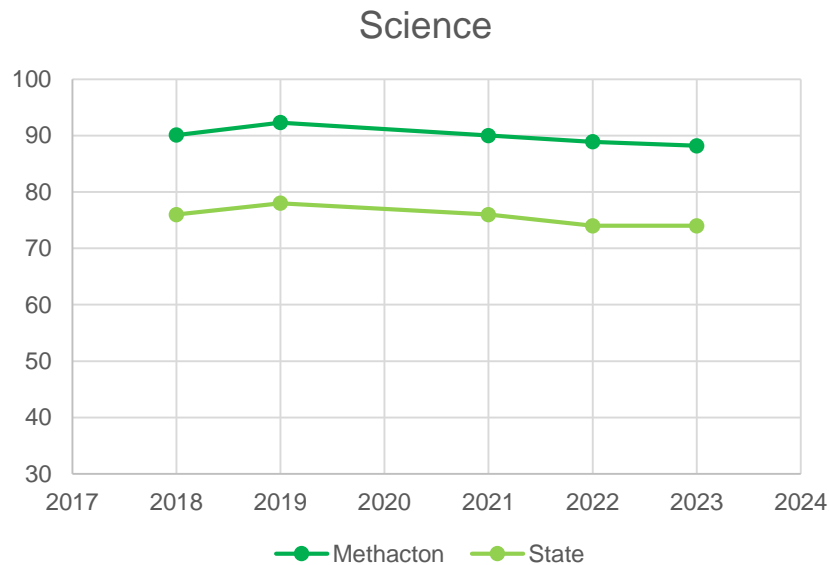


Math





# Grade 4 (2018-2023 results)



# Grade 5 (2018-2023 results)

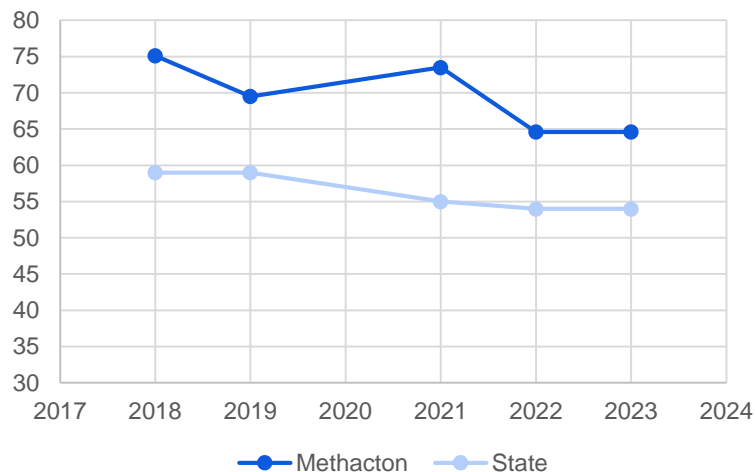


Year	ELA Methacton	ELA State	Mathematics Methacton	Mathematics State
2018	75.1	59	54.5	45
2019	69.5	59	53.1	43
2021	73.5	55	45	36
2022	64.6	54	40.6	35
2023	64.6	54	58.8	43

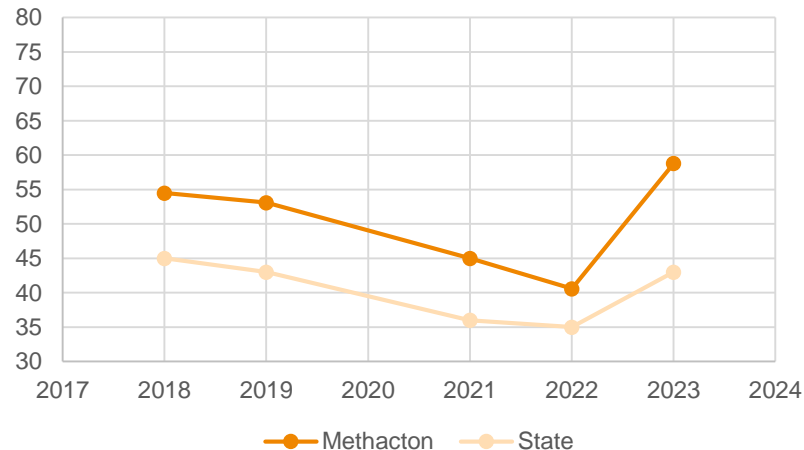
# Grade 5 (2018-2023 results)



ELA



Math



## Grade 6 (2018-2023 results)

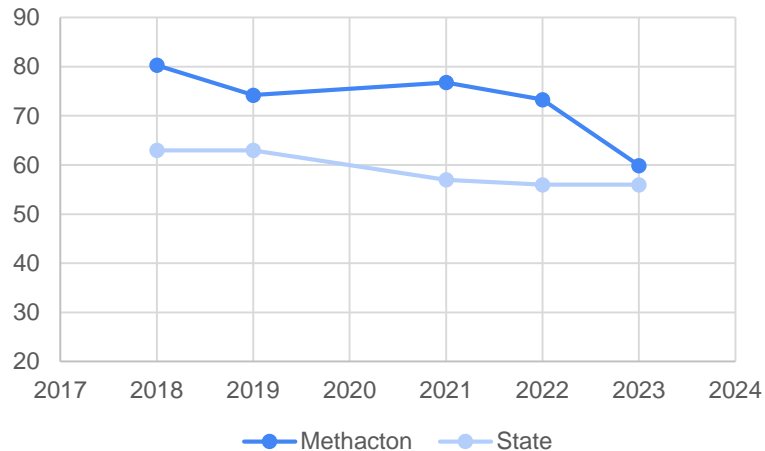


Year	ELA Methacton	ELA State	Mathematics Methacton	Mathematics State
2018	80.3	63	60.1	40
2019	74.2	63	58.1	39
2021	76.8	57	38.2	28
2022	73.3	56	48.8	32
2023	59.9	56	53.9	37

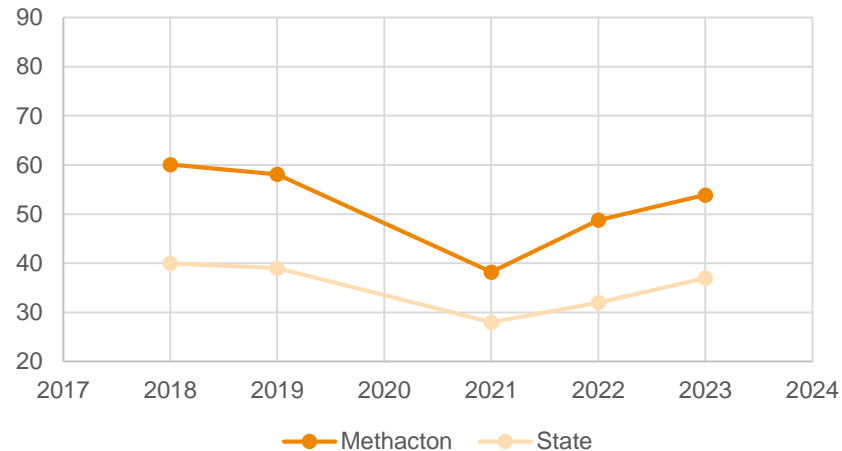
# Grade 6 (2018-2023 results)



ELA



Math



# Grade 7 (2018-2023 results)

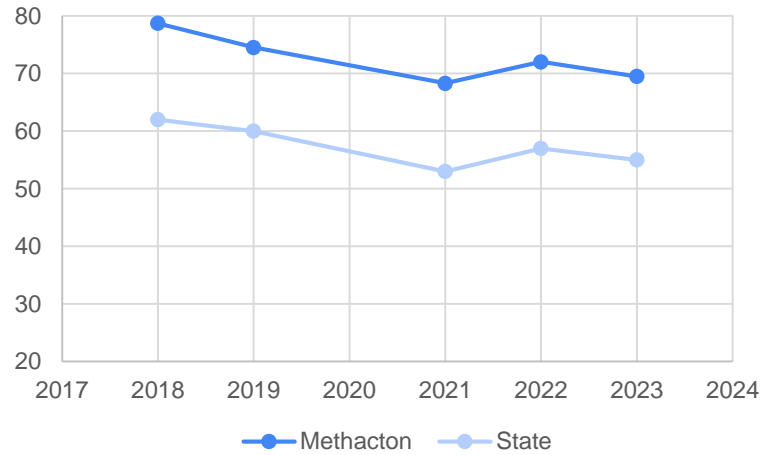


Year	ELA Methacton	ELA State	Mathematics Methacton	Mathematics State
2018	78.7	62	57.3	39
2019	74.5	60	63.8	38
2021	68.3	53	38.5	27
2022	72	57	40.8	27
2023	69.5	55	46.8	33

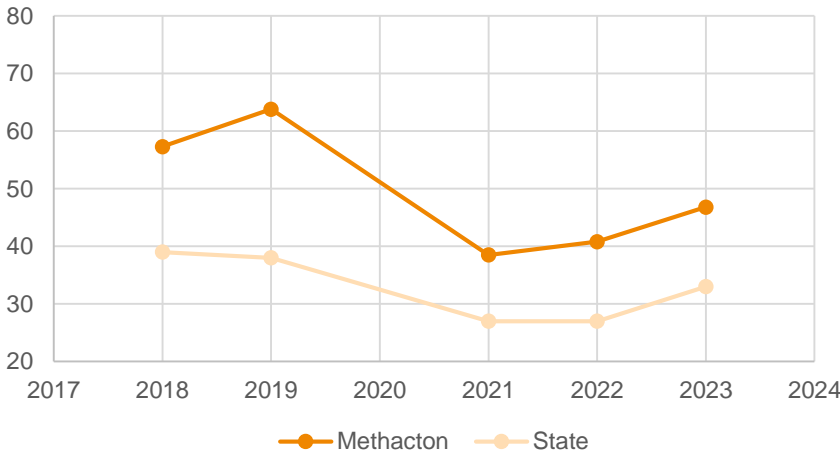
# Grade 7 (2018-2023 results)



ELA



Math



# Grade 8 (2018-2023 results)



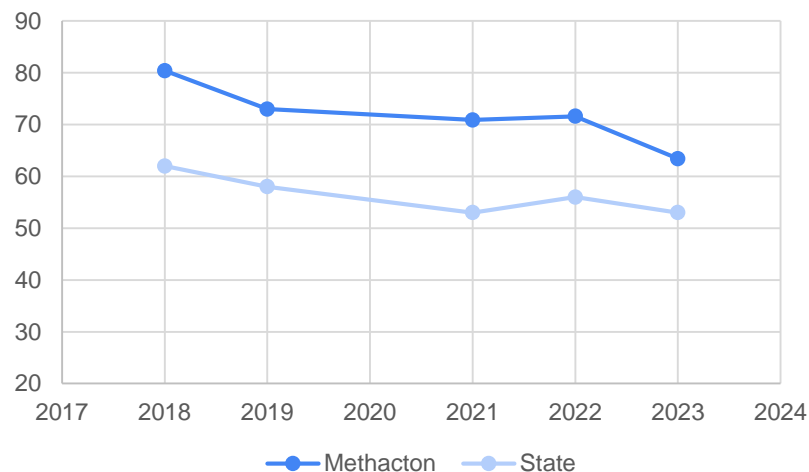
Year	ELA Methacton	ELA State	Mathematics Methacton	Mathematics State	Science Methacton	Science State
2018	80.4	62	48	31	76.8	54
2019	73	58	49	32	80.3	58
2021	70.9	53	32.8	22	68.6	51
2022	71.6	56	32.1	23	72.3	51
2023	63.4	53	35	26	76.2	57



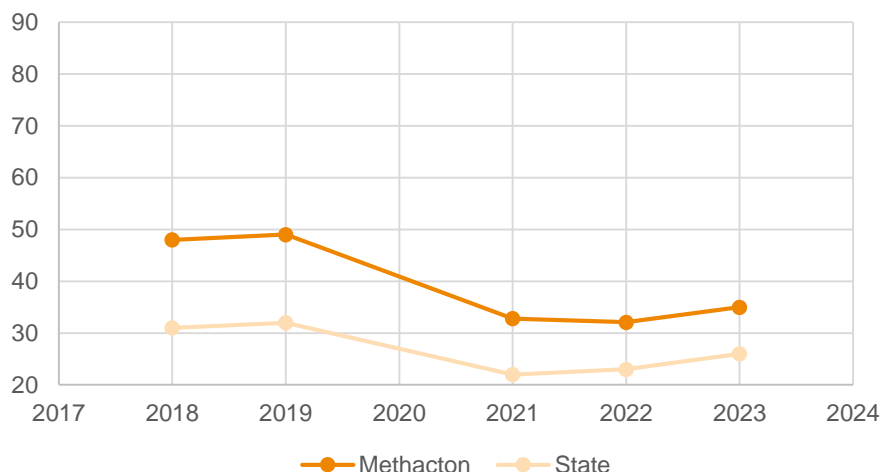
# Grade 8 (2018-2023 results)



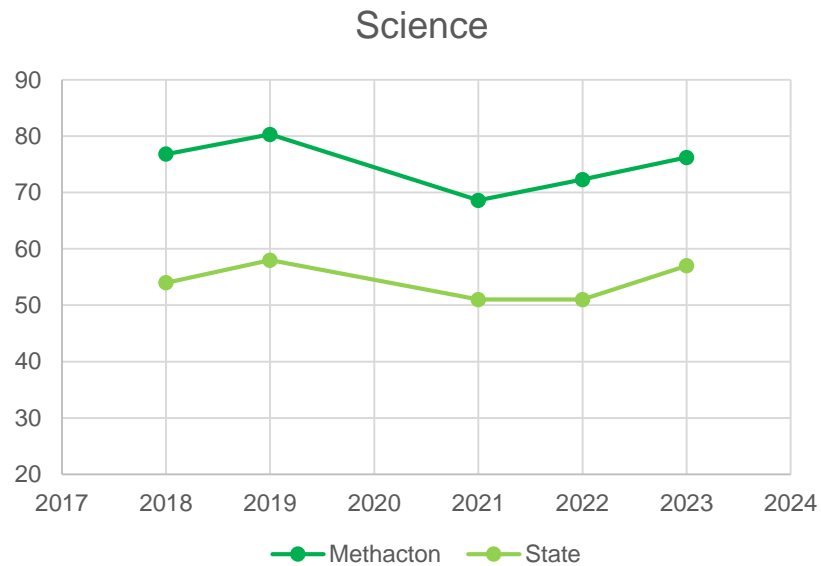
ELA



Math



# Grade 8 (2018-2023 results)



# Keystone Information



- Keystone Exams are the high school version of the PSSAs
- Subject area specific and only taken at the end of the specific courses
  - ELA exam is taken at the end of 10<sup>th</sup> grade Literature
  - Math exam is taken at the end of Algebra I
  - Science exam is taken at the end of Biology
- Exams can be taken more than once in subsequent years if a student is unsuccessful in previous attempts
- All percentages in the Keystone data slide represent proficient and advanced scores
- School scoring percentages are attributed to the students in their 11<sup>th</sup> grade year (known as “banking scores”)

# Building Background: Keystone Exams

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11
							Literature (all)	Literature (retakes & new students)
						Biology (some)	Biology (majority)	Biology (some, retakes & new students)
				Algebra 1 (few)	Algebra 1 (many)	Algebra 1 (many & retakes)	Algebra 1 (few & retakes)	Algebra 1 (retakes & new students)

- Keystone exams are given at the end of the course
- Students' "best" score is banked until 11th grade
- Algebra 1 exam is typically given in grade 8 or 9
- Biology and Literature exams are typically given in grade 10

# Keystone 5 Year Comparison: Methacton & the State

Literature		
Year	Methacton	State
2017-2018	86.5	72.7
2018-2019	85.9	71.5
2020-2021	-	-
2021-2022	79.3	64.9
2022-2023	75.2	65.3

Biology		
Year	Methacton	State
2017-2018	83	64.4
2018-2019	84.9	63.2
2020-2021	92.3	67.6
2021-2022	59.9	41.9
2022-2023	73	50.7

Algebra I		
Year	Methacton	State
2017-2018	84.7	65.2
2018-2019	84.4	63.3
2020-2021	81.6	62.4
2021-2022	83.7	63.9
2022-2023	35.9	34.2

\*excludes 2019-2020 – PDE did not report scores this year

**Banked Pandemic Scoring Effect** - Major drop in scores in the highlighted specific years above is due to scores not being counted for the following:

- *Literature (2021)* - all students in 10<sup>th</sup> grade during 2019-2020
- *Biology (2022)* – students who accelerated to Bio in 9<sup>th</sup> grade during 2019-2020
- *Algebra (2023)* – students who accelerated to Alg I in 8<sup>th</sup> grade during 2019-2020



## Changes in 2022-2023 SY

- Implemented inclusive practices (K-4)
- Arrowhead opened new building
- District implemented full-day Kindergarten
- Hired 47 new teachers
- Math Coaches were added at each level (K-12)
- Increase in number of Math Specialists mid-year (K-6)

# Data Observations for 2022-23 SY



- ELA has declined in all grade levels except for 4<sup>th</sup> across the district
- Math scores have yet to rebound to pre-pandemic levels with the exception of 4<sup>th</sup> and 5<sup>th</sup> grade
- One elementary school's 3<sup>rd</sup> grade scored #1 in ELA and #2 in Math across the 29 elementary schools in the North Montco sending districts
- One elementary school's 4<sup>th</sup> grade cohort growth was 10% in ELA and 19% in Math
- Increase in PSSA achievement in Math in all grades (3-8)

**Standard Achievement Tests (SAT)**

**American College Testing (ACT)**

**Advanced Placement (AP)**



# Methacton Students 5-Year (SAT) Results

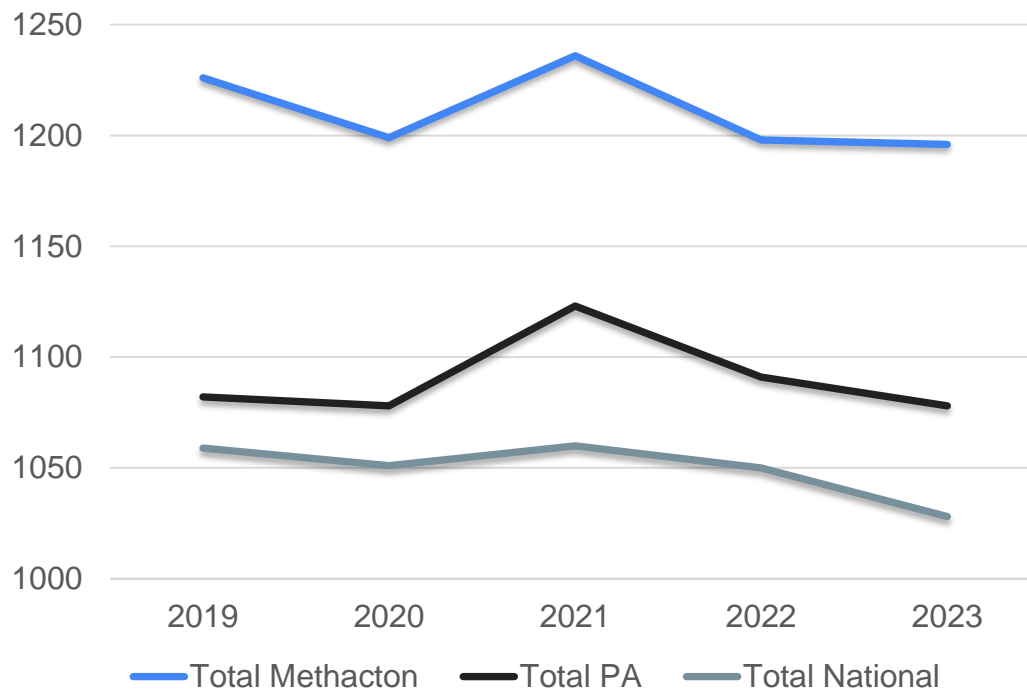


Graduation Year	# of Participants	English Reading Writing (ERW) Scores	Math Scores	Total Score
<b>2019</b>	307	604	622	1226
<b>2020</b>	282	597	602	1199
<b>2021</b>	214	612	624	1236
<b>2022</b>	310	594	604	1198
<b>2023</b>	253	599	597	1196

# Total SAT Comparative Scores



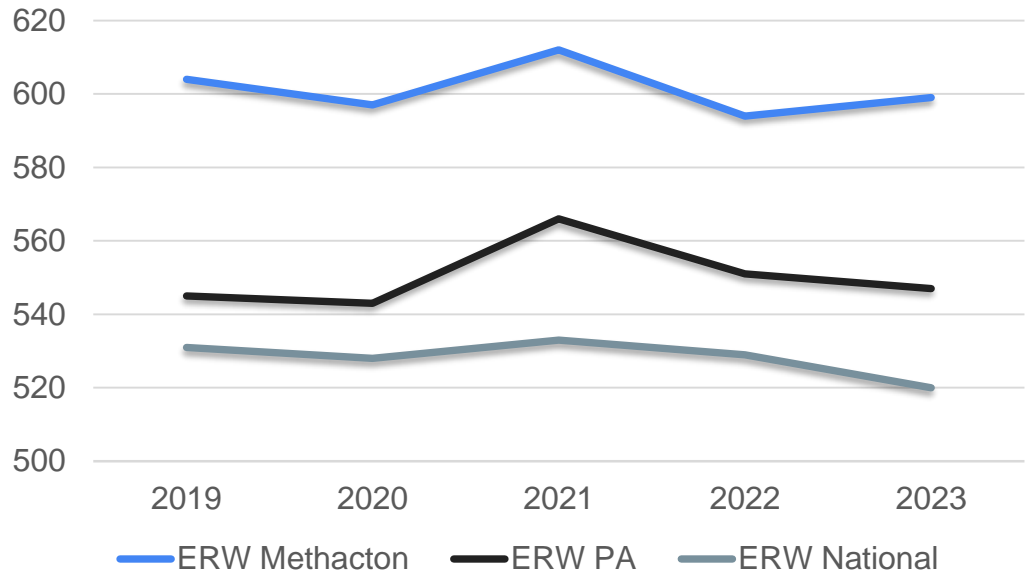
Graduation Year	Total Methacton	Total PA	Total National
2019	1226	1082	1059
2020	1199	1078	1051
2021	1236	1123	1060
2022	1198	1091	1050
2023	1196	1078	1028



# SAT English Reading Writing (ERW) Comparative Scores



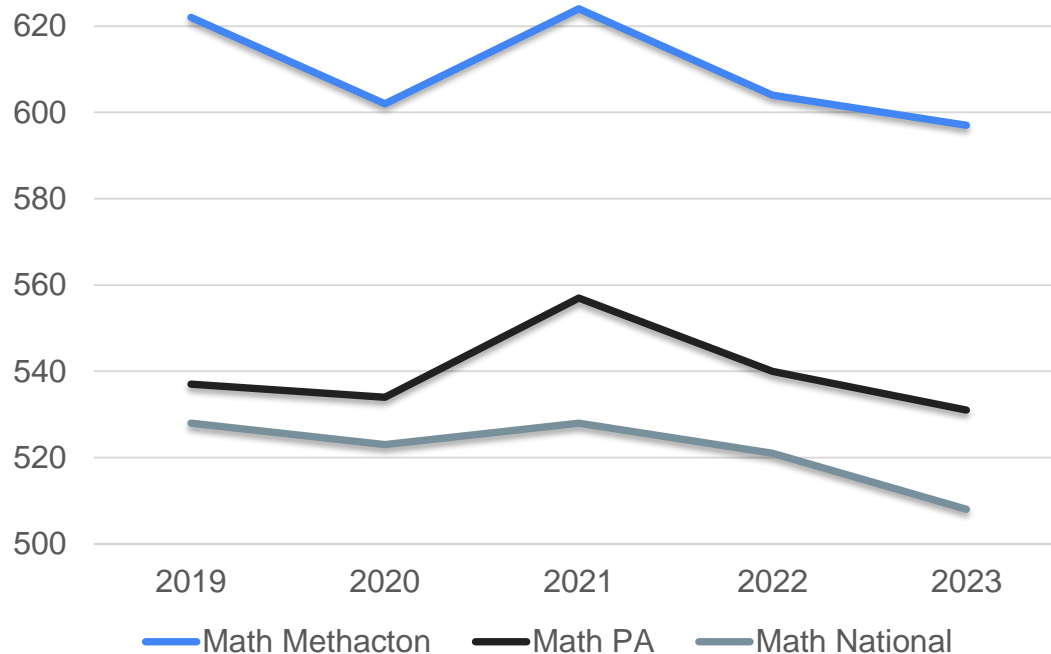
Graduation Year	ERW Methacton	ERW PA	ERW National
2019	604	545	531
2020	597	543	528
2021	612	566	533
2022	594	551	529
2023	599	547	520



# SAT Math Comparative Scores



Graduation Year	Math Methacton	Math PA	Math National
2019	622	537	528
2020	602	534	523
2021	624	557	528
2022	604	540	521
2023	597	531	508



# Methacton Students 6-Year ACT Results



Graduation Year	Total Tested (MSD)	English		Math		Reading		Science		Composite	
		MSD	PA	MSD	PA	MSD	PA	MSD	PA	MSD	PA
2018	131	25.6	23.3	26.6	23.2	25.9	24.0	25.6	23.1	26.1	23.5
2019	99	25.6	23.3	27.0	23.0	26.0	24.1	26.1	23.2	26.3	23.6
2020	94	26	23.4	26.1	23.2	26.9	24.3	25.7	23.4	26.3	23.7
2021	35	28.2	24.8	27.8	24.3	28.5	25.8	27.2	24.5	28.1	25
2022	45	25.8	24.3	26.9	23.7	26.6	25.2	26.4	24	27.3	24.4
2023	28	25.8	*	27.8	*	28.2	*	27.1	*	26.5	23.9

Benchmark scores to indicate a 50% chance of obtaining a “B” or higher or 75% chance of obtaining a “C” or higher in credit bearing college courses:

English Comp 18

College Algebra 22

Social Science 22

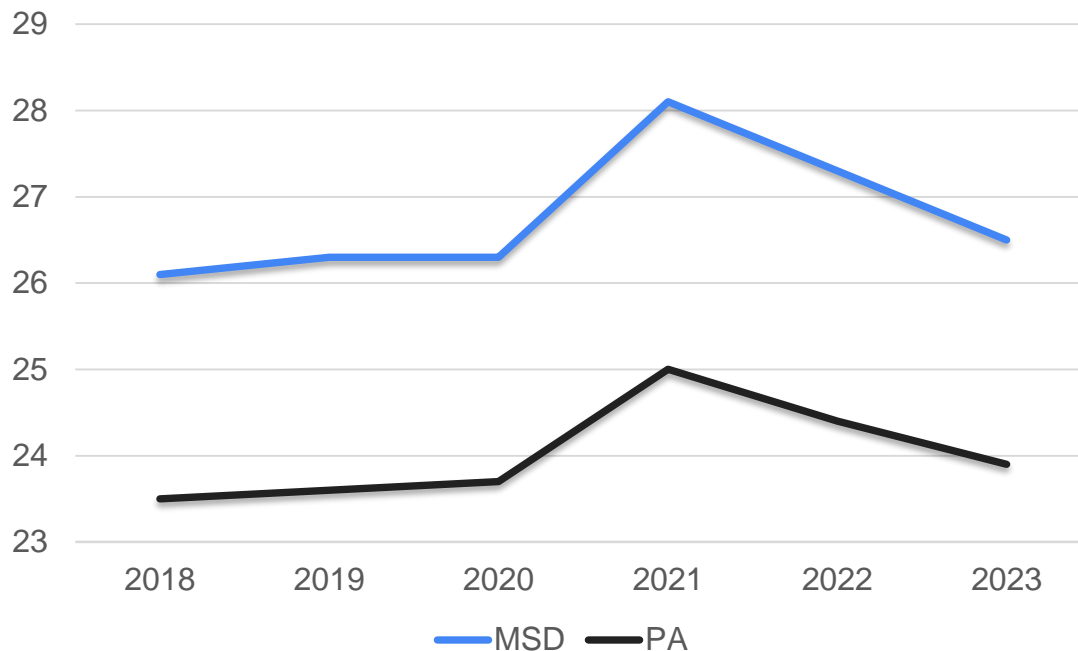
Biology 23

\*Beginning with the class of 2023 only the average composite score is published for each state

# ACT Composite Comparative Scores



Graduation Year	Methacton	PA
2018	26.1	23.5
2019	26.3	23.6
2020	26.3	23.7
2021	28.1	25
2022	27.3	24.4



# Methacton Students AP Summary

	2019	2020	2021	2022	2023
<b>Total # of AP Students</b>	351	365	323	398	355
<b>Number of Exams</b>	707	783	689	831	744
<b># of Scores with 3+</b>	331	335	288	353	317
<b>% of Scores with 3+</b>	94.30	91.78	89.16	88.69	89.30

# Scholar Report

AP Scholar – Awarded to students who receive scores of 3 or higher on three or more AP Exams.

*38 students with an average of 3.53*

AP Scholar with Honor – Awarded to students who receive an average score of at least 3.25 on all AP Exams taken, and scores of 3 or higher on four or more of these exams.

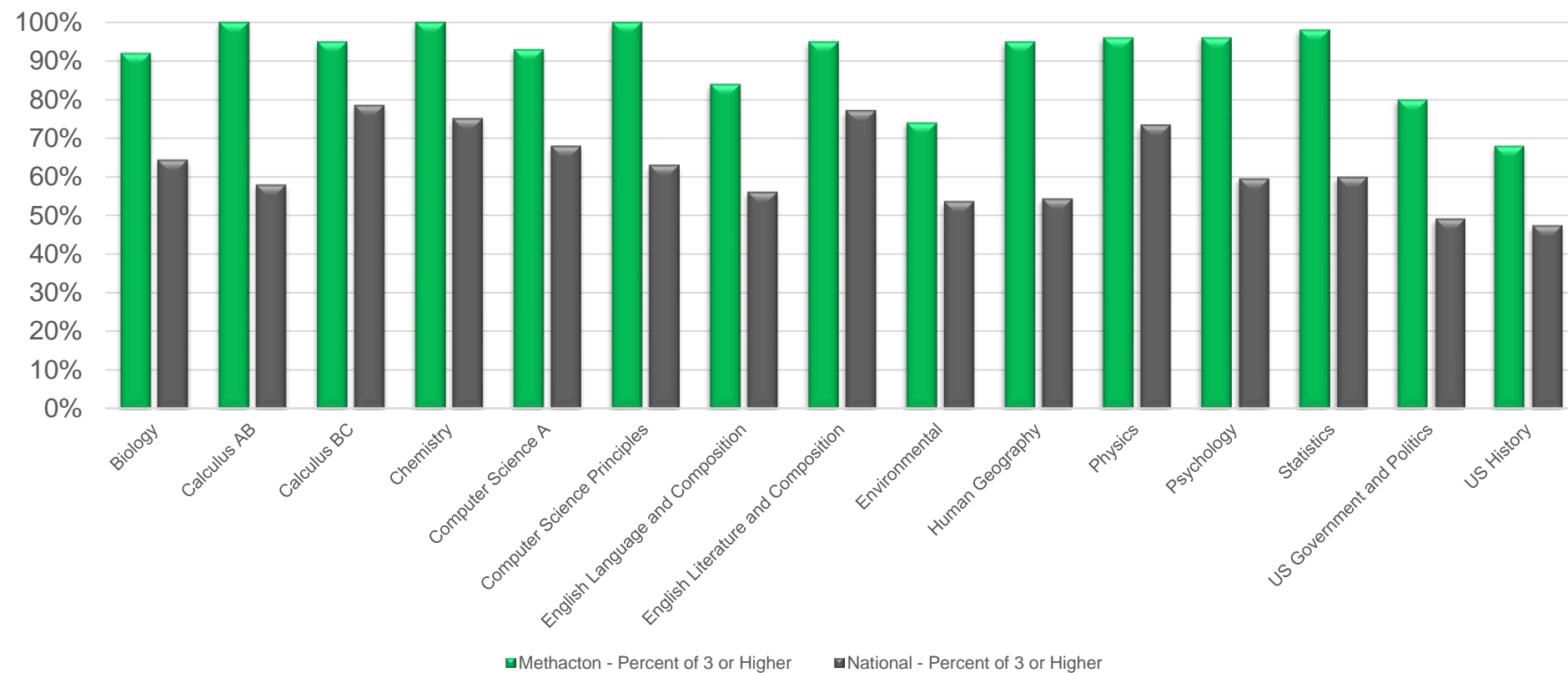
*33 students with an average of 3.69*

AP Scholar with Distinction – Awarded to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams.

*79 Students with an average of 4.44*

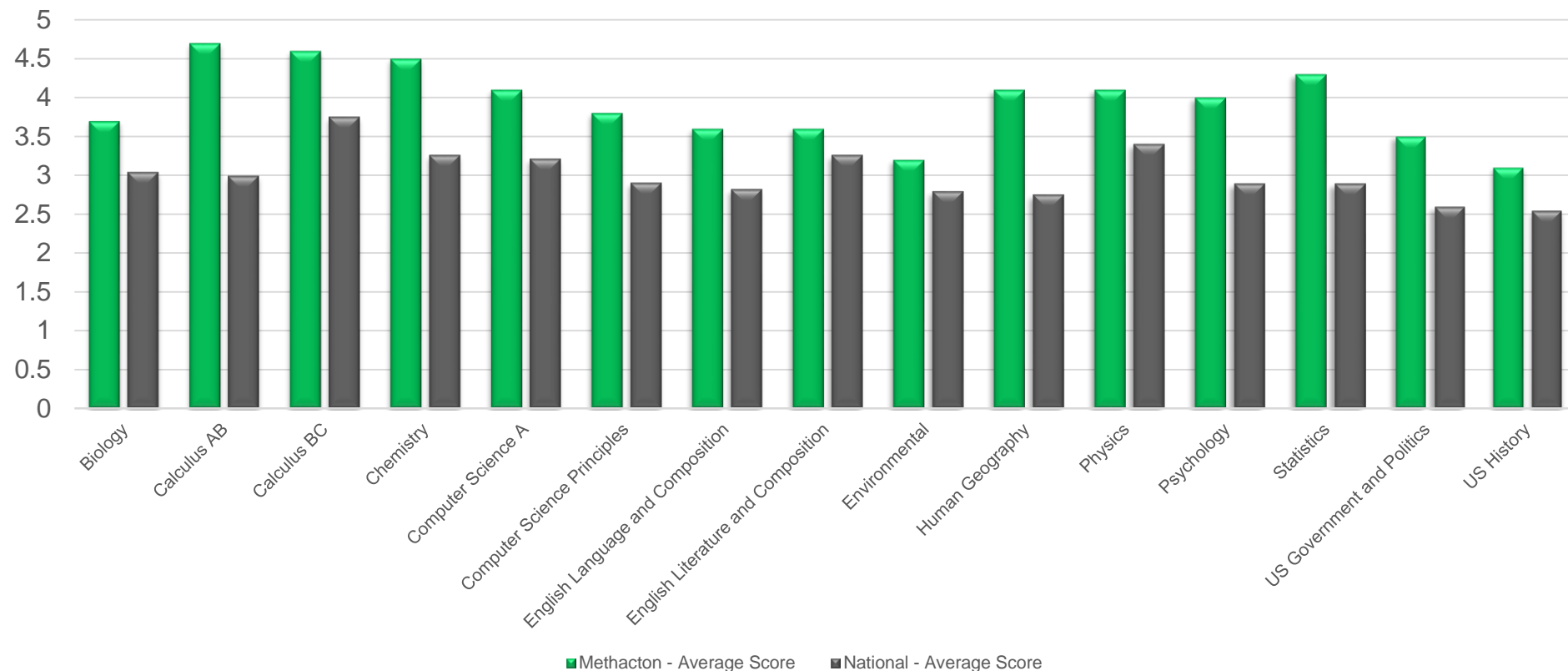


# Percentage of Students Scoring a 3 or Higher – Comparative



\*data for courses with 9 or more students tested

# Average Score on Each Exam – Methacton and National



\*data for courses with 9 or more students tested

# Additional AP Statistics



**Eleven (11) courses had 90% or more of their students scoring a 3 or higher**

- Biology = 92%
- Calculus AB = 100%
- Calculus BC = 95%
- Chemistry = 100%
- Computer Science = 93%
- Computer Science Principles = 100%
- English Literature and Composition = 95%
- Human Geography = 95%
- Physics = 96%
- Psychology = 96%
- Statistics = 98%

**Nine (9) courses had students averaging a 4 or higher (highest possible score is a 5)**

- Calculus AB = 4.7
- Calculus BC = 4.6
- Chemistry = 4.5
- Computer Science = 4.1
- European History = 4.0
- Human Geography = 4.1
- Physics = 4.1
- Psychology = 4.0
- Statistics = 4.3

# **2023-2024 School Year Response**

# Physical Changes (2023-2024)



## Personnel

- Addition of two Literacy Coaches (K-6)
- Addition of a Reading Specialist (7-8)

## Resources

- i-Ready Reading diagnostic and personal path pilot (K-8)
- Implementation of Heggerty - Phonemic Awareness (K-1)
- Resource ELA Pilot (7-8)
- i-Ready Mathematics implementation (K-8)
- New and refreshed math manipulatives (K-8)
- Refinement of resources for Algebra I Keystone remediation

# Instructional Changes (2023-2024)



## Instruction

- Structured Literacy training for English Language Arts (ELA) teachers
- New Text-Dependent Analysis (TDA), instructional tools, and assessments
- Renewed focus on writing in ELA (9-12) w/ common marking period pieces by course
- Ongoing professional learning on mathematics standards, skills, and eligible content

## Practices/Systems

- New math progress reports and standards based grading rubrics
- Math Curriculum Guides with guidelines for pacing
- Math progression shift at High School
  - Algebra I & Algebra II instead of Algebra I & Geometry
- Addition of Algebra 1A at the High School
- Changes to Keystone schedule (over 2 days)

# **Plan for Continued Growth and Success in the 2024-2025 School Year**

# Professional Learning Focus (2024-2025)



## ELA

- Increase knowledge of Structured Literacy and explicit daily instruction
- Guided grade-level ELA planning meetings
- Create a system around spelling & writing instruction and assessment
- Establish positive and intentional assessment practices
- Increase understanding of grade level Standards and Eligible Content
- Building common assessment practices grades 9-12

## Math

- Strengthen knowledge of math content (K-4)
- Increase understanding of grade level Standards and Eligible Content
- Support the implementation of the new i-Ready resources

## Science

- Engagement in the curriculum review cycle including the implementation of the Science, Technology, Engineering, Environmental, Literacy, & Sustainability (STEELS) Standards
- Professional learning related to science instruction
- Preparation for the changes to science PSSA test and schedule of testing



# Program & Resource Changes (2024-2025)



## ELA

- Expanding universal screener to grades K-6
- New reading intervention aligned to Structured Literacy
- Using the Developmental Spelling Inventory data to drive spelling instruction
- Implementation of a research-based ELA resource at Arcola
- Curriculum guides with an emphasis on standards and pacing

## Math

- Exploring support resources for students who do not pass the Keystone
- Revise Algebra I Common Unit Assessments
- Strengthening the Algebra 1A and Algebra 1B curriculum
- Reviewing the entry process and grade level proposal for Algebra 1A and Algebra 1B

## Science

- Examine programming, make recommendations, and revise planned course documents
- Write curriculum to incorporate STEELS standards
- Pilot new resources for recommendation in Spring 2025

# **Four Key Areas of Focus**



# #1 – Instructional Planning

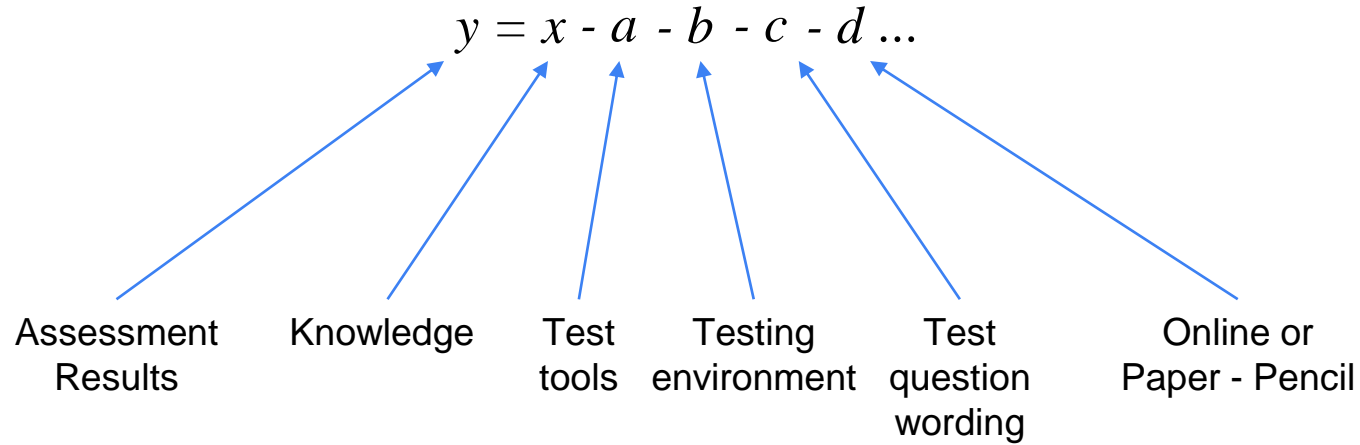
- Implement the three year professional learning plan
  - Focus on common & consistent planning
    - Use intentionality with learning targets
    - Build common instructional language
    - Refine common assessments
- Monthly District-wide data meetings with analysis and goal setting
- Committee of teachers and administrators organized to improve the consistency around planning by setting guidelines and clear expectations

## #2 – Supporting Instruction with Quality Feedback



- Thoughtful and instructive formal observation feedback
- Strengthen team walkthrough process
- Deliberate discussion prompts to drive rich dialogue between teachers and administrators
- Increase frequency of walkthroughs and feedback

# #3 – Assessment Variables





## #4 – Maximize Instructional Time

- Implement common instructional schedule K-4
  - Common planning time (focus on planning)
  - Consistent rotation with all other grade levels
  - Preserve instructional minutes
- Reviewing schedules and instructional practices at all levels



# Coaching System Development

- Provide support for 4 key focus areas
  - Team and individual planning
  - Quality feedback to all staff with support from coaches
  - Limit the negative impacts of assessment variables
  - Maximize instructional time
- Critical in creating a risk-free environment for staff to get feedback without the concerns of being evaluated
- Can be extrapolated to all job classifications to improve recruitment, retention, and culture – “Attract good people to do great things”
- The coaching system is the support that helps our instructional team (teachers, support personnel, and administrators) with the heavy lift of the 4 key focus areas

