2023 MCAS Results and Accountability Data Bedford Public Schools

Presentation to School Committee October 2023

Details of Massachusetts' school and district accountability system

Massachusetts' accountability system is designed to measure how a school or district is doing and what kind of support it may need. The accountability system considers:

Achievement	MCAS scores in English language arts, math, and science					
Student Growth	Student growth percentiles in English language arts and math					
	Four-year cohort graduation rate					
High School Completion	Extended engagement rate (five-year cohort graduation rate plus the percentage of students from the cohort who are still enrolled)					
	Annual dropout rate					
Progress Towards English Proficiency	Percentage of English learners meeting annual targets in order to reach English proficiency in six years					
Chronic Absenteeism	Percentage of students missing 10 percent or more of the days they were enrolled at a given school during a school year					
Advanced Coursework Completion	Percentage of 11 th and 12 th graders completing advanced coursework (Advanced Placement, International Baccalaureate, Project Lead the Way, dual enrollment courses, and other selected rigorous courses)					

The system sorts schools and districts into categories to recognize success and identify where support is most needed:



DESE released 2023 accountability results, the first **<u>full</u>** release of accountability data since 2019.

This year's information includes data on accountability indicators such as graduation and chronic absenteeism rates, and it also includes school percentiles, determinations of each district's and school's need for assistance or intervention, and their progress toward goals in each indicator.

In 2022, Accountability Reports did not include the determinations of each district and school's needs for assistance or intervention, or targets for districts, or measures of their progress toward those targets.

Detailed data for each indicator for Bedford Public Schools (Achievement, Student Growth, HS Completion, EL, Chronic Absenteeism, Advanced Course Completion)

Overall BPS Accountability

Accountability	Group	2019	2022	2023
Overall Classification	All Students	Not requiring assistance or intervention	Due to COVID-19 no determination	Not requiring assistance or intervention
Reason for Classification	All Students	Meeting or exceeding targets	Due to COVID-19 no determination	Meeting or exceeding targets
Progress toward Improvement Targets	All Students	76%-Meeting or exceeding targets	Due to COVID-19 no determination	83%-Meeting or exceeding targets

Detailed data for each indicator for Bedford Public Schools (Achievement, Student Growth, HS Completion, EL, Chronic Absenteeism, Advanced Course Completion)

BPS Student Achievement % Meeting or Exceeding Expectations

<u>Indicator</u>	Group	<u>2019</u>	<u>2022</u>	<u>2023</u>
ELA 3-8	All Students	70%	68%	73%
ELA 10	All Students	71%	80%	86%
Math 3-8	All Students	72%	70%	65%
Math 10	All Students	79%	77%	80%

Detailed data for each indicator for Bedford Public Schools (Achievement, Student Growth, HS Completion, EL, Chronic Absenteeism, Advanced Course Completion)

BPS Student Growth Percentile (SGP)

Indicator	Group	2019	2022	<u>2023</u>
ELA 4-8 (SGP starts in grade 4)	All Students	53.1% Mean SGP	57.9% Mean SGP	57.1% Mean SGP
ELA 10	All Students	48.1% Mean SGP	69.6% Mean SGP	53.5% Mean SGP
Math 3-8	All Students	54.3% Mean SGP	53.4% Mean SGP	51.0% Mean SGP
Math 10	All Students	59.6% Mean SGP	62.8% Mean SGP	59.7% Mean SGP

BPS Graduation Rate

<u>Indicator</u>	Group	<u>2020</u>	<u>2021</u>	2022	<u>2023</u>
Graduation Rate	All Students	95.1%	95.8%	98.2%	100%

BPS Progress toward attaining English language proficiency

Indicator	Group	2020	2022	2023
ELL Proficiency 3-8	All Students	78.4%	68.9%	78.9%
ELL Proficiency HS	All Students	N (7) not high enough to register	N (7) not high enough to register	N (7) not high enough to register

BPS Chronic Absenteeism

Indicator	2019	2020	2021	2022	2023
Chronic Absenteeism 3-8	4.5% (BPS)	No Data	No Data	10.8% (BPS)	9.4% (BPS)
	9.0% (State)			24.1% (State)	18.4% (State)
Chronic Absenteeism HS	11.4% (BPS)	No Data	No Data	13.3% (BPS)	13.3% (BPS)
110	17.3% (State)			31.8% (State)	26.4% (State)

Chronic Absenteeism: Chronic absenteeism is defined as the percentage of students missing 10 percent or more of their days in membership. The chronic absenteeism rate includes both excused and unexcused absences and is calculated for students in grades 1-12. To be included in a school's chronic absenteeism rate, a student must be enrolled in the school for at least 20 days at any point in the school year.

BPS Advanced Coursework Completion

<u>Indicator</u>	Group	<u>2019</u>	2022	<u>2023</u>
Advanced Coursework Completion HS	All Students	62.4%	70.4%	73.5%

BPS Accountability

<u>School</u>	Accountability Information	School Accountability Percentile 2022	School Accountability Percentile 2023
Bedford High School	Not Requiring assistance or intervention	87	93
John Glenn Middle School	Not Requiring assistance or intervention	87	90
Lt. Job Lane School	Not Requiring assistance or intervention	92	93

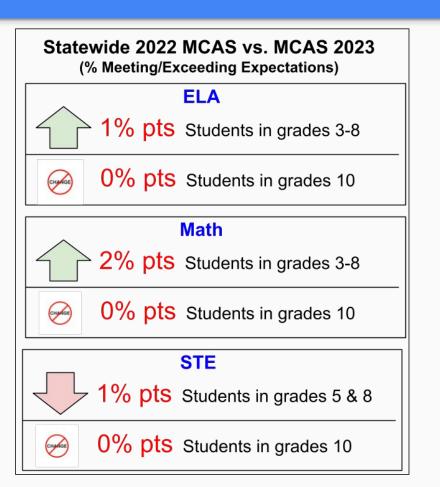
An **accountability percentile** between 1 and 99 is reported for most schools. This number is an indication of the school's overall performance relative to other schools that serve similar grades, and is calculated using multiple years of data for all accountability indicators.

MCAS

2019-2023 MCAS Administrations Statewide

2019	Full tests in grades 3-8 and high school
2020	NO MCAS tests administered.
2021	Half tests in grades 3-8, full tests in high school
2022	Full Tests in grades 3-8 and high school
2023	Full Tests in grades 3-8 and high school

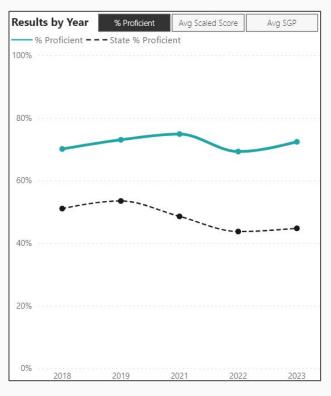
2023 MCAS Results Statewide



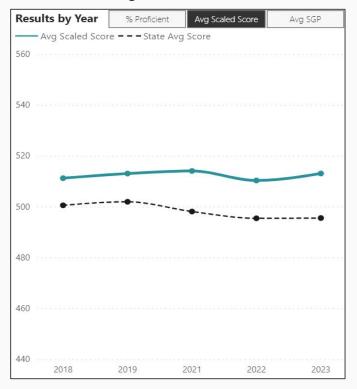
Science: "Science scores decreased slightly in 2023. This spring was the second administration of the next-generation high school biology and introductory physics tests." ~DESE

2023 MCAS ELA Results Statewide vs. Bedford

Proficient



Average Scaled Score



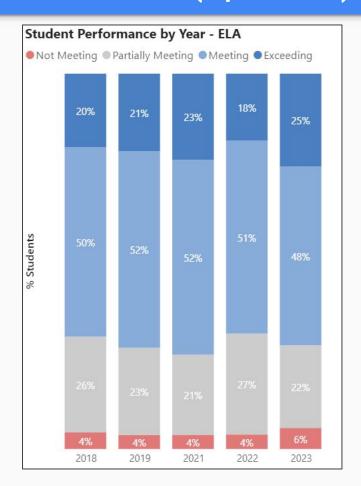
2023 MCAS ELA Results Bedford (specific)



Average Scaled Score

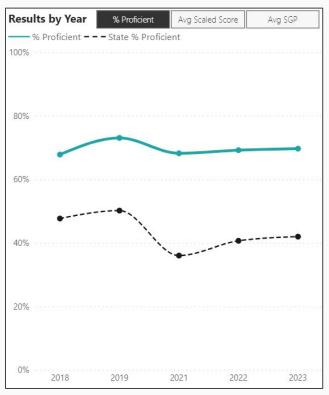
513

† +3 vs. previous year
n/a vs. state average

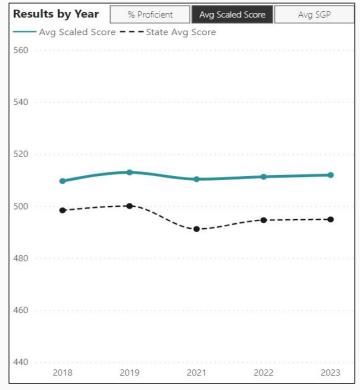


2023 MCAS Math Results Statewide vs. Bedford





Average Scaled Score



2023 MCAS Math Results Bedford (specific)

% Students Proficient

70% vs. previous year

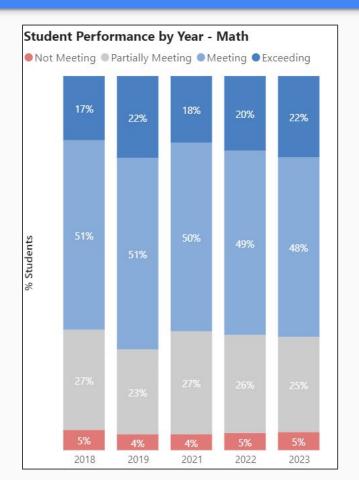
+28% vs. state average

Average Scaled Score

512

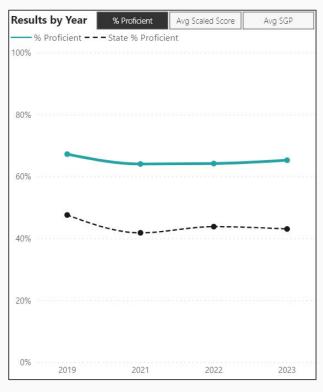
† +1 vs. previous year

†+17 vs. state average

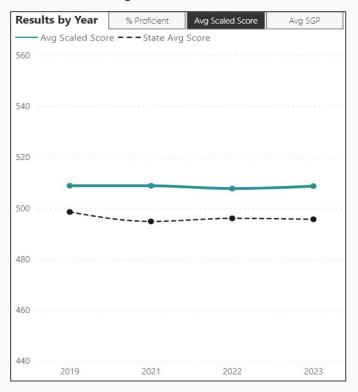


2023 MCAS STE Results Statewide vs. Bedford

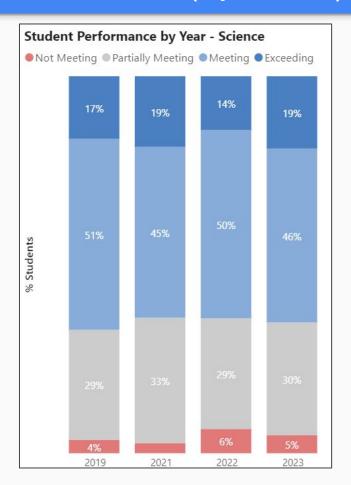
Proficient



Average Scaled Score



2023 MCAS STE Results Bedford (specific)



2023 MCAS ELA Grade 10 Results District Comparison

District Na	ime	2019	2021	2022	2023	
Weston		88%	82%	88%	86%	
Wayland		87%	89%	84%	88%	
Wakefield		70%	70%	66%	65%	
Nashoba		81%	82%	79%	82%	
Mendon-U	lpton	77%	69%	66%	68%	
Melrose		76%	76%	79%	79%	
Lynnfield		77%	90%	79%	79%	
Holliston		73%	89%	70%	72%	
Chelmsford	d	81%	83%	77%	76%	
Bedford		69%	87%	78%	84%	
Ashland .		82%	86%	75%	76%	
Bedford All Students Year	District Compari District Value			ient elected Districts	Com	npared to All District
2023	84%		4 of 12			27 of 302
2022	78%		7 of 12			41 of 301
2021	87%		5 of 12			27 of 301
2010	019 69%		12 of 12			122 of 303

2023 MCAS Math Grade 10 Results District Comparison

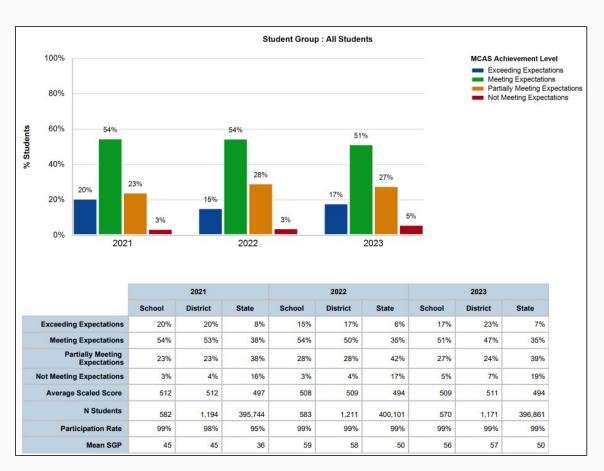
District Na	me	2019	2021	2022	2023	
Weston	1	87%	84%	87%	82%	
Wayland		87%	80%	82%	85%	
Wakefield		68%	61%	64%	58%	
Nashoba		80%	75%	76%	75%	
Mendon-U	pton	75%	61%	54%	60%	
Melrose		68%	61%	61%	64%	
Lynnfield		76%	80%	69%	76%	
Holliston		82%	85%	78%	71%	
Chelmsford	d	80%	70%	63%	65%	
Bedford		75%	80%	75%	79%	
Ashland		81%	84%	74%	76%	
Bedford All Students Year	District Comparis) District Value			icient elected Districts	Com	pared to All District
2023	79%		4 of 12			31 of 302
2022	75%		6 of 12			31 of 300
2021	80%		5 of 12			28 of 301
2019	75% 9 of 12			66 of 303		

2023 MCAS STE Grade 9/10 Results District Comparison

District Na	ime	2022	2023	
Weston		77%	74%	
Wayland		80%	82%	
Wakefield		65%	56%	
Nashoba		71%	74%	
Mendon-U	pton	51%	69%	
Melrose		65%	64%	
Lynnfield		69%	66%	
Holliston		68%	70%	
Chelmsford	d	66%	62%	
Bedford		62%	72%	
Ashland 59%		59%	73%	
Bedford All Students Year			Science: % Proficient Compared to Selected Distri	cts Compared to All Districts
2023	72%		6 of 12	42 of 300
2022	62%		10 of 12	82 of 298

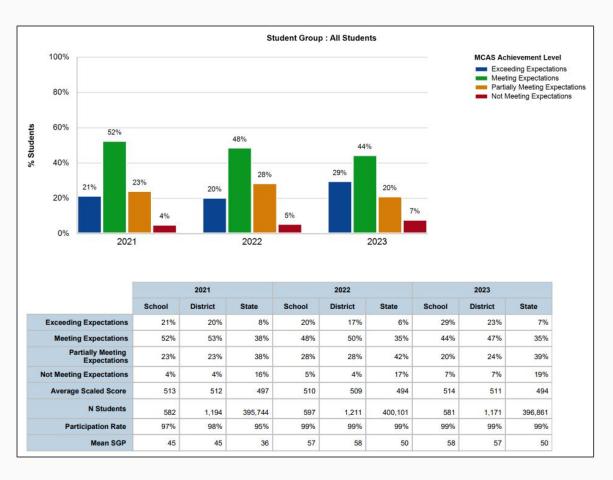
English Language Arts MCAS Grades 3-8

2021-2023 MCAS English Language Arts-Lane School (Grades 3-5)



Year	% of all Lane 3-5 Graders Meeting or Exceeding Expectations on ELA MCAS
2021	74%
2022	69%
2023	68%

2021-2023 MCAS English Language Arts-JGMS (Grades 6-8)



Year	% of all MS students meeting or exceeding expectations
2021	73%
2022	68%
2023	73%

ELA Grades 3-5

Reading:

- Foundations K-3/4
- Added in phonemic awareness and phonics instruction to lessons
- Added instruction for using decodable tests
- Addition of Responsive Teaching Resources and strategies, suggestions for differentiation and support for multilingual learners
- Addition of Knowledge Generation into whole group lessons, including prior knowledge and vocabulary mapping and development
- Added access to Lexia to now include K-5
- Continue Orton Gillingham Training
- MCAS Item Analysis

ELA Grades 3-5

Writing:

- Increased the number of common grade level lessons and assessments
- Lessons created on structure and construction of narrative and expository writing
- At the administrative and coaching levels investigating programs to provide additional supports on structure and construction of narrative and expository writing
- Improved scheduling to lengthen writing blocks
- Formal data meetings are held twice a year
- Professional Development will continue, in grades 3-5 on writing, calibrating common writing assessments and making instructional plans

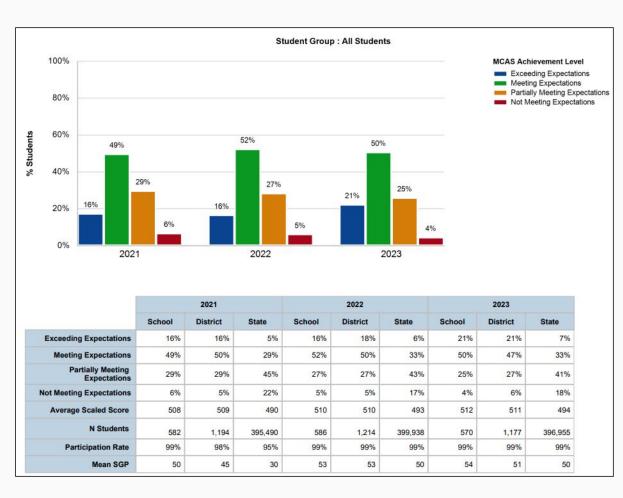
ELA Grades 6-8

<u>JGMS</u>

- MCAS: Analysis of scores including item analysis and subgroup data
- Common Assessments: Writing common assessments administered
- Screeners: Used Track My Progress (STAR 2023)
- Focus Areas: Grade level teams met in January to determine a focus area for growth after the second common assessment
- Reading and Writing 6: this model provides additional time on reading and writing workshop for all 6th graders
 Disciplinary Literacy Instruction: All JGMS staff had a review of Keys to Literacy
- Disciplinary Literacy Instruction: All JGMS staff had a review of Keys to Literacy strategies to support reading skills across content areas
- Individual Student Needs: Identify students who scored Not Meeting and Partially Meeting on previous MCAS and address supports such as Writing Lab, Organizational Support.

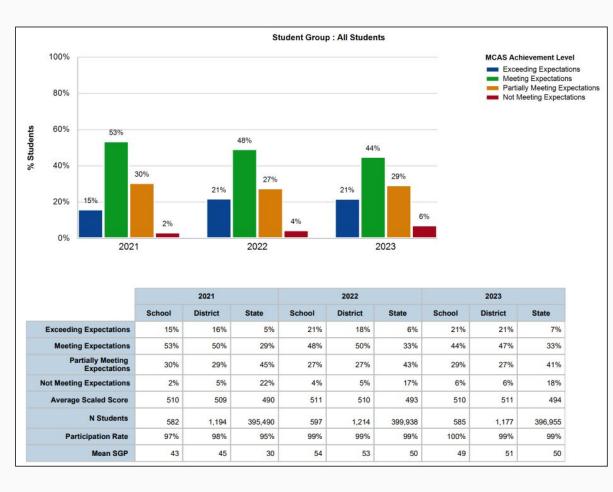
Mathematics MCAS Grades 3-8

2021-2023 MCAS Mathematics-Lane School (Grades 3-5)



Year	% of all Lane 3-5 Graders Meeting or exceeding Expectations on Math MCAS
2021	65%
2022	68%
2023	71%

2021-2023 MCAS Mathematics-JGMS (Grades 6-8)



Year	% of all JGMS 6-8 Graders Meeting or Exceeding Expectations on Math MCAS
2021	68%
2022	69%
2023	65%

Math Grades Lane 3-5

Tier One/Core Math Program:

 All classes implementing Bridges in Mathematics (year one for grade 5)

Interventions:

 Targeted interventions with support of Title I.

Digital Classroom Supports:

- DreamBox Math (Davis)
- IXL, Reflex, and Frax (Lane)

<u>Differentiation/Challenge work:</u>

 Math Curriculum Committee members vertically aligned foundational skill areas, and are piloting tasks to stretch & support students.

Data Work:

 STAR math assessment in grades 1-5 and common grade level math assessments K-5. Data meetings, two times a year to discuss data and student needs.

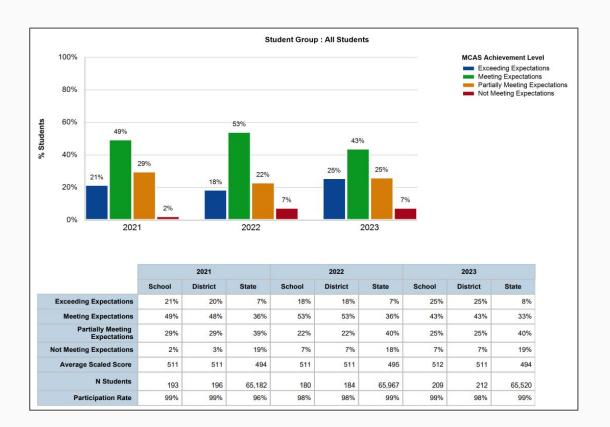
JGMS Math Grades 6-8

Department Collaborative Time

- Review MCAS item analysis and test questions all from DESE/EDWIN reports.
- Beginning and middle of year data meetings to review Star or Track my Progress data. Establish strong connection between Star results and MCAS performance.
- Multiple meetings creating formative assessments (low stakes checks for understanding) of high value MCAS topics.
- Update our recommendation process (Year 2) including formalizing how students are recommended for Calculus Project supports.
- Collaborated on a final draft of grades 6-10 fundamental skills supporting our Curriculum Committees work.

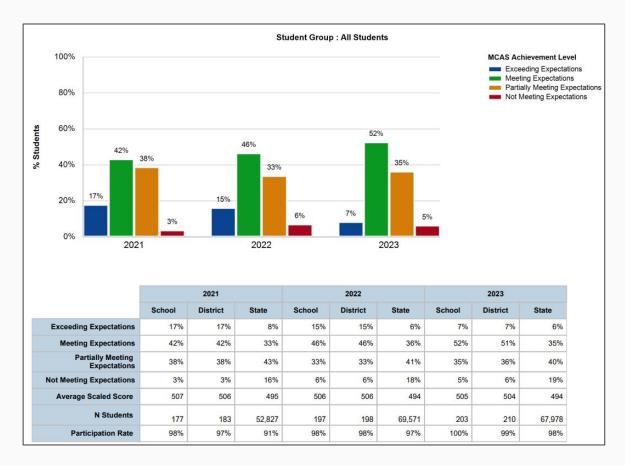
Science and Technology/Engineering MCAS Grades 5 and 8

2021-2023 MCAS Science and Technology/Engineering Grade 5



Year	% of all 5th Graders Meeting or Exceeding Expectations on STE MCAS
2021	68%
2022	71%
2023	68%

2021-2023 MCAS Science and Technology/Engineering Grade 8



Year	% of all JGMS 8th Graders Meeting or Exceeding Expectations on STE MCAS
2021	59%
2022	61%
2023	59%

Grade 5 STE

- Consistency Across Grade Levels: All science units are taught at the same time so data from the common assessments can be used as a tool for calibration.
- MCAS to Inform Teaching: Continue utilizing MCAS questions into each grade levels' teaching and assessment to gradually expose students to the high levels of reading and responding to science questions. (on going)..
- IXL Online Review: Specific Massachusetts Standards reviewed in grade 5 (covers grades 3-5 standards) Year long scope and review of skills and standards.
- iRobot: In 2022-23 Representatives from iRobot visited grade 4 and 5 classrooms in recognition of National Robotics Week.
- Instructional Coaches: at Davis and Lane, facilitate the integration of technology into classroom instruction.
- Curriculum Coordinator Attending: Science and Technology/ Engineering Performance Assessment Ambassador Training and adapting materials for Lane as well as collecting data to share with DESE.
- Collaboration with BEST PTO: to include hands-on opportunities for students to engage with science concepts in a self-directed manner.

Grade 8 STE

MCAS Data Analysis and Response

- Determination of areas of strength and growth in the current scope and sequence of lessons
- Inclusion of short MCAS style formative assessments to identify standards
- Methodical reteaching of standards not fully understood
- Incorporation of practice MCAS questions and test taking strategies for students to familiarize themselves with the MCAS format and language

Curriculum Documentation and Review

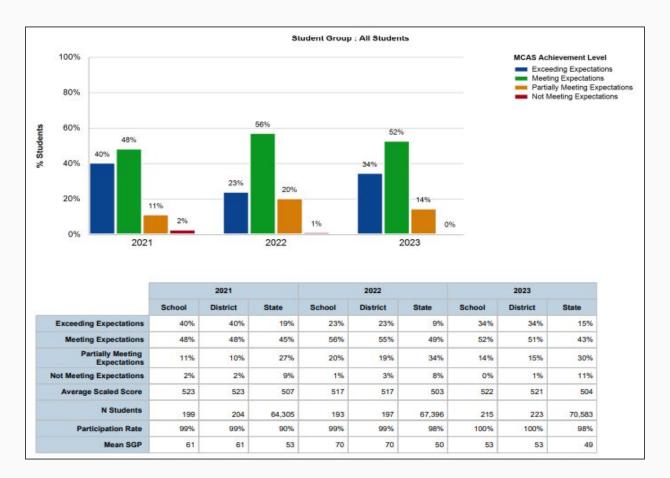
- Focus on highly engaging exercises to include all students
- More hands on activities culminating in critical debriefing of learning experience
- Focus on vertical alignment throughout grades 6-8 to spiral the most foundational content

Collaboration Across Grade Levels

- Use of department time to discuss common content themes and lesson
- Lane, JGMS, and BHS Leadership attending DESE Ambassador training for upcoming switch to the STE Performance Assessment

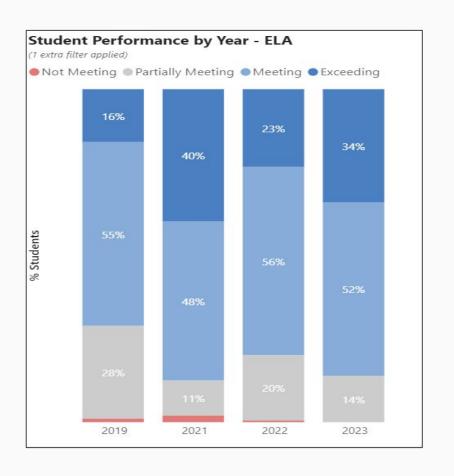
English Language Arts MCAS Grade 10

2021-2023 MCAS English Language Arts Grade 10



Year	% of all 10th Graders Meeting or Exceeding Expectations on ELA MCAS
2021	88%
2022	79%
2023	86%

2019-2023 MCAS English Language Arts Grade 10



2023 MCAS English Language Arts Grade 10 Information

Percent possible points earned in Idea Development and Conventions

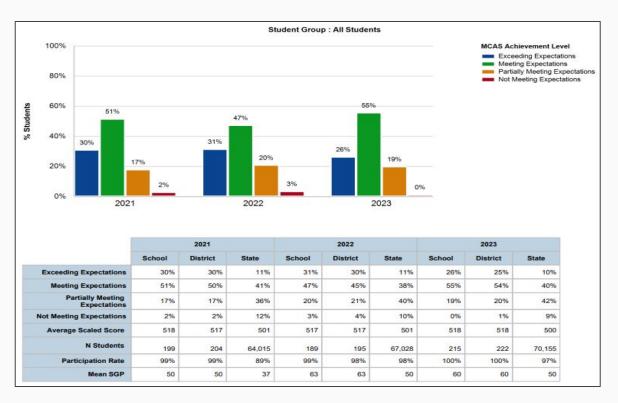
	2019	2021	2022	2023
Idea Development	56	67	68	68.5
Conventions	83.5	92	94.5	93.5

Grade 10 ELA

- MCAS: Analysis of scores including item analysis and subgroup data
- Focus on analyzing multiple texts and idea development in writing for all students
- Common Assessments: Implemented six (three per grade) common assessments
- Screening: Conducted literacy screening assessments with all current 6-9th grade students to identify trends.
- Individual Student Needs: Identify students who scored Not Meeting and Partially Meeting on grade 8 MCAS and address supports.
- Diagnostics: Conducted literacy diagnostic testing for students who have been referred and placed in reading classes.
- Disciplinary Literacy Instruction: Shared information with teaching teams about how to support students who scored lower on reading screener

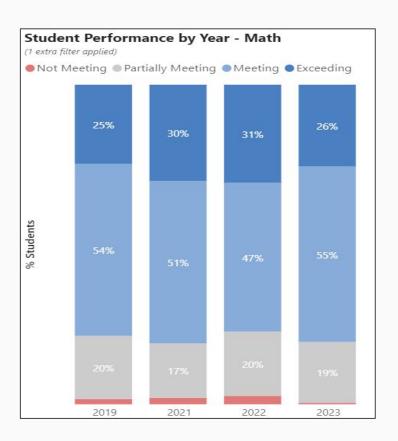
Mathematics MCAS Grade 10

2021-2023 MCAS Mathematics Grade 10



Year	% of all 10th Grade Meeting or Exceeding Expectations on Math MCAS
2021	81%
2022	78%
2023	81%

2019-2023 MCAS Mathematics Grade 10



Grade 10 Math

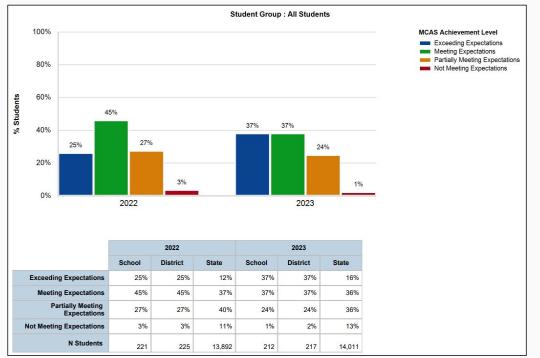
- Review MCAS item analysis and 2022 test questions all from DESE/EDWIN reports.
- Beginning and middle of year data meetings to review Star data. Establish strong connection between Star results and MCAS performance.
- Multiple meetings creating formative assessments (low stakes checks for understanding) of high value MCAS topics.
- Year 2 of unit template work documenting curriculum in all courses with focus on standards commonly assessed on MCAS.
- Continue to build department's resources of MCAS practice material.

Grade 10 Math

- Collaboration with Special Education liaisons to review key MCAS topics in Learning Centers based on summer 2022 summer curriculum work.
- Year 2 of MCAS Practice Test for all students in Geometry College Prep.
- College Prep Geometry class focused on standards/topics tested on MCAS year to year.
- All classes, especially MCAS subjects of Algebra I/II and Geometry, have common assessments and have for many years.

Science and Technology/Engineering MCAS Grade 9 Physics

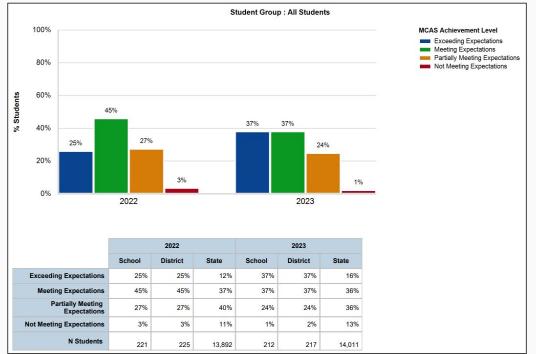
2022-2023 Physics-Grade 9/10



Year	% of all 9th/10th Graders Meeting or Exceeding Expectations on Physics MCAS
2022	70%
2023	74%

These results are calculated using the Next Generation Scale and are not comparable to previous years.

2022-2023 Physics-Grade 9/10



Year	% of all 9th/10th Graders Meeting or Exceeding Expectations on STE MCAS
2022	70%
2023	74%

These results are calculated using the Next Generation Scale and are not comparable to previous years.

Grade 9 STE

MCAS Data Analysis and Response

- MCAS question item analysis to determine areas of strength and growth
- Inclusion of short MCAS style formative assessments to identify standards not understood by students early and often throughout the school year. Methodical reteaching of standards not fully understood.
- Practice MCAS test in late April for all CP STE students taking MCAS using Edulastic software. Students in need of additional intervention identified and supported.
- Lane, JGMS, and BHS Leadership attending DESE Ambassador training for upcoming switch to the STE Performance Assessment

Collaboration with Learning Coaches and Academic Achievement Center

 Sharing of practice STE lessons and answer keys through a designated Google Classroom for teachers of students receiving support services

Partnership with Registrar, Guidance, and Director of Student Achievement

• Ensure that students new to Bedford are enrolling in the appropriate science class to meet graduation requirements (only physics and biology MCAS tests are now available)

District Wide

- Data Wise Teacher PD
- Bridges Math Program
- RBT (Research for Better Teaching) Coaching
- Differentiation and Studying Skillful Teaching Course
- Orton Gillingham Training
- Multi-Tiered System of Supports (MTSS)

- Writing and reading in different genres
- Continued Summer Curriculum Work
- November and March PD days
- BHS curriculum template work
- BPS Curriculum Review Process
- STAR Math and Reading Assessment Implementation
- Investigating: science assessment, structured writing approach, and student database.

Thank You

To the Bedford Community (faculty, staff, administration, students, and families)

