State Assessment Report

Report of School Year 2022-23 Results



February 2024

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The State Assessment report is produced annually by the SSD Evaluation and Research Division.

Description

The State Assessment Results report summarizes state accountability assessment results and trends. The report analyzes District performance on the academic assessment component of the Missouri School Improvement Program (MSIP) accountability framework. Reporting and analysis of SSD student performance on state accountability assessments allows for identification of District trends, accomplishments, and opportunities for improvement.

Results Summary

- The percentages of students performing in the Basic range or better, across all test types, in school year 2022-23 were 27.4% in ELA (a decrease), 20.1% in math (an increase), 20.7% in science (a decrease), and 72.5% in social studies (a decrease).
- 2022-23 was the final year of the full-day program at North Tech, and the number of state assessment scores from North Tech made up a small proportion of the overall SSD total. When North Tech results are excluded, year-to-year comparisons are more positive in some cases (see interpretive note below).
- Among students who participate in the MAP-A alternative assessment, the percentage achieving a result
 categorized as Basic or better was 13.8% in ELA (a decrease), 6.3% in math (an increase), and 13.3% in
 science (an increase).
- Performance of students across different race/ethnicity groups was relatively comparable.
- Students who were eligible for the **Free and Reduced Lunch (FRL)** program performed in the Basic range or better at rates that were **similar** to those for students who were ineligible for FRL.
- Based on MAP growth scores, students made stronger gains in Math than ELA relative to the prior year's
 assessment results. On average, students' math scores exceeded predicted performance, while students'
 ELA scores fell slightly below predicted performance.

Interpretive Guidance

- Students whose state assessment results contribute to accountability ratings include those that take the grade-level MAP at grades 3-8; those that take the MAP-Alternative (MAP-A) assessments at grades 3-8 and 11¹; and secondary students who take a required End-of-Course (EOC) exam. The required EOCs include English II (English Language Arts), Algebra I or Algebra II (math), Biology (science), and Government (social studies). The point in time a particular EOC is taken during high school (or in some cases middle school) is typically dictated by when the associated course is taken.
- The full-day option at North Tech has been phased out as of school year 2023-24. The phase-out occurred over several years. SSD has been "accountable" for the scores of full-day (but not half-day) CTE students. There were only 10, 6, 3, and 10 results for ELA, math, science, and social studies EOCs, respectively, for North Tech students in 2022-23. Given that full-day North Tech students as a group have scored better than students attending other SSD schools and programs historically, the proportional decrease in tech school participants can have the statistical effect of reducing the percentage of students performing in the Basic range or better relative to the prior year, independent of any actual variation in student test performance.
- DESE establishes cut scores (i.e., the scores for a given test that determine achievement level) for state assessments. Established cut scores were based on stakeholder review, measurement considerations, and public input.
- The Dynamic Learning Maps (DLM)² serves as the alternative assessment (MAP-A) in the content areas of ELA, math, and science. MAP-A scores are reported only for students in grade 11 at the secondary school

¹ SSD requires the DLM (i.e., MAP-A) assessment be completed with students in grades 9 and 10 as well, though their scores are not "accountable" nor do they appear in the DESE student test file, and thus they are omitted from this report.

² Per the Missouri DESE website, "The Dynamic Learning Maps™ (DLM) project offers an innovative way for all students with significant cognitive disabilities to demonstrate their learning throughout the school year via the DLM Alternate Assessment System. Note that the DLM achievement categories of Emerging, Approaching the Target, At Target, and Advanced differ somewhat from the traditional state assessment achievement categories of Below Basic,

level. Therefore, the number of reportable scores for special education secondary schools is relatively small, and test outcomes for these schools are less representative of all students that are eligible for MAP-A relative to SSD's K-8 schools, where all students in grades 3-8 are assessed.

• This report includes results for all students assessed who had a valid score. Note that MSIP accountability formula calculations exclude some students, namely those who had attended the district for less than a year at the time of testing.

Basic, Proficient, and Advanced. Further information about DLM can be found at http://dese.mo.gov/college-career-readiness/assessment/map-a.

Detailed Results

Performance Level Results

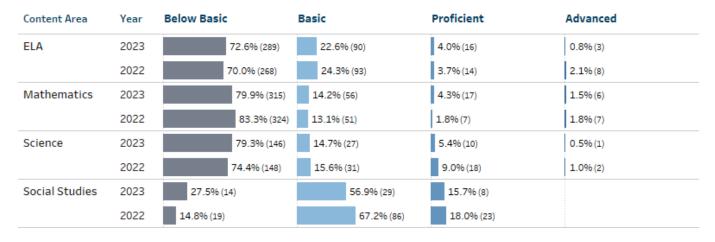
Performance/Effectiveness Question(s) These Data Inform: What proportion of students performed at each achievement level (Below Basic, Basic, Proficient, or Advanced) on the state accountability assessments? How does performance compare to that from prior years?

The charts below display the proportion of students performing at each achievement level in school years 2021-22 and 2022-23 for the District overall as well as for the District excluding scores from North Tech. Results for each SSD school can be found in **Appendix A**. For comparison purposes, state-level results for grade-level assessments and EOCs, along with results for the Missouri Schools for the Severely Disabled (whose students are all assessed via the MAP-A format), are available in **Appendix B**.³

Key Trends

- Across all three assessment types (i.e., grade-level MAP, EOC, and MAP-A), **27.4%** of students performed in the Basic range or better in the **ELA** content area in school year 2022-23. This percentage is somewhat **lower** relative to school year 2021-22 (30.0%).
- **20.1%** of students performed in the Basic range or better in the **math** content area in 2022-23. This percentage is somewhat **higher** relative to school year 2021-22 (16.7%).
- **20.7%** of students scored in the Basic range or better in the content area of **science** in 2022-23. This percentage is **lower** compared to the 2021-22 results (25.6%). However when North Tech scores are excluded, the Basic and higher percentage was an **improvement** over 2021-22 (20.4% compared to 14.8%).
- **72.5%** of students scored in the Basic range or better in the content area of **social studies** in 2022-23. This percentage is **lower** relative to school year 2021-22 (85.2%). The annual score difference is smaller when North Tech results are excluded (65.9% vs. 71.9%).

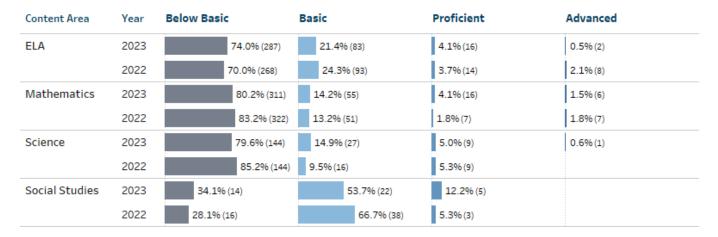
SSD State Assessment Results District-level Results by Content Area



³ While provided as a reference point, statewide results, including results specific to students with IEPs, represent a less-than-ideal comparison for SSD given that SSD's student population includes mostly students with significant disabilities, many of whom qualify to take the alternative assessment.

District-level Results by Content Area EXCLUDING NORTH TECH

Results shown include student scores that do not contribute to accountability ratings (e.g., students attending the district for less than one academic year). Excludes assessment invalidations.



Performance Level Results by Test Type

Performance and Effectiveness Question(s) These Data Inform: How did student performance on the state assessments vary by test type (Grade-level MAP vs. EOC vs. MAP-A)? Are results more favorable for certain test types or for specific subject areas?

The chart below displays 2021-22 and 2022-23 results disaggregated by assessment format. Individual school results by assessment type can be found in **Appendix A**.

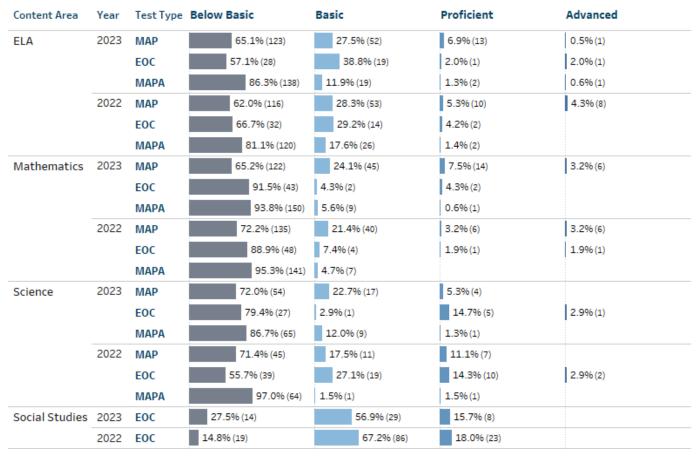
Key Trends

- Grade-level MAP (students in grades 3-8):
 - 34.9% of students assessed performed in the Basic range or better in 2022-23 in the ELA content area.
 This is a somewhat lower percentage relative to 2021-22 (38.0%).
 - 34.8% of students assessed performed in the Basic range or better in 2022-23 in the math content area. This is higher relative to 2021-22 (27.8%).
 - 28.0% of students assessed performed in the Basic range or better in 2021-22 in the science content area. This is about the same as in 2021-22 (28.6%).
- **EOC** (students in grades 9-12):
 - 42.9% of students assessed performed in the Basic range or better in 2022-23 on the ELA EOC. This is a higher percentage relative to 2021-22 (33.3%). When North Tech scores are excluded (data not shown), the proportion Basic or better was the same (33.3%) in 2021-22 and 2022-23.
 - 8.5% of students assessed performed in the Basic range or better in 2022-23 on the math EOC. This is a lower percentage relative to 2021-22 (11.1%).
 - 20.6% of students assessed performed in the Basic range or better in 2022-23 on the science EOC, which is substantially lower than 2021-22 (44.3%). However when North Tech scores are excluded (data not shown), results were stronger in 2022-23 (19.4% vs. 12.5%).
 - 72.5% of students assessed performed in the Basic range or better in 2022-23 on the social studies EOC, which is lower than in 2021-22 (85.2%). The discrepancy is smaller when North Tech scores are excluded (65.9% in 2022-23 vs. 71.9% in 2021-22; data not shown).

- MAP-A⁴ (students in grade 3-8, and 11):
 - 13.8% of students assessed performed in the Basic range or better in 2022-23 in the ELA content area.
 This is lower than the percentage of students who scored Basic or better in 2021-22 (18.9%).
 - 6.3% of students assessed performed in the Basic range or better in 2022-23 in the math content area.
 This is an increase relative to 2021-22 (4.7%).
 - o **13.3%** of students assessed performed in the Basic range or better in 2022-23 in the **science** content area. This is a considerably **higher** percentage in comparison to 2021-22 (3.0%).
 - The percentage of SSD students taking the MAP-A who scored beyond the Below Basic range is either comparable to or marginally higher than (depending upon content area) that for the Missouri Schools for the Severely Disabled (see **Appendix B**).

SSD State Assessment Results District-level Results by Test Type

Results shown include student scores that do not contribute to accountability ratings (e.g., students attending the district for less than one academic year). Excludes assessment invalidations.



Note. MAP-A results include scores for grades 3-8, and 11.

⁴ When reviewing school-level results, keep in mind that MAP-A is accountable only for 11th graders only in high schools, so year-to-year comparisons are of separate cohorts, and the number of students tested at the secondary level for accountability purposes tends to be small.

Demographic Group Results

Performance and Effectiveness Question(s) These Data Inform: How did students in different race categories perform on the assessment? How did students who are eligible for the Free and Reduced Lunch (FRL) program perform on the assessment?

Disaggregation of state assessment results by DESE race category and FRL eligibility appears in the charts below.

Key Trends

- **Black students** performed in the Basic range or better (across all test types) at the following rates in 2022-23: ELA **26.5%**; math **20.7%**; science **16.5%**; and social studies **81.5%**%. Excluding North Tech results (not shown), the percentages were 24.8%, 20.6%, 16.8%, and 73.7%, respectively.
- White students performed in the Basic range or better at the following rates in 2022-23: ELA 26.7%; math 18.0%; science 25.4%; and social studies 57.9%. The percentages are the same when North Tech results are excluded.
- Students identified in race categories other than Black or White (including Multi-race) performed in the Basic range or better at the following rates in 2022-23: ELA 37.9%; math 24.1%; science 28.6%; and social studies 80.0%. Excluding North Tech results, the percentages were 33.3%, 22.2%, 23.1%, and 66.7%, respectively. The number of students from this group who took a given test was small in some cases.
- Students who met eligibility criteria for FRL performed in the Basic range or better at the following rates in 2022-23: ELA 27.4%; math 22.0%; science 19.5%; and social studies 85.7%. Excluding North Tech results, the percentages were 26.8% in ELA, 21.2% in math, 18.6% in science, and 84.6% in social studies. 2022-23 results were relatively similar for students who met eligibility for FRL and students who did not meet eligibility for FRL, with the exception of social studies, in which area students meeting eligibility criteria for FRL scored in the Basic range or above at a higher rate (85.7% vs. 67.6%).

2023 District-level Results by Student Race Category

Race	Content Area	Test Type	Below Basic	Basic	Proficient	Advanced
Black	ELA	All Tests	73.5% (172)	23.1% (54)	3.0% (7)	0.4%(1)
		MAP	69.8% (88)	24.6% (31)	5.6% (7)	
		EOC	62.5% (20)	37.5% (12)		
		MAPA	84.2% (64)	14.5% (11)		1.3%(1)
	Mathematics	All Tests	79.3% (184)	14.2% (33)	3.9% (9)	2.6% (6)
		MAP	67.7% (84)	20.2% (25)	7.3% (9)	4.8% (6)
		EOC	96.9% (31)	3.1% (1)		
		MAPA	90.8% (69)	9.2% (7)		
	Science	All Tests	83.5% (86)	13.6% (14)	2.9%(3)	
		MAP	76.5% (39)	19.6% (10)	3.9%(2)	
		EOC	92.9% (13)	7.1% (1)		
		MAPA	89.5% (34)	7.9%(3)	2.6%(1)	
	Social Studies	All Tests	18.5% (5)	74.1% (20)	7.4% (2)	
		EOC	18.5% (5)	74.1% (20)	7.4% (2)	
White	ELA	All Tests	73.3% (99)	21.5% (29)	4.4% (6)	0.7% (1)
		MAP	56.6% (30)	34.0% (18)	7.5% (4)	1.9%(1)
		EOC	50.0% (7)	42.9% (6)	7.1% (1)	
		MAPA	91.2% (62)	7.4% (5)	1.5% (1)	
	Mathematics	All Tests	82.0% (109)	12.8% (17)	5.3%(7)	
		MAP	62.3% (33)	28.3% (15)	9.4% (5)	
		EOC	83.3% (10)	8.3% (1)	8.3%(1)	
		MAPA	97.1% (66)	1.5% (1)	1.5%(1)	
	Science	All Tests	74.6% (50)	14.9% (10)	9.0% (6)	1.5% (1)
		MAP	60.9% (14)	30.4% (7)	8.7% (2)	
		EOC	70.6% (12)		23.5% (4)	5.9%(1)
		MAPA	88.9% (24)	11.1% (3)		
	Social Studies	All Tests	42.1% (8)	31.6% (6)	26.3% (5)	
		EOC	42.1% (8)	31.6% (6)	26.3% (5)	
Race other	ELA	All Tests	62.1% (18)	24.1% (7)	10.3% (3)	3.4%(1)
than Black		MAP	50.0% (5)	30.0% (3)	20.0% (2)	
or White		EOC	33.3% (1)	33.3% (1)		33.3% (1)
including		MAPA	75.0% (12)	18.8% (3)	6.3%(1)	
Multi-race	Mathematics	All Tests	75.9% (22)	20.7% (6)	3.4%(1)	
		MAP	50.0% (5)	50.0% (5)		
		EOC	66.7% (2)		33.3% (1)	
		MAPA	93.8% (15)	6.3%(1)		
	Science	All Tests	71.4% (10)	21.4% (3)	7.1% (1)	
		MAP	100.0% (1)			
		EOC	66.7% (2)		33.3% (1)	
		MAPA	70.0% (7)	30.0% (3)		
	Social Studies	All Tests	20.0% (1)	60.0% (3)	20.0% (1)	
		EOC	20.0% (1)	60.0% (3)	20.0% (1)	

2023 District-level Results by Direct Certification of Free and Reduced Lunch Eligibility

Results shown include student scores that do not contribute to accountability ratings (e.g., students attending the district for less than one academic year). Excludes assessment invalidations.

FRL Direct Cert	Content Area	Test Type	Below Basic	Basic	Proficient	Advanced
Eligible FRL	ELA	All Tests	72.6% (143)	22.8% (45)	3.6% (7)	1.0%(2)
		MAP	68.2% (75)	24.5% (27)	6.4% (7)	0.9%(1)
		EOC	52.2% (12)	43.5% (10)		4.3%(1)
		MAPA	87.5% (56)	12.5% (8)		
	Mathematics	All Tests	78.0% (156)	15.0% (30)	4.5% (9)	2.5% (5)
		MAP	65.7% (71)	23.1% (25)	6.5% (7)	4.6% (5)
		EOC	89.3% (25)	3.6% (1)	7.1% (2)	
		MAPA	93.8% (60)	6.3% (4)		
	Science	All Tests	80.5% (70)	13.8% (12)	4.6% (4)	1.196(1)
		MAP	82.1% (32)	15.4% (6)	2.6%(1)	
		EOC	73.3% (11)	6.7%(1)	13.3% (2)	6.7%(1)
		MAPA	81.8% (27)	15.2% (5)	3.0%(1)	
	Social Studies	All Tests	14.3% (2)	71.4% (10)	14.3% (2)	
		EOC	14.3% (2)	71.4% (10)	14.3% (2)	
Not Eligible	ELA	All Tests	72.6% (146)	22.4% (45)	4.5% (9)	0.5% (1)
FRL		MAP	60.8% (48)	31.6% (25)	7.6% (6)	
		EOC	61.5% (16)	34.6% (9)	3.8% (1)	
		MAPA	85.4% (82)	11.5% (11)	2.1%(2)	1.096(1)
	Mathematics	All Tests	82.0% (159)	13.4% (26)	4.1% (8)	0.5% (1)
		MAP	64.6% (51)	25.3% (20)	8.9% (7)	1.396(1)
		EOC	94.7% (18)	5.3%(1)		
		MAPA	93.8% (90)	5.2%(5)	1.0% (1)	
	Science	All Tests	78.4% (76)	15.5% (15)	6.2% (6)	
		MAP	61.1% (22)	30.6% (11)	8.3%(3)	
		EOC	84.2% (16)		15.8% (3)	
		MAPA	90.5% (38)	9.5% (4)		
	Social Studies	All Tests	32.4% (12)	51.4% (19)	16.2% (6)	
		EOC	32.4% (12)	51.4% (19)	16.2% (6)	

Student Growth

Performance and Effectiveness Question(s) These Data Inform: To what extent did students improve their performance on the state assessment in comparison to expectations based on prior performance?

DESE calculates a growth score for each student that represents the difference between the student's performance in the current year and their "predicted" performance based on their prior year score and several other factors. As of 2022-23, growth scores are calculated for students in grades 4-8 taking the grade-level MAP, as well as students taking EOCs. Growth scores are not available for students who take the MAP-A. This growth metric is used to determine the APR growth points districts and schools earn per the MSIP accountability formula. The data also allow districts to examine the extent to which students made normative gains from one year to the next. Charts displaying growth data overall and by school, for both ELA and math, are provided below.

⁵ APR points for growth are based on where a district's average residual falls along the distribution of average residuals across Missouri districts. Thus the magnitude of the average residual, or whether the residual is negative or positive, will not explain a district's APR growth score/points.

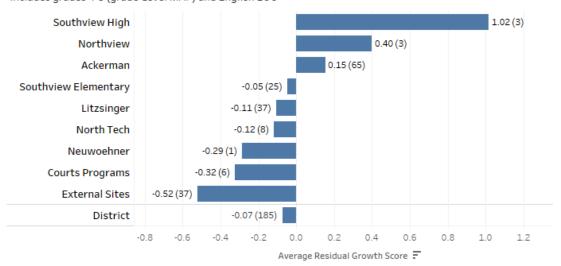
Key Trends

- Across all schools, students exceeded their predicted score (i.e., improved upon their prior year score) to a greater extent in **math** than **ELA**.
- On average, students scored beyond their predicted performance in math (by almost a quarter of a standard deviation). In contrast, students on average scored slightly below their predicted level of performance in ELA.
- There was some degree of variance in student growth across individual SSD schools.
- SSD secondary schools / EOCs contributed a nominal number of scores to the district average, External Sites being an exception.

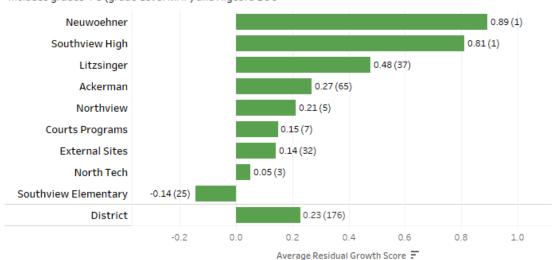
Average Student Growth vs. Predicted (residual z-score)

A z-score reflects the standard deviation above or below the mean; thus the residual represents the fraction of a standard deviation students scored above or below the predicted score based on prior year results and other factors. Residual z-scores above 0 exceed "Predicted" performance for individual students. Student counts appear in parentheses

ELA
Includes grades 4-8 (grade-Level MAP) and English EOC



Math Includes grades 4-8 (grade-Level MAP) and Algebra EOC



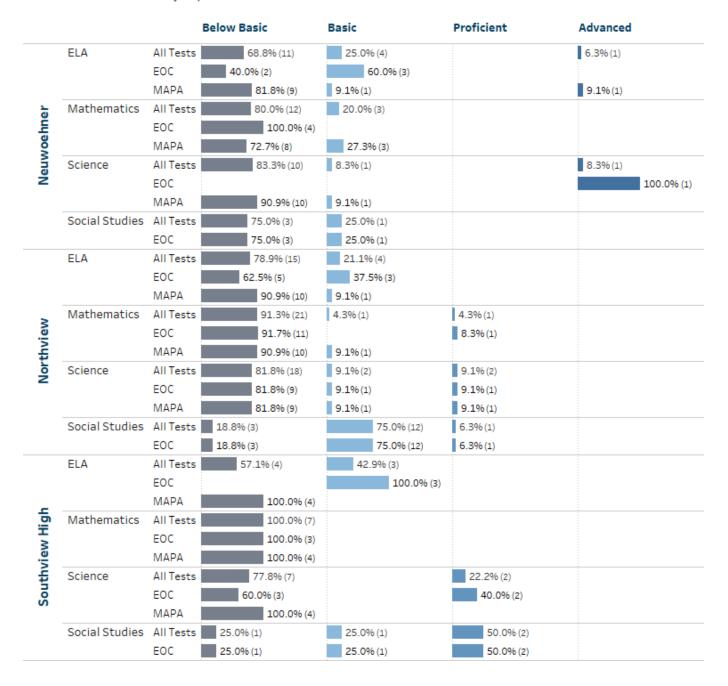
Appendix A Results by School

SSD State Assessment Results

2023 Results by School / Site

			Below Basic	Basic	Proficient	Advanced
	ELA	All Tests	67.8% (80)	23.7% (28)	7.6% (9)	0.8%(1)
		MAP	53.4% (39)	34.2% (25)	11.0% (8)	1.4%(1)
_		MAPA	91.1% (41)	6.7% (3)	2.2% (1)	
Ackerman	Mathematics	All Tests	73.5% (86)	16.2% (19)	5.1% (6)	5.1% (6)
ern		MAP	58.3% (42)	25.0% (18)	8.3% (6)	8.3% (6)
상		MAPA	97.8% (44)	2.2% (1)		
	Science	All Tests	77.3% (34)	18.2% (8)	4.5% (2)	
		MAP	71.0% (22)	22.6% (7)	6.5% (2)	
		MAPA	92.3% (12)	7.7% (1)		
	ELA	All Tests	75.7% (78)	22.3% (23)	1.9% (2)	
		MAP	72.9% (35)	25.0% (12)	2.1% (1)	
		MAPA	78.2% (43)	20.0% (11)	1.8% (1)	
Litzsinger	Mathematics	All Tests	76.7% (79)	17.5% (18)	5.8% (6)	
si.		MAP	58.3% (28)	31.3% (15)	10.4% (5)	
İŢ		MAPA	92.7% (51)	5.5% (3)	1.8%(1)	
_	Science	All Tests	70.0% (28)	30.0% (12)		
		MAP	66.7% (12)	33.3% (6)		
		MAPA	72.7% (16)	27.3% (6)		
	ELA	All Tests	70.7% (41)	22.4% (13)	6.9% (4)	
		MAP	53.1% (17)	34.4% (11)	12.5% (4)	
>		MAPA	92.3% (24)	7.7% (2)		
Southview	Mathematics	All Tests	77.6% (45)	17.2% (10)	5.2%(3)	
ţ		MAP	59.4% (19)	31.3% (10)	9.4%(3)	
on		MAPA	100.0% (26)			
(I)	Science	All Tests	75.0% (15)	15.0% (3)	10.0% (2)	
		MAP	61.5% (8)	23.1% (3)	15.4% (2)	
		MAPA	100.0% (7)			

2023 Results by School / Site



2023 Results by School / Site

			Below Basic	Basic	Proficient	Advanced
	ELA	All Tests	20.0% (2)	70.0% (7)		10.0%6 (1)
		EOC	20.096 (2)	70.096 (7)		10.0% (1)
유	Mathematics	All Tests	66.7% (4)	16.7% (1)	16.7% (1)	
North Tech		EOC	66.7% (4)	16.7% (1)	16.7% (1)	
or t	Science	All Tests	66.7% (2)		33.3% (1)	
Z		EOC	66.7% (2)		33.3% (1)	
	Social Studies	All Tests		70.0% (7)	30.0% (3)	
		EOC		70.0% (7)	30.0% (3)	
	ELA	All Tests	86.6% (58)	11.9% (8)	1.5% (1)	
		MAP	88.9% (32)	11.1% (4)		
		EOC	82.6% (19)	13.0% (3)	4.3% (1)	
		MAPA	87.5% (7)	12.5% (1)		
	Mathematics	All Tests	93.8% (61)	6.2% (4)		
ites		MAP	94.3% (33)	5.7% (2)		
a S		EOC	95.5% (21)	4.5% (1)		
External Sites		MAPA	87.5% (7)	12.5% (1)		
X	Science	All Tests	94.1% (32)	2.9%(1)	2.9%(1)	
		MAP	92.3% (12)	7.7% (1)		
		EOC	92.9% (13)		7.1% (1)	
		MAPA	100.0% (7)			
	Social Studies	All Tests	41.2% (7)	47.1% (8)	11.8% (2)	
		EOC	41.2% (7)	47.1% (8)	11.8% (2)	

Appendix B Statewide MAP Results

State-level Assessment Results
Including results for all students and for students with IEPs

Type	Content Area	Year	Below Basic	Basic	Proficient	Advanced
Students	ELA	2023	47.8%	38.3%	10.6%	3.3%
with IEPs		2022	48.5%	37.8%	10.3%	3.4%
	Mathematics	2023	63.6%	23.8%	8.5%	4.1%
		2022	64.6%	23.7%	8.0%	3.8%
	Science	2023	57.6%	28.8%	10.3%	3.4%
		2022	57.2%	29.9%	10.096	3.0%
	Social Studies	2023	14.5%	72.89	11.9%	0.8%
		2022	16.4%	72.5%	10.6%	0.5%
All	ELA	2023	18.5%	37.8%	27.6%	16.1%
Students		2022	18.4%	38.4%	27.5%	15.8%
	Mathematics	2023	28.5%	31.0%	22.3%	18.2%
		2022	29.4%	31.4%	22.1%	17.1%
	Science	2023	24.9%	35.9%	24.3%	15.0%
		2022	25.1%	37.3%	24.2%	13.5%
	Social Studies	2023	4.8%	55.8%	35.3%	4.1%
		2022	5.1%	54.8%	36.8%	3.3%

Source: Missouri Comprehensive Data Site https://apps.dese.mo.gov/MCDS/Home.aspx

Assessment Results for Students Attending MO Schools for the Severely Disabled

Percentages do not equate to 100%. Complete results for each performance level are unavailable because DESE suppresses results in public datasets when the student count within a performance level falls below 5

Content Area	Year	Below Basic	Basic	Proficient	Advanced
ELA	2023	88.3%	10.2%		
Mathematics	2023	93.9%	5		
Science	2023	91.9%	4.7%		
Social Studies	2023				

Source: Missouri Comprehensive Data Site https://apps.dese.mo.gov/MCDS/Home.aspx