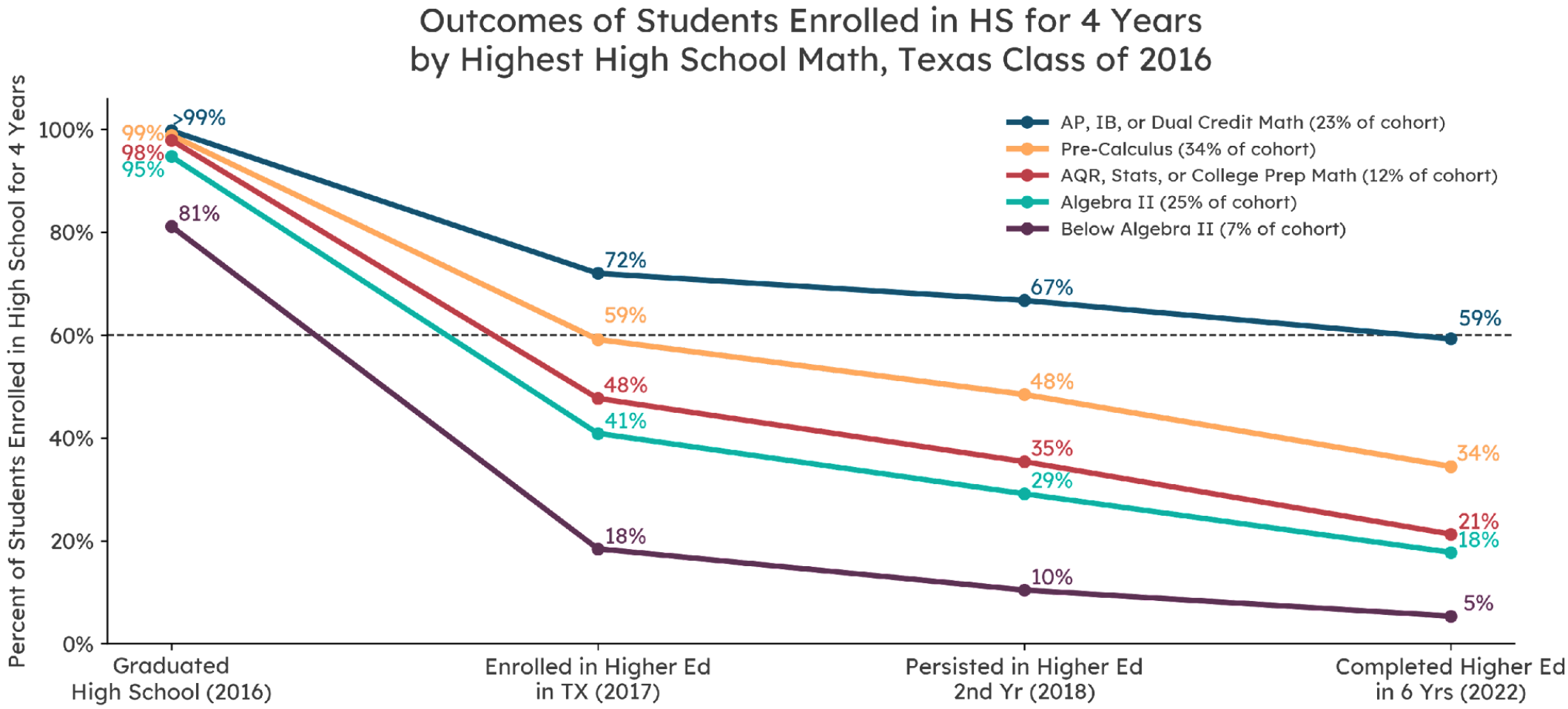
Texas Education Agency

Middle School Advanced Mathematics

Students who take advanced math courses in high school are more likely to persist in and complete higher education

Math Pipeline- Texas



Source: E3 Alliance analysis of TEA and THECB data at the UT Austin Education Research Center

SB 2124 – Middle School Advanced Math Program

Texas Education Code §28.029

The purpose of this law —

"To increase the number of students who complete advanced mathematics courses in high school"

The requirement enacted by this law —

"Each school district and open-enrollment charter school **shall** develop an advanced mathematics program for middle school students that is designed to enable those students to enroll in Algebra I in eighth grade."

School districts and open-enrollment charter schools must develop middle school advanced mathematics programs as soon as practicable after the bill's effective date of May 27, 2023.

Statutory Requirements

Texas Education Code §28.029

(b) Under the program, subject to Subsection (c), a school district or open-enrollment charter school **shall** automatically enroll in an advanced mathematics course each sixth grade student who performed in the top 40 percent on:

(1) the fifth grade mathematics assessment instrument administered under Section 39.023(a); or

(2) a local measure that includes the student's fifth grade class ranking or a demonstrated proficiency in the student's fifth grade mathematics coursework.

(c) The parent or guardian of a student described by Subsection (b) may opt the student out of automatic enrollment under that subsection.

(d) The commissioner may adopt rules to implement this section.

Proposed Rules

The rules propose the following:

- LEAs must **develop a local measure** in addition to the statewide measure for use in determining student eligibility for automatic enrollment.
- LEAs must automatically enroll **each** Grade 6 student who—
  - performed in the **60th percentile or higher on statewide scores** for the Grade 5 STAAR Math exam or
  - performed in the **top 40% on a local measure** that includes a student's Grade 5 class ranking or demonstrated proficiency in math coursework.
- LEAs must **make public the criteria for automatic enrollment** in the advanced math program **before the start of each school year**.
- LEAs **must provide written notice to the parent or guardian** of each grade 6 student who will be automatically enrolled in an advanced math program **no later than 14 days before the first day of instruction** for the school year.

Middle School Advanced Mathematics Programs

Proposed rules related to the middle school advanced mathematics program requirement were posted on Feb. 23.

The proposal is available on the Commissioner's Proposed Rules webpage.

The public comment period on the proposed rules will end on **March 25, 2024**.

Comments can be submitted via the online public comment form.

Support for Implementation

TEA will host a webinar to assist LEAs in short-term and long-term planning for implementation.

When: March 28, 2024 2:00 PM Central Time
Topic: Advanced Mathematics Middle School Program Webinar

Register in advance for this webinar:
https://zoom.us/webinar/register/WN_JOHpjPkASb-MT-Qm3_Uy8w

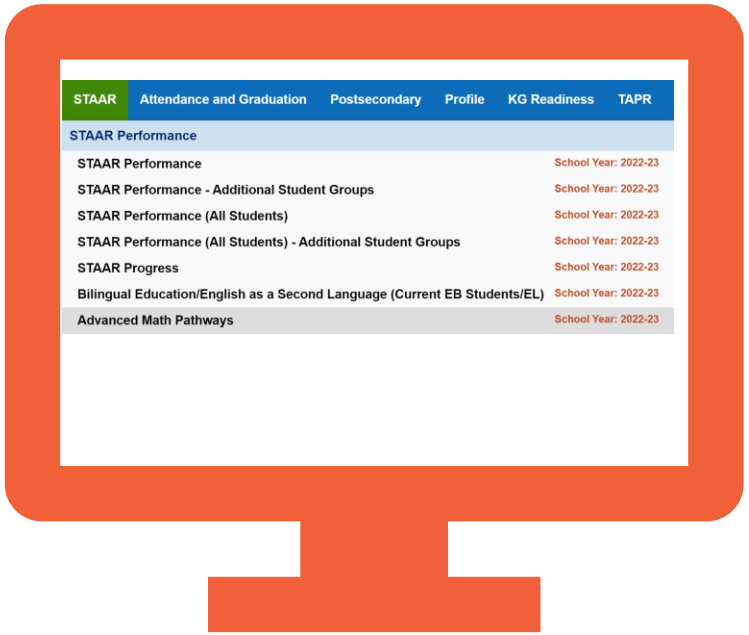
A recording of the webinar and additional resources will be posted on the TEA website.

New Advanced Math Pathways Report in TPRS

- **Purpose**
  - Identify students who demonstrate proficiency in grade 5 mathematics and were enrolled in an advanced middle school mathematics program.
    - Defined in report as Meets or Masters on STAAR Grade 5 Math Assessment and completion of the STAAR Algebra 1 EOC by the end of 8th grade.
- **Included Data**
  - Grade 8 Algebra 1 EOC participation across student groups
- **Where to find it**
  - TPRS - Link

(https://rptsvr1.tea.texas.gov/perfreport/tprs/tprs_srch.html)

    - STAAR → STAAR Performance → Advanced Math Pathways



Advanced Math Pathways Report (2022 and 2023)

Texas Education Agency

STAAR | Attendance and Graduation | Postsecondary | Profile | KG Readiness | TAPR | Accountability | Report Cards | Research and Analysis | Other Links | Search

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2022-23 Advanced Math Pathways

State

	School Year	State	African American	Hispanic	White	American Indian	Asian	Pacific Islander	Two or More Races	Special Ed (Current)	Special Ed (Former)	Continuously Enrolled	Non-Continuously Enrolled	Econ Disadv	EB/EL (Current & Monitored)
2023 Advanced Math Pathways															
All Students															
Students in Grade 8	2023	**418,145**	53,342	224,366	106,037	1,322	20,652	652	11,774	51,980	8,080	290,010	128,135	254,342	107,122
Students that have taken STAAR Algebra I EOC by the end of Grade 8	2023	**128,924**	10,851	61,259	38,875	308	13,372	194	4,065	3,602	2,366	99,165	29,759	58,520	26,527
STAAR Algebra I EOC participation rate by the end of Grade 8	2023	**31%**	20%	27%	37%	23%	65%	30%	35%	7%	29%	34%	23%	23%	25%
Achieved Meets Grade Level or Above on Grade 5 Math +															
Students in Grade 8 that achieved Meets Grade Level or Above on Grade 5 STAAR Math	2023	**1,932**	154	932	646	**	124	*	68	217	35	1,026	906	1,034	318
Students in Grade 8 that achieved Meets Grade Level or Above on Grade 5 STAAR Math and have taken STAAR Algebra I EOC	2023	**863**	45	314	358	**	100	*	42	16	19	619	244	256	85
STAAR Algebra I EOC participation rate for students that achieved Meets Grade Level or Above on Grade 5 STAAR Math	2023	**45%**	29%	34%	55%	50%	81%	*	62%	7%	54%	60%	27%	25%	27%
Achieved Masters Grade Level on Grade 5 Math +															
Students in Grade 8 that achieved Masters Grade Level on Grade 5 STAAR Math	2023	**1,103**	53	467	425	*	106	*	47	71	22	674	429	466	135
Students in Grade 8 that achieved Masters Grade Level on Grade 5 STAAR Math and have taken STAAR Algebra I EOC	2023	**679**	25	222	301	*	94	*	34	10	16	522	157	167	62
STAAR Algebra I EOC participation rate for students that achieved Masters Grade Level on Grade 5 STAAR Math	2023	**62%**	47%	48%	71%	*	89%	*	72%	14%	73%	77%	37%	36%	46%
2022 Advanced Math Pathways															
All Students															
Students in Grade 8	2022	**416,762**	52,075	221,990	107,798	1,231	19,958	570	11,050	47,652	7,729	295,815	120,947	246,725	100,539
Students that have taken STAAR Algebra I EOC by the end of Grade 8	2022	**128,243**	10,202	60,489	39,696	345	13,160	147	3,674	2,831	2,166	101,179	27,064	56,030	23,380
STAAR Algebra I EOC participation rate by the end of Grade 8	2022	**31%**	20%	27%	37%	28%	66%	26%	33%	6%	28%	34%	22%	23%	23%
Achieved Meets Grade Level or Above on Grade 5 Math															

As a result of the cancellation of STAAR in 2020 due to COVID-19, most 2023 grade 8 students do not have a Grade 5 STAAR Math score.