

Mathematics Programming and Curriculum Adoption Process Overview
Summary Report for the Board of Trustees
October 3, 2024

Background

District staff is beginning a two year project to update mathematics programming and curriculum K-8. This work is aligned to the District Strategic Plan 2027 through Goal Area 1 - Effective and consistent instructional practices that meet the needs of all students and Strategic Initiative 1a.3: Develop programs to increase opportunities for underrepresented students to reach high levels of academic success.

Curriculum adoptions are usually conducted according to the cycle of approved Curriculum Frameworks outlined by the California Department of Education. These cycles usually occur approximately every 8 years although the current cycles have been disrupted due to the COVID-19 pandemic. Approved curriculum lists are dependent on a state approved Framework as they contain evaluation criteria for the materials. California finally approved a revised Mathematics Framework in June of 2023 after a four year delay. The previous mathematics framework was adopted in 2013. The delay was due to a variety of factors including the Covid-19 pandemic and the need for multiple revisions due to feedback and criticism from stakeholders. This has interrupted the District's plan to update math programming and materials. MVWSD adopted Eureka Math K-8 in June of 2015. Math placement assessments and criteria have gone through a rigorous review since before the pandemic. An approved list of mathematics materials is not expected until November of 2025 and this timeline is subject to change.

Additional Information

Districts are able to adopt new materials without an approved list similar to the process used to adopt new English Language Arts materials in the 2023-24 school year. Based on a report from the *Center For Education Market Dynamics*, thirteen Districts in California have adopted new mathematics materials K-5 since 2020. Ed. Reports does have a list of mathematics materials that have been rated for both alignment to standards and usability which can be used as a starting point for work until an approved list from the California Department of Education.

Current Programming - Elementary

Core mathematics Instruction in grades K-5 is provided using *Eureka Math, A Story of Units*, Great Minds Publishing. The modules taught are:

- Counting and Cardinality (Kindergarten only)
- Operations and Algebraic Thinking (K-5)
- Number and Operations in Base Ten (K-5)
- Number and Operations - Fractions (3-5)
- Measurement and Data (K-5)
- Geometry (K-5)

Current Programming - Middle School

Core mathematics Instruction in grades 6-8 is provided using *Eureka Math, A Story of Units*, Great Minds Publishing. The 6-8 program builds on the K-5 program and provides a foundation for higher levels of math with a focus on the following:

6-8 Eureka Math, A Story of Ratios, Great Minds Publishing

- Ratios and Proportional Relationships (6, 7)
- Expression and Equations (6-8)
- The Number System (6-8)
- Statistics and Probability (6-8)
- Geometry (6-8)
- Functions (8)

Algebra 1: Eureka Math, A Story of Functions, Great Minds Publishing

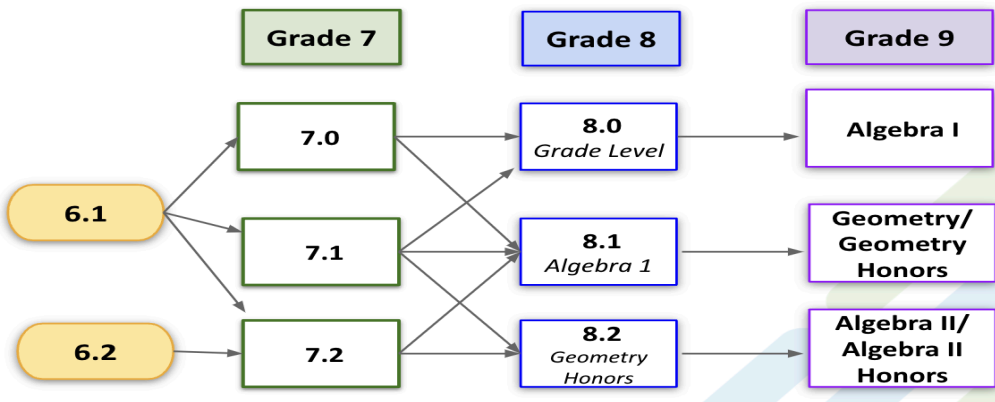
- Functions
- Algebra
- Statistics and Probability

Geometry: Eureka Math, A Story of Functions, Great Minds Publishing

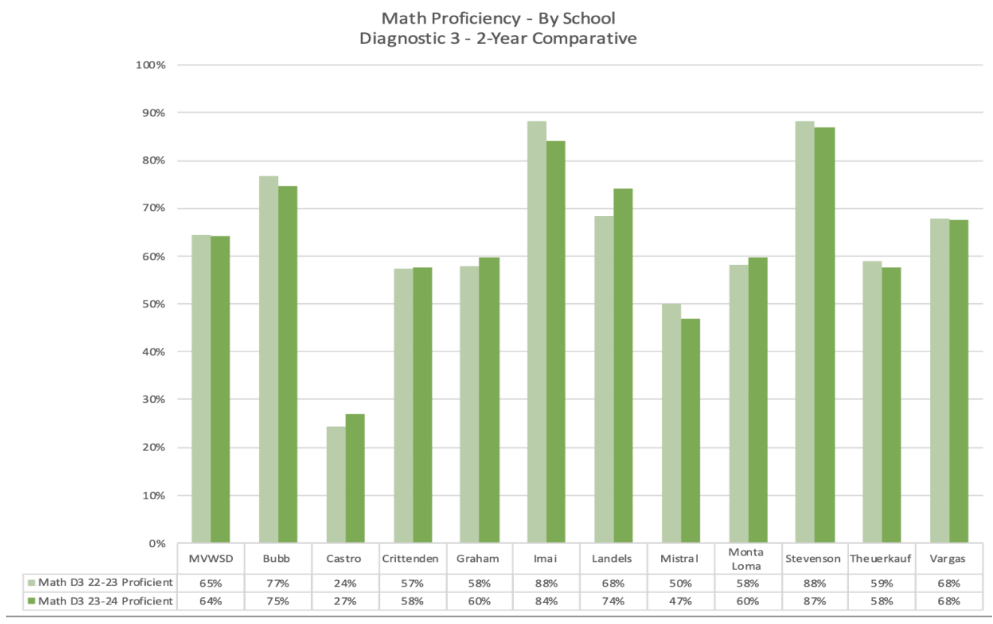
- Geometry

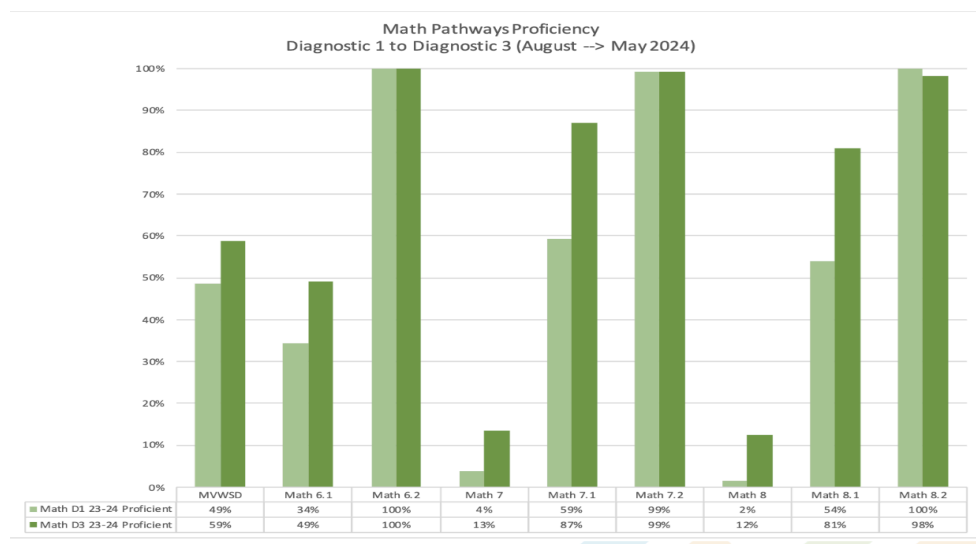
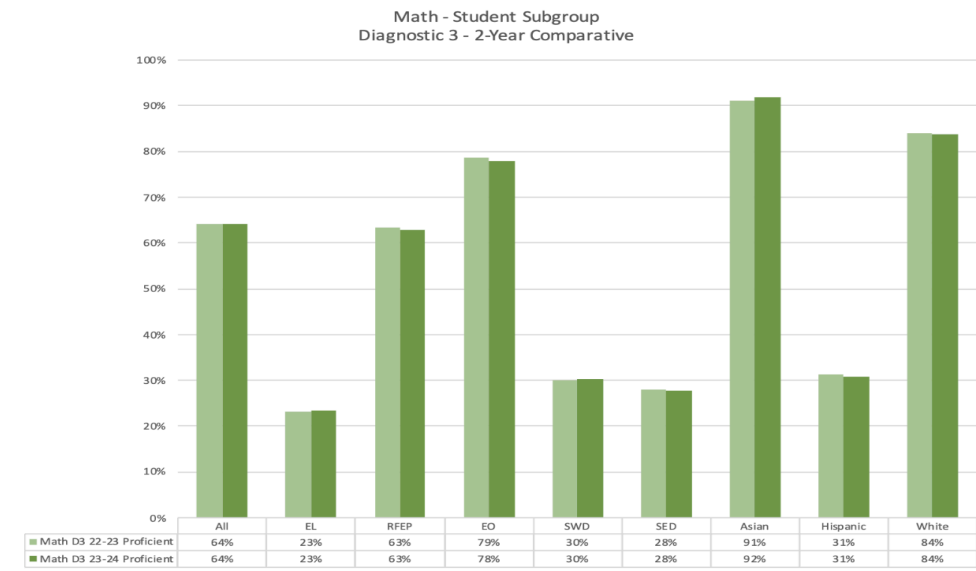
MVWSD currently offers a variety of math pathways for students in middle school. All pathways allow students to enter high school on a college preparatory or A-G track which if completed ensures eligibility for admission to the University of California (UC) and California State University (CSU). Students are initially placed into math pathways based on data from District i-Ready and state assessments given in May. All students have the opportunity to adjust their pathway in August based on data from i-Ready which includes accelerating to a more challenging pathway or moving to a course better suited to their abilities. In 2023-24, the district implemented a math appeals process to allow students and parents another opportunity to adjust their pathway. The math appeals team meeting provides a platform to discuss the best course of action for students who missed the accelerated or advanced placement criteria.. This year, we received 29 math appeals requests across both middle schools - Crittenden Middle School had 13 appeals requests and Graham Middle School had 16 appeals requests. The Math Appeals Team at each of the middle schools met with the parents and the students and all but 4 requests were approved. Families have been very appreciative of the process and the opportunity to discuss student progress from multiple staff members/teachers before a decision for math placement is finalized.

Middle School Math Pathways



2023-24 i-Ready Mathematics Results





2023-24 Pathway Enrollment

Student Group	.0 Grade Level	.1 Accelerated	.2 Advanced
Asian	10%	30%	61%
Hispanic/Latino	75%	21%	4%
White	17%	44%	40%
SED	74%	21%	5%
EL	93%	7%	0%

2023-24 Pathway Enrollment by Feeder School

Feeder School	.1 Accelerated	.2 Advanced
Bubb	13%	22%
Castro	8%	1%
Imai	15%	25%
Landels	15%	13%
Mistral	14%	4%
Monta Loma	6%	6%
Stevenson	14%	17%
Theuerkauf	6%	2%
Vargas	9%	10%

Data Summary

Results from i-Ready Diagnostic 3 show that overall District math results are flat with only 64% of students proficient at the end of the 2023-24 school year. Math proficiency varies across school sites with percentages ranging from 27% to 87%. Large gaps exist in proficiency between student groups especially for traditionally underrepresented groups (Socio-Economically Disadvantaged, Hispanic, and English Learners). Proficiency for students in advanced pathways (.1 and .2) is high. Additionally, not all student groups are accessing advanced math pathways and enrollment in advanced math pathways varies by feeder school.

Considerations

All students deserve a strong mathematics program which provides opportunities for acceleration if desired. Currently, large achievement gaps that were exacerbated during the pandemic persist and not all groups of students are accessing accelerated math pathways. Mathematics materials and programming need to be updated and pathways, placement assessments and placement criteria need to be thoroughly reviewed and possibly adjusted. The i-Ready instructional platform is no longer supported by the District and the District still uses i-Ready results for pathway placement in middle school. Elementary math instruction and programming lays a foundation for success in higher levels of math starting in middle school. Since elementary teachers are responsible for a majority of subjects, they need time to learn the new English Language Arts curriculum before they can learn a new math curriculum. Robust and ongoing professional development will be necessary in order to improve outcomes for students even with programming and curricular updates.

Mathematics Programming and Curriculum Adoption Process Overview

District staff is beginning at least a two year process to update mathematics programming, pathways and placement and curriculum. The exact length of the process could be determined

by the adoption of an approved list of materials by the California Department of Education - now slated for November 2025

In year 1 (2024-25 school year) staff will focus on understanding the issues related outcomes in math and seeking stakeholder input. Staff will focus on researching root causes of achievement gaps in math, well understanding the inequities in enrollment in pathways in middle school and explore potential solutions to support underrepresented student groups. Staff will also continue researching placement and pathway options used by other Districts. A key component of the work done in 2024-25 will be seeking stakeholder (student, staff and parent) input related to mathematics curriculum, instruction, pathways assessments and placement. Staff will update the Board of Trustees and seek direction based on information collected in spring of 2025.

In year two of this process, (fall 2025) the District will convene a Mathematics Programming and Curriculum Adoption Committee. The committee will be composed of a majority of teachers as well as interested parents and District staff. The committee will work to review, pilot and recommend new materials for adoption pending release of the approved list of materials by the CDE and will communicate progress and seek stakeholder input as needed. The committee will also potentially recommend changes to pathways, assessments and criteria for placement in middle school. Programming changes and curriculum recommendations will be presented to the Board of Trustees in Spring of 2026 with anticipated implementation in the 2026-27 school year.

Questions for the Board

Staff is seeking additional input from Trustees as this process begins on the following:

1. What are trustees' thoughts on waiting for an approved list of materials from the California Department of Education (further delay the adoption of new materials by 6 months or one year?)
2. What else should staff consider as we begin this process?
3. What is missing or needs to be included?

Next Steps

Staff will begin working through the deliverables for year 1 pending input collected from the Board of Trustees on October 3rd. Throughout year 1 the focus will be on collecting and analyzing data and input as well as communicating progress regularly.