

Mathematics HQIM Adoption

Melissa Mitchem

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Strategic Plan 2023-2028

Priority 1 - Increase Academic Achievement Goals

All CCS learners will graduate equipped with a plan for the future.

All CCS learners will have access to rigorous, inclusive, and relevant learning experiences.

All CCS learners will demonstrate mastery in reading and math, leading to the elimination of achievement and opportunity gaps.

Strategy

Strategy 8: Provide a coherent and rigorous PK-12 math program that is fully aligned to the VA standards of learning, including a targeted approach to fluency and number sense and differentiated to meet of all learners.

Structure and Objectives

1. Context
2. Process/Timeline
3. Recommendations
4. Estimated Costs

Context

The 2024-2025 school year was the final year of our previous math curriculum adoption cycle.

The Virginia Board of Education approved a list of mathematics textbooks and High-Quality Instructional Materials (HQIM) aligned to the 2023 Standards of Learning for Mathematics at its March 2025 meeting.

Our current elementary math curriculum, Math Investigations 3, was not put forth for approval by the publisher.

Process: Setting Our Criteria

April-May 2025:

The CCS Math Leadership Team

- developed a Theory of Change
- created math curriculum look-fors
- narrowed the list of approved instructional materials to three for secondary and three for elementary
- chose two HQIM for pilots at CMS and CHS

Process: Adoption Committee

August 2025:

Educators, families, and community members were invited to join math specialists on the Adoption Committee for either elementary or secondary high-quality instructional materials.

September-October 2025:

- Fourteen secondary and twenty-two elementary members were onboarded.
- Committee members reviewed and scored each HQIM.
- Vendors were invited to present to educators.

Process: Expanding Our Review

November 3, 2025:

- Secondary math teachers attended sessions on the two piloted programs.
- Three vendors presented to 99 elementary teachers.

November-December 2025:

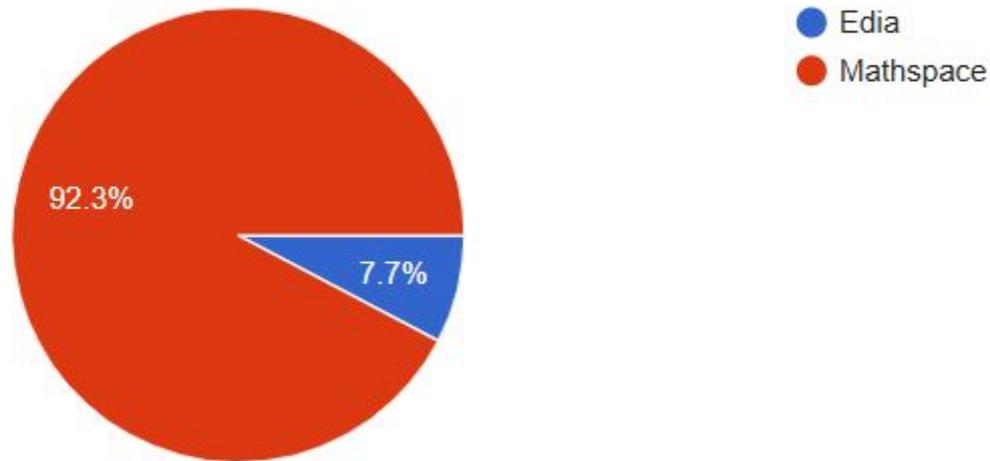
- Secondary math teachers reviewed the HQIM options in their department meeting before submitting their preference.
- More than 100 elementary teachers completed a focus review protocol with their math specialist in grade-level PLCs. Educators reviewed physical and online resources for each HQIM before submitting their preference.

Secondary Math Preferences

Mathspace is strongly preferred by secondary math teachers and specialists.

My first choice for secondary HQIM is...

26 responses



Secondary Math HQIM Recommendation

Mathspace is recommended for adoption as our secondary math HQIM based on the following:

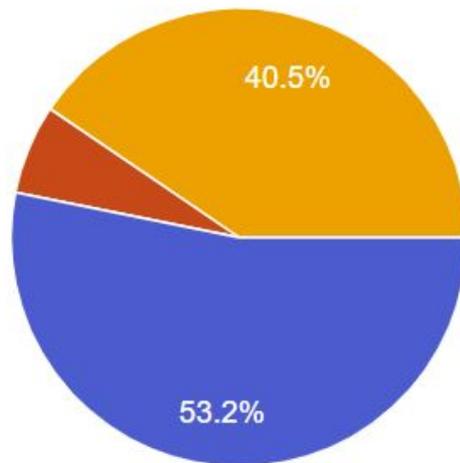
- Mathspace is adaptable and provides extensive resources aligned to the rigor of the 2023 Mathematics Standards of Learning.
- Strong educator and math specialist preference
- Positive experience with our pilot at Charlottesville Middle School
- Mathspace has been adopted by more than 50% of Virginia school divisions.

Elementary Math Preferences

Elementary educators favored Bridges in Mathematics and STEMscopes Math

My first choice for elementary HQIM is...

111 responses



Elementary Math Preferences

December 2025: The Adoption Steering Committee reconvened to analyze the preference data by grade level.

- **Kiddom** was eliminated from consideration.
- **Bridges:** Preferred for early elementary due to its highly visual, hands-on approach that builds strong conceptual understanding and fluency (through components like Number Corner and WorkPlaces).
- **STEMscopes:** Favored by upper elementary for its inquiry-based framework and real-world scenarios (phenomena) that explicitly support advanced mathematical reasoning and problem solving.

Alignment to 2023 Math Standards of Learning

Bridges is highly-aligned in early elementary

- Kindergarten includes 93.4% of standards
- First grade includes 89% of standards
- Second grade includes 65% of standards
- Third grade includes 73% of standards

STEMscopes is highly-aligned in 4th & 5th grade

- Fourth grade includes 83% of standards
- Fifth grade includes 76% of standards

Bridges in Mathematics

- Bridges approach to building conceptual understanding aligns with our current beliefs and practices.
- The program incorporates visual models and hands-on manipulatives to support active problem solving.
- Number Corner promotes skill building centered around the classroom calendar, reinforcing number sense.
- Feedback from school divisions who implement Bridges is overwhelmingly positive. In particular, instructional leaders praise how the program builds mathematicians.

STEMscopes Math

- STEMscopes is built around the 5E Lesson Model (Engage, Explore, Explain, Elaborate, Evaluate).
- The Engage phase of the 5E model provides lesson hooks (phenomena) to increase relevance and authentic engagement.
- Grounding the learning in a real world context encourages students to discover the need for a mathematical concept in the Explore phase of the model. This promotes critical thinking and productive struggle.
- CCS teachers currently use resources from STEMscopes in 4th and 5th grade Science.

Elementary Math HQIM Recommendation

We recommend a dual curriculum model:

- **Bridges in Mathematics for Kindergarten through 3rd grade**
- **STEMscopes Math for 4th and 5th grade**

Overall Cost Estimate (2026-2030)

Estimated total cost for Elementary and Secondary HQIM to be paid from the division textbook fund: **\$489,339.96.**

A 5-year adoption will allow us to review new HQIM based on the anticipated 2030 Mathematics Standards of Learning.

Secondary Cost Estimate

Mathspace

- Digital access for teachers and students (includes print option), professional development, and AI-powered digital tutor.
- Sixth grade - Algebra II
- **\$169,905.66** for 5 years

Elementary Cost Estimate

Bridges (K-3)

- Classroom Packages, including required manipulatives
- Student Books*
- Educator site access plus printed manuals
- \$171,455.75 Year 1
- \$18,960 Years 2-5*
- **\$190,415.75 Total**

STEMscopes (4&5)

- Fluency and Foundation Kits
- Student Books
- Online access and physical manuals for teachers
- **\$129,018.55 Total**

Next Steps

- **January 2025:** Physical samples of recommended HQIM will be available for community review from January 9 through January 30.

Elementary and secondary materials will be on display at the Division Annex (1400 Melbourne Road). Digital information is available on our homepage.

Feedback from this review period will be shared with the School Board.

- **February 5, 2025:** Anticipated School Board approval of HQIM. Implementation planning will begin following approval.

Comments/Questions

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