

Recommendation for High School Math Curriculum Adoption

Vernon Walton, Ed.D., Director of Secondary Education
Lise Needham, TSA Secondary Math Coach
Lori MacDonald - Teacher

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Presentation Overview

- Committee Process
- Adoption Goals
- Our Recommendation
- Board Discussion

Committee Work: 2022-23

- Committee of math teachers, special education teachers, site administrators, and district math staff
- Developed rubrics to refine criteria
- Reviewed EdReports and online resources to identify candidates
- Identified five curricula for further review: Carnegie Learning, Open Up Resources (MVP), Reveal Math, CPM, Big Ideas
- After materials review and publishers presentations chose to pilot CPM and Open Up Resources

Committee Work: 2023-24

- 14 teachers, at AHS, EHS, Lincoln, and Wood, piloted both curricula over the course of the full year
- Significant commitment for teachers: Summer trainings, collaboration with course teams, monthly committee meetings
- Research comparing the Integrated Math 1, 2, 3 and the traditional math (AGA) pathways
- Interviews of math leaders in other districts using CPM
- Surveys of teachers and students

Recognizing Pilot Teachers

- Alan Bare - AHS
- Kevin Blagrove - Wood
- Christian Bucknell - AHS
- Leah Cole - EHS
- Chelsea Cross - Lincoln
- John Denery - EHS
- Brianna DeRobbio - AHS
- Elle Evangelista - AHS
- Yael Herrera Villar - EHS
- Mary Jackson - AHS
- Bora Jung - AHS
- Lori MacDonald - EHS
- Pascal Purro - AHS
- Sean Ward - EHS
- Vanessa Yonan - EHS

Adoption Criteria

- Core instructional experience
- Equity, relevance, and supports for all students
- Student experience
- Teacher experience
- Assessments and data

Proposal

1. Adopt CPM Curriculum for Integrated Math 1, 2, and 3
2. Provide Delta Math platform for supplemental practice and support
3. Implement comprehensive professional learning and support plan for teachers

College Preparatory Math (CPM)

- California non-profit, providing common core instructional materials and professional development since 1989
- Team-worthy, problem-based instructional materials, and comprehensive professional development
- Research-based teaching strategies focus on how students best learn and retain mathematics

CPM's Three Pillars of Learning

1. **Collaborative Learning:** Students participate more fully when they construct mathematical ideas with peers in inclusive classrooms
2. **Problem-based Learning:** Students develop understanding and ownership of mathematical ideas when they grapple with problems
3. **Mixed Space Practice:** Students become increasingly proficient and retain a higher level of understanding when they experience mathematical problems mixed within and spaced across assignments

CPM Supports AUSDs Math Instructional Vision

- Students engage with peers in problem-based lessons structured around core ideas
- Teachers guide the lesson to support students reasoning and problem solving through mathematical discourse
- Teachers support students in connecting ideas, connecting alternative mathematical representations, and synthesizing understanding
- Practice and assessment of concepts and procedures are spaced over time to support depth and mastery

CPM's Curriculum

Proved itself across our adoption criteria.

- Well-curated lessons with depth and breadth of options to support all students
- Supports AUSD's vision of students' classroom experience
- Provides excellent planning resources for teachers
- Strong assessment suite

CPM's Teacher and Program Supports

- Professional Learning for teachers and administrators
 - Research-based instructional practices
 - Math content
 - Flexible: in person, virtual cohorts, on demand
- Implementation support visits for 2 years
- Site-based leadership program for math coach and lead teachers

Supplemental Skills Practice and Supports

Provide Delta Math as online platform for supplemental skills practice and support. Provides students with:

- Immediate feedback on practice problems
- Instructional videos
- Standards aligned
- Clever integration

Professional Learning Plan

- Lead Teacher Model: For each course will develop model materials and assessments, maintain scope and sequence and calendars, and facilitate regular course level PLCs
- Teacher time for CPM training, during the Summer and school year
- Teacher time for ongoing collaboration and planning

Board Discussion