

PROPOSED INTEGRATED MATHEMATICS TEXTBOOK ADOPTION

Information Report No. 6

Date: May 15, 2018

Winfred Roberson, Superintendent

Dr. Kelly King, Assistant Superintendent, Educational Services





Local Control Accountability Plan (LCAP) Priorities

1 Maximize Student Achievement

- 1-1: Improve **academic achievement** for all students.
- 1-2: Ensure all students are **college and/or career ready** upon graduation.

2 Create a Culture of Learning

- 2-1: Support the **social, emotional, and physical needs** of all students.
- 2-2: Provide services and conditions that **support student learning**.
- 2-3: Provide teachers with **tools and training** to implement State academic standards.
- 2-4: Provide students with access to **support interventions** and **instructional technology** for learning.

3 Increase Engagement

- 3-1: Create a **positive environment** and **opportunities** for students to **connect** with their school and community.
- 3-2: **Engage families and community** to support student learning.



Background

- Information Items have been presented to the Board of Education on this topic on April 17 and May 1, 2018
- Board members requested more information about the administrative regulations regarding curriculum adoption and more information about College Preparatory Mathematics (CPM)



Administrative Regulation, AR 6141

Recommendations for curriculum should be based on:

- Analysis of effectiveness of the existing District curriculum
- Alignment of the proposed curriculum with expectations established by the Board and the State Board of Education
- Evidence of proven effectiveness of the proposed curriculum in raising student achievement
- Applicability and accessibility of the curriculum to all students
- The estimated cost to purchase, adapt, and/or develop the curriculum
- Resources required to implement the curriculum
- The extent to which instructional materials meet criteria established by law and the District
- Any potential impact on other parts of the educational program



Administrative Regulation, AR 6141

Procedures for the review and selection of instructional materials/textbooks:

1. Curriculum Study Committee reviews eligible instructional materials/textbooks
2. Committee representatives share selection criteria with school staff
3. Staff reviews proposed instructional materials/textbooks
4. Committee representatives solicit feedback from school sites, leadership teams, parent advisory groups and public review
5. Each secondary school is to have an opportunity to be represented on the committee with each vote based on the number of sections offered at that site
6. Curriculum Study Committee recommends instructional materials/textbook adoption to Secondary Education Council (secondary principals)
7. Secondary Education Council recommends instructional materials/textbook adoption to the Superintendent
8. Instructional materials/textbook adoption is approved by Board of Education



Student Pre- and Post-Test Comparisons

	% of Change CPM	% of Change HMH
HS Integrated I	63%	48%

Teacher Analysis of Programs (Average Results on a Five Point Scale)

	Alignment to Content Standards	Alignment to SMPs	Planning, Support & Materials	% of Teachers Responding to Survey
HMH	3.6	3.3	3.2	73%
CPM	3.9	3.7	3.4	62%



Pilot Teacher Votes

	Integrated I-III
CPM	18
HMH	19



Pros and Cons of Programs

CPM

- Pros
 - Student engagement
 - Strongly aligned to CA State Standards & SMPs
 - Varying DOK levels
 - Spiraling of concepts
- Cons
 - Group work challenging
 - Challenge to assess mastery
 - Not enough practice problems

HMH

- Pros
 - Teacher directed, flexibility
 - Online and teacher resources
 - More practice problems
 - Traditional arrangement of concepts/standards
- Cons
 - Questions about alignment to standards
 - Lack problems at varying DOK levels
 - Traditional Math program

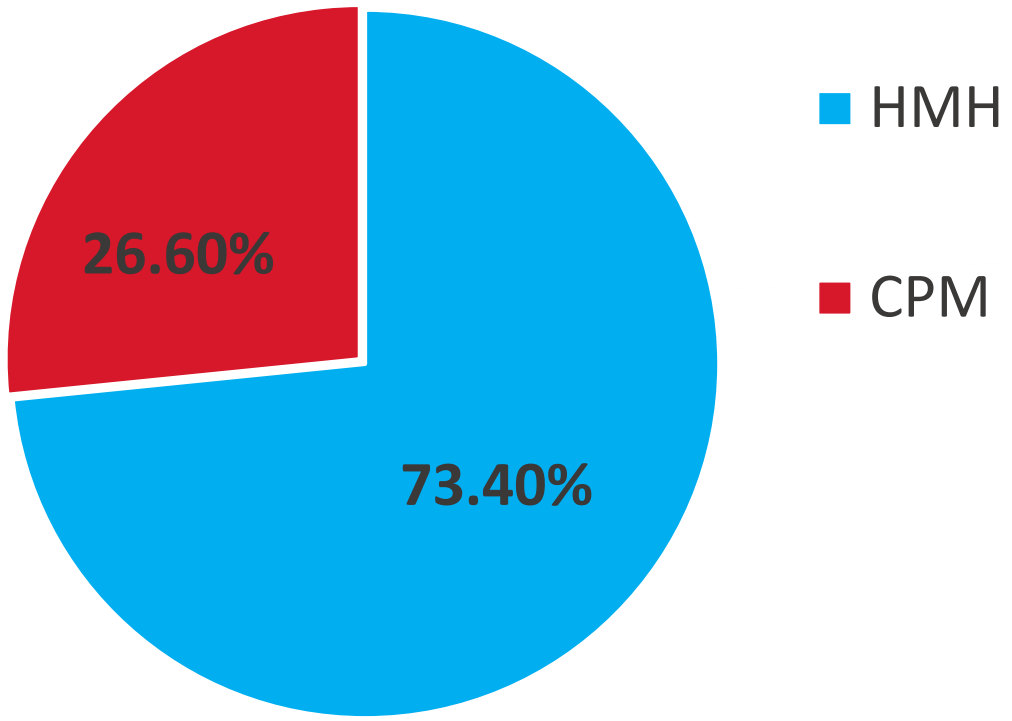


Recommendations from Secondary Education Council (Secondary Principals)

	Integrated I-III	
	Middle School Principals	High School Principals
CPM	2	4
HMH	1	1







Parent Feedback

- Parent electronic survey
 - April 19 – 24





Research Evaluating Both Programs (EdReports.org)

Title (2)	Focus & Coherence	Rigor & Math Practices	Usability
<p>CPM Integrated CPM Educational Program (CPM)</p> <p>Show Report</p>	<p> 15/18</p>	<p> 16/16</p>	<p> 33/36</p>
<p>HMH Integrated Houghton Mifflin Harcourt</p>	<p> 9/18</p>	<p> NR</p>	<p> NR</p>



Comparative Costs

	Integrated I-III	
CPM	\$85/student	Teacher Editions, Student textbooks, manipulatives, professional development (3 years), online resources
HMH	\$125/student	Teacher Editions, Student Textbooks, Skills workbooks, online resources



Options Considered for Curriculum Adoption

- **Single adoption of HMH with supplementary materials**
- **Single adoption of CPM with supplementary materials**

- **Either program would need to be supplemented to meet student and teacher needs.**



Superintendent Recommendation/Next Steps

- Single adoption
- Three-year adoption (2018/19, 2019/20, 2020/21)
- CPM adopted for all Integrated I, II, and III courses
- Committee of math teachers brought together to identify supplementary materials
- Comprehensive professional development over a period of three years
- Series of parent/guardian information meetings at each high school – focus on how to help students at home



Questions?