

SUSD Math



**Instructional Materials Updates
and Recommendations for
Adoption
and
Program/Process Improvements**

**SUSD Governing Board Meeting
April 10, 2012**

Updates and Improvements



- **HS/Secondary Math**
 - Course Trajectory
 - Instructional Materials Updates and Recommendations for Adoption
- **Middle Level Math**
 - Course Trajectory
 - Exchange of Instructional Materials
- **Elementary Level Math**
 - Exchange of Instructional Materials



Secondary Math Course Trajectory

HSPG Committee 2011-12

SUSD High School Math Courses

(Trajectory of courses revised April, 2012)

Year 1	Year 2	Year 3	Years 4 and 5		Year 6
			Please see the HSPG for course pre-requisites and recommended sequences.		
Algebra 1 (Algebra Support course is available in conjunction with Algebra I, as an elective)	Geometry (Geometry Support course is available in conjunction with Geometry, as an elective) Geometry-Trig Honors	Algebra II (Algebra II Support course is available in conjunction with Algebra II, as an elective) Algebra II Honors * AIMS Math Standards (See note below.)	-- Note: All courses at this level need Algebra II as a pre-requisite, except those "starred." Algebra III with Trig Algebra III Dual Enrollment Trigonometry/Pre-Calculus Trigonometry/Pre-Calculus Honors Trigonometry/Pre-Calculus Dual Enrollment AP Computer Science Business Math (Financial Math) IB Math SL IB Math HL - I IB Math Studies * AIMS Math Standards (See note below.)	-- Note: All courses at this level need Trig/Pre-Calc as a pre-requisite, except AP Stats. Brief Calculus AP Calculus AB AP Calculus BC AP Statistics IB Math HL - 2	-- Calculus III requires AP Calc BC as a pre-requisite. Calculus III

Note:

- Courses offered as Dual Enrollment are affiliated with Scottsdale Community College.
- AIMS Math Standards is an intervention course for juniors and seniors who haven't passed AIMS. The course counts as a math course for graduation requirements but is NOT recognized as a required math course for universities.
- Students are more successful in Honors level classes if they have completed the Honors class pre-requisite. Students that did not take Geometry-Trig Honors but are interested in taking other Honors level courses in math should consult with their teachers and guidance counselors to learn if they would benefit from taking an extra class or receiving additional support prior to beginning an Honors level course.

SUSD High School Math Courses

(Trajectory of courses revised April, 2012)

Year 1	Year 2	Year 3	Years 4 and 5		Year 6
<p>Algebra 1</p> <p>(Algebra Support course is available in conjunction with Algebra I, as an elective)</p>	<p>Geometry</p> <p>(Geometry Support course is available in conjunction with Geometry, as an elective)</p> <p>Geometry-Trig Honors</p>	<p>Algebra II</p> <p>(Algebra II Support course is available in conjunction with Algebra II, as an elective)</p> <p>Algebra II Honors</p> <p>* AIMS Math Standards (See note below.)</p>	<p style="color: red;">Please see the HSPG for course pre-requisites and recommended sequences.</p> <p style="color: blue;">** Note: All courses at this level need Algebra II as a pre-requisite, except those "starred."</p> <p>Algebra III with Trig</p> <p>Algebra III Dual Enrollment</p> <p>Trigonometry/Pre-Calculus</p> <p>Trigonometry/Pre-Calculus Honors</p> <p>Trigonometry/Pre-Calculus Dual Enrollment</p> <p>AP Computer Science</p> <p>Business Math (Financial Math)</p> <p>IB Math SL</p> <p>IB Math HL - I</p> <p>IB Math Studies</p> <p>* AIMS Math Standards (See note below.)</p>	<p style="color: blue;">** Note: All courses at this level need Trig/Pre-Calc as a pre-requisite, except AP Stats.</p> <p>Brief Calculus</p> <p>AP Calculus AB</p> <p>AP Calculus BC</p> <p>AP Statistics</p> <p>IB Math HL - 2</p>	<p style="color: blue;">** Calculus III requires AP Calc BC as a pre-requisite.</p> <p>Calculus III</p>

Note:

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Secondary Math Textbook Adoption Committee -- History



Spring 2011 – Recommendations:

Trigonometry/Precalculus
AP Calculus
AP Statistics
Calculus 3/Differential Equations
Brief Calculus

Paused – Spring 2011:

Common Core Dependent Courses:

Algebra I, Geometry
Algebra II

Future 4th Year Math Course(s)

Secondary Math Textbook Adoption Committee 2011-12



**Members of the HS Math Adoption
Committee – Winter, 2012**

Secondary Math Textbook Adoption Committee 2011-12

Recommendations

SUSD High School Math Textbooks

Course	Book Title	Publisher	Author	Edition	ISBN	Adoption Status
Algebra 1	Algebra 1	Holt McDougal	Burger	2012	978-0-547-64703-6	Recommended \$177,902.10
Geometry	Geometry	Holt McDougal	Burger	2012	978-0-547-64709-8	Recommended \$141,439.32
Algebra 2	Algebra 2	McDougal Littell	Larson, Boswell, Kanold, Stiff	2004	0-618-25020-4	Pause (Emphasis on Pathways Partnership with ASU)
Trig/ PreCalculus	PreCalculus Enhanced with Graphing Utilities	Pearson	Sullivan, Sullivan	5 th 2009	978-0-13-135694-8	Complete In schools
Algebra 3/Trig	Algebra & Trigonometry	Pearson	Blitzer	4 th 2010	0-13-136218-6	Complete In schools
Geometry/Trig H	Geometry for Enjoyment & Challenge	McDougal Littell	Rhoad, Mileuskas, Whipple	2000	0-86609-965-4	Pause
Algebra 2 H	Algebra and Trigonometry	Holt McDougal	Larson, Hostetler	7 th 2007	978-0-538-76814-6	Pause (Emphasis on Pathways Partnership with ASU)
Trig/PreCalculus Honors	PreCalculus, Graphical, Numerical Algebraic	Pearson	Demana, Waits, Foley, Kennedy	8 th 2011	0-13-136906-7	Complete In schools
AP Calculus	Calculus: Early Transcendental Functions	Holt McDougal	Larson, Edwards	5 th 2011	978-0-538-49717-6	Complete In schools
AP Statistics	The Practice of Statistics	Bedford, Freeman & Worth Worth	Starnes, Yates, Moore	4 th 2011	1-4292-4559-X	Complete In schools
AIMS Standards Basics,	AIMS Computer Tutor	Laupus Soft				Complete In schools
Financial Math	Financial Algebra	Genver, Sgroi	Cengage Learning	2011	978-0-538-44967-0	Recommended \$23,400.00
Calculus 3	Vector Calculus	Freeman	Marsden, Tromba	5 th	978-0-716-74992-9	Complete In schools
Differential Equations	Differential Equations and Linear Algebra, 3/E	Pearson	Edwards, Penney	2010	078-0-136-05425-2	Complete In schools
Finite Math						Pause
AP Computer Science	Java Concepts for AP Computer Science	Wiley	Horstman	5th	978-0-470-57827-8	Recommended \$4,677.05
Brief Calculus	Calculus with Applications, Brief	Pearson	Lial, Greenwell, Ritchey	9th 2008	978-0-321-42274-3	Complete In schools

- 2011-12 recommendations for high school instructional materials for selected course titles total \$347,418.47.
- Course total numbers may change slightly with enrollment for the 2012-2013 school year.
- Shipping and handling changes have not been included with totals.
- Supplemental materials for Algebra I, Geometry, and Algebra II Support courses currently recommended by Curriculum Specialists, Department Chairs and/or Leadership Team Members include: ALEKS, Adaptive Curriculum and Newton Math Readiness
- Funding allocated from the Curriculum Capital Override Budget of \$1,444,286.00 will support Math Adoption.

SUSD High School Math Textbooks

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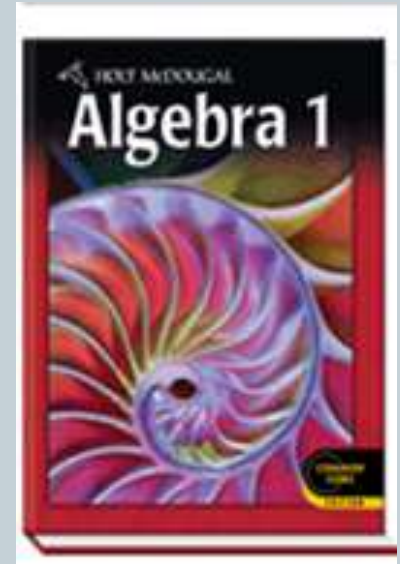
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- Funding allocated from the Curriculum Capital Override Budget of \$1,444,286.00 will support Math Adoption.

High School Math Materials



Benefits to Students and Teachers

- Algebra I and Geometry students and teachers will have access to updated curriculum instructional materials and *online* resources for the first time.
- Materials are aligned to Common Core Standards with real world applications.
- Financial Math will provide a challenging, relevant, 4th year math course for our high school students.



Other Recommendations – High School



Menu of opportunities for students to receive support to ensure success in Algebra I, Geometry, and Algebra II

A full class period of math support offered as an elective credit (ex. Alg I Support course)

On-line support course as an elective credit -- concurrently with the class

On-line support class in the summer before the class – as elective credit

Middle Level Math – Course Trajectory

SUSD Middle Level Math Course and Text Information -- 2011-12 and 2012-2017

Middle Level Math Course 2011-12	Standards 2011-12	Text title 2011-12	Text Color 2011-12	Changes: For 2012-2017	Standards 2012-17
6 th Grade	6 th grade standards	Math Connects - Course 1	Red	6 th Grade Math (6 th Grade – Course 1 CCS Text)	6 th grade standards
6 th Grade Advanced	7 th grade standards	Math Connects - Course 2	Blue	6 th Grade Advanced Same as 7 th Grade Math (7 th Grade – Course 2 CCS Text)	7 th grade standards
7 th Grade	7 th grade standards	Pre-Algebra	Purple	7 th Grade Math (7 th Grade – Course 2 CCS Text)	7 th grade standards
7 th Grade Advanced	8 th grade standards	Pre-Algebra	Purple	7 th Grade Advanced Same as 8 th Grade Math (8 th Grade – Course 3 CCS Text)	8 th grade standards
8 th Grade	8 th grade standards	Course 3	Green	8 th Grade Math – (8 th Grade – Course 3 CCS Text)	8 th grade standards
8 th Grade Advanced	Algebra I standards	Algebra I	Aqua/blue book (Used 10-11)	Algebra Course (eligible for HS credit) New HS Alg I Text -- 2011-12 adoption)	Algebra I standards
In rare circumstances – some students that have been accelerated may take Geometry or Geo/Trig Honors in middle school.				Geometry (HS Text) Geo/Trig H (HS Text)	Geometry standards Geo/Trig standards

New Texts with Common Core Standards within them will be available at the start of the 2012-2013 school year.

All middle level students will have their own text.

All supporting materials for teachers are web-based (not software).

SUSD Middle Level Math Course and Text Information -- 2011-12 and 2012-2017

Middle Level Math Course 2011-12	Standards 2011-12	Text title 2011-12	Text Color 2011-12	Changes: For 2012-2017	Standards 2012-17
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6 th Grade Advanced	7 th grade standards	Math Connects - Course 2	Blue	6 th Grade Advanced Same as 7 th Grade Math (7 th Grade – Course 2 CCS Text)	7 th grade standards
7 th Grade	7 th grade standards	Pre-Algebra	Purple	7 th Grade Math (7 th Grade – Course 2 CCS Text)	7 th grade standards
7 th Grade Advanced	8 th grade standards	Pre-Algebra	Purple	7 th Grade Advanced Same as 8 th Grade Math (8 th Grade – Course 3 CCS Text)	8 th grade standards
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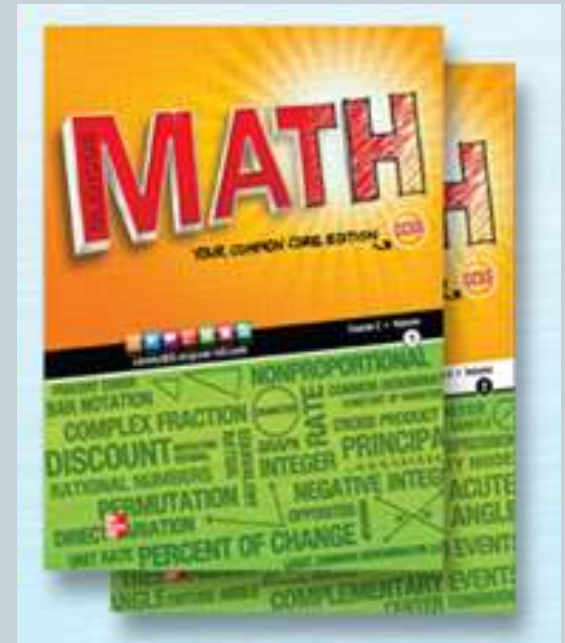
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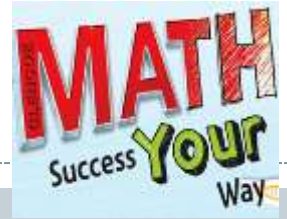
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Middle Level Level Math

In December 2011, a committee of SUSD grades 6-8 teachers unanimously recommended the exchange of the current 2009 copyright of the Glencoe books for their common core editions, the company's instructional materials program developed to teach the CCS and the mathematical practices within them -- at the middle level (grades 6-8).



Middle Level Math



Benefits to Students

- Consumable textbook for each and every student
- Integrated within each lesson are opportunities for students to learn the content standards and a focus on the practice standards
- Rich digital resources and apps, including student edition
- Academic vocabulary, foldables, and problem solving lessons
- Hands-on learning connected with real world learning experiences
- Yearly editions will include all updates/revisions/corrections to the texts, each year

Benefits to Teachers

- Written specifically to the CCS
- Includes focus on the practice standards
- Hard copy TEs, and all supplementals are available online for personalization and differentiation
- Assessments for computation, problem solving skills and vocabulary -- formative, summative and diagnostic
- Annual updates to online resources will include assessments and prep materials that will become more robust and aligned with the CCS

Elementary Level Math



In March 2012, a committee of K-5 teachers representing 16 SUSD schools unanimously recommended the exchange of the current 2009 copyright of Math Connects for the Math Connects common core edition (called MyMath), the company's instructional materials program developed to teach the CCS and the mathematical practices within them.

Elementary Level Math



Benefits to Students

- Consumable textbook for each and every student
- Integrated within each lesson are opportunities for students to learn not only the content standards, but a focus on the practice standards
- Rich digital resources and apps, including student edition
- Academic vocabulary, foldables, and problem solving lessons
- Hands-on learning connected with real world learning experiences

Benefits to Teachers

- Written specifically to the common core standards, not merely correlated to them
- Includes focus on providing opportunities for the practice standards
- Hard copy TEs, and all supplementals available online for personalization and differentiation
- Assessments for computation, problem solving skills and vocabulary -- formative, summative and diagnostic

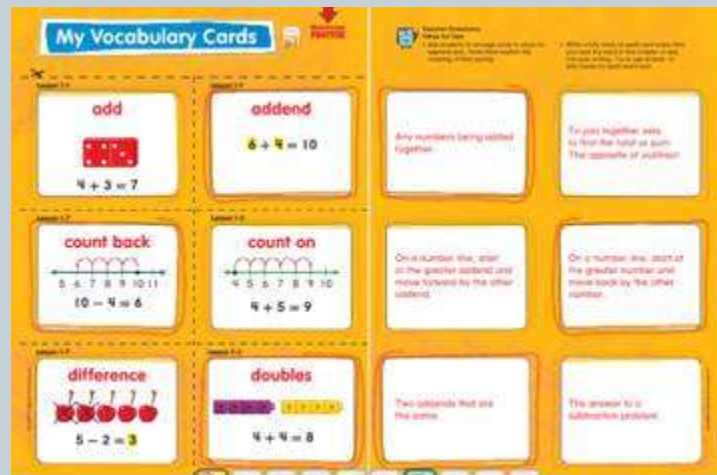
Elementary Level Math



Included in
Each Chapter:



Essential
Question



Student Vocab
Cards



Common
Core
Content
and
Practice
Standards

SUSD Common Core Timeline – Math



Scottsdale *Unified* School District

SUSD Math Common Core Roll-Out Plan

Phase 2	2011 – 2012
Phase 3	2012 – 2013
Phase 4	2013 - 2014

Domain	Kindergarten	1 st grade	2 nd grade	3 rd grade	4 th grade	5 th grade	6 th grade	7 th grade	8 th grade
Counting and Cardinality		No Domain standards at these grade levels							
Operations and Algebraic Thinking							No Domain standards at these grade levels		
Number & Operations in Base Ten							No Domain standards at these grade levels		
Number & Operations – Fractions	No Domain standards at these grade levels						No Domain standards at these grade levels		
Measurement and Data							No Domain standards at these grade levels		
Geometry									
Ratios and Proportional Relationships	No Domain standards at these grade levels								No Domain standards at this grade level
The Number System	No Domain standards at these grade levels								
Expressions and Equations	No Domain standards at these grade levels								
Functions	No Domain standards at these grade levels								
Statistics and Probability	No Domain standards at these grade levels								

Supporting SUSD Teachers SUSD Professional Development

**SUSD
SUMMER INSTITUTE**

Monday, June 4th, 2012

Morning Sessions:

Myrlin Hepworth
Teaching Artist, Poetry Writer and Performer

Keynote: 8:30—9:30 a.m.
"The Importance and Value Surrounding the Craft and Career of Teaching"

Workshop: 10:00—11:00 a.m.
"Cultivating Imagination with Creative Writing and Performance"

Afternoon Sessions: 12:00—3:00 p.m.

- ELA- K-5th CCSS Reading
- ELA- M2 Writing Crosses 1 & 2
- Mathematics- K-2nd MyMath
- Mathematics- 3rd-5th Fractions
- Mathematics- Algebra Unwrapping the Standards (Duplicate of Monday afternoon)
- Science- Nonfiction "Writing to Learn"

Tuesday, June 5th, 2012

Morning Sessions: 8:00—11:00 a.m.

- ELA/Social Studies- MS/HS Creating Units Based on CCSS (Duplicate of 1st)
- Mathematics- K-2nd MyMath (Duplicate of Monday afternoon)
- Mathematics- MS/HS TI Inspire
- Mathematics- MS/HS Geometry Draw and Diagram
- Science- TP K-4th Discovery Education
- Science- TP 5th-8th Discovery Education

Afternoon Sessions: 12:00—3:00 p.m.

- ELA- K-5th CCSS Language (Vocabulary/Grammar)
- ELA- M2 Writing Crosses 2 & 3
- Mathematics- 3rd-4th MyMath
- Mathematics- Algebra Unwrapping the Standards (Duplicate of Monday afternoon)
- Science- TP K-4th Discovery Education (Duplicate of this morning)
- Science- TP 5th-8th Discovery Education (Duplicate of this morning)
- Social Studies- AP Collaboration
- World Language- Motivate your Students to Become Global Learners Using Mobile Technology

All Day Session: 8:00 a.m.—11:00 a.m.
12:00 p.m.— 3:00 p.m.

- Fine Arts- Kennedy Center in the Classroom

About the Institute:
All sessions are invitational and optional.
Teachers are welcome to attend any sessions they believe to be relevant.
Professional Development or Career Ladder A hours will be awarded.
Check in MLP for more details about the sessions within the Institute.
Contact members of the SUSD Curriculum Team if you have additional questions.
Lunch is on your own during the Institute.



Engage, Educate and Empower Every Student, Every Day

Please sign up in MLP for any sessions you plan to attend by May 31st.

Wednesday, June 6th, 2012

Morning Sessions: 8:00—11:00 a.m.

- ELA/Social Studies- MS/HS Creating Units Based on CCSS (Duplicate of 1st)
- Fine Arts- Soccer Music
- Mathematics- K-5th Why Did These and What to Ask: Accessible Talk in Math
- Mathematics- 3rd-4th MyMath (Duplicate of Monday afternoon)
- Mathematics- TP MS Explore Learning Styles
- Science- TP MS Explore Learning Styles
- World Language- Motivate your Students to Become Global Learners Using Mobile Technology (Duplicate of Tuesday afternoon)

Afternoon Sessions: 12:00—3:00 p.m.

- ELA- MS/HS Close Reading Strategies
- Fine Arts- Poetry
- Mathematics- K-5th Problem Solving
- Mathematics- MS Math
- Mathematics- MS Why Did These and What to Ask: Accessible Talk in Math
- Mathematics- TP MS Explore Learning Styles (Duplicate of this morning)
- Science- TP MS Explore Learning Styles (Duplicate of this morning)

All Day Session: 8:00—11:00 a.m. & 12:00— 3:00 p.m.

- ELA- K-5th CCSS Writing

Thursday, June 7th, 2012

Morning Sessions: 8:00—11:00 a.m.

- ELA/Social Studies- MS/HS Creating Units Based on CCSS (Duplicate of 1st)
- Fine Arts- Creative
- Mathematics- K-5th Explore Online Resources for Math Instruction
- Mathematics- K-5th Why Did These and What to Ask: Accessible Talk in Math (Duplicate of Wednesday morning)
- Mathematics- 5th MyMath (Duplicate of Monday afternoon)
- Mathematics- MS-5th Explore Online Resources for Math Instruction
- Mathematics- MS/HS Explore Draw and Diagram (Duplicate of Monday morning)
- Science- MS/HS Professional by Choice

Afternoon Sessions: 12:00—3:00 p.m.

- ELA- K-5th CCSS Creativity of Text
- ELA- MS/HS Grammar
- Fine Arts- Techniques and Strategies in Assessment
- Mathematics- MS/HS Problem Solving Strategies
- Mathematics- MS Open Level Inquiry Progress/ Writing Progress
- Science- MS/HS Professional by Choice (Duplicate of this morning)
- Social Studies- MS/HS Resources/ Collaborative

Special Offerings

SPED PRESENTS

Non-Violent Physical Crisis Intervention Class
All Day Session
Wednesday, June 6th, 2012
8:00-11:00 a.m. and 12:00-3:00 p.m.

Please sign up in MLP for any sessions you plan to attend by May 31st.



Engage, Educate and Empower Every Student, Every Day

SUSD Summer PD Institute

SUSD SUMMER INSTITUTE

Professional Development *for*
Teachers

Facilitated *by* Teachers

Institute Theme:
Instruction that Matters Most

June 4—7, 2012
Mohave District Annex

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- Mathematics- K-2nd MyMath
- Mathematics- 3rd-5th Fractions
- Mathematics- Algebra Unwrapping the Standards
- Science- Notebooking “Writing to Learn”

Tuesday, June 5th, 2012

Morning Sessions: 8:00—11:00 a.m.

- ELA/Social Studies- MS/HS Creating Units Based on CCSS (Session 1 of 3)
- Mathematics- K-2nd MyMath (Duplicate of Monday afternoon)
- Mathematics- MS/HS TI Inspire
- Mathematics- MS/HS GeoGebra Draw and Diagram
- Science- TIP K-4th Discovery Education
- Science- TIP 5th-8th Discovery Education

Afternoon Sessions: 12:00—3:00 p.m.

- ELA- K-5th CCSS Language (Vocabulary/Grammar)
- ELA- MS Writing (Session 2 of 2)
- Mathematics- 3rd-4th MyMath
- Mathematics- Algebra Unwrapping the Standards (Duplicate of Monday afternoon)
- Science- TIP K-4th Discovery Education (Duplicate of this morning)
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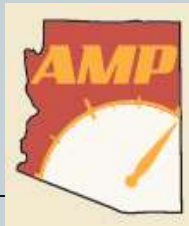
Supporting SUSD Teachers Partnership Highlights



Middle Level:

SCC -- Arizona Mathematics Partnership

Promoting Excellence in Arizona
Middle School Mathematics:
Increasing Student Achievement
through Systemic Instructional
Change



High School:

ASU -- Project Pathways

Ongoing PD and Support to
discuss what is involved in knowing,
learning and teaching concepts.

Explicit attention to:

- Speaking with meaning
- Mathematical Integrity
- Sense Making
- Respecting the learning
process of colleagues

Budget Information



Spreadsheet(s) Reflect:

- 1. Texts we have already purchased at the secondary level**
- 2. What we hope you'll approve to spend this spring, based on recommendations you heard tonight**
- 3. What we project in savings based on the exchange of materials at grades K-8**

Wrapping Up...



Special thanks to our HS math adoption committee members, lead teachers in grades K-8 and our SUSD Curriculum Specialists for their commitment to this work!



Questions?