

K-12 Mathematics Update

Office of Superintendent of Public
Instruction

January 15, 2009



Agenda

- High School Core/Comprehensive Instructional Materials Review
 - Process and Recommendations
- Supplemental Materials Review Update
- Curriculum Usage and Adoption Survey
- Online Mathematics Curriculum



Instructional Materials Review Process Overview



Instructional Materials Review Process Overview, cont.

6. Seek SBE Math Panel Input on Preliminary Results

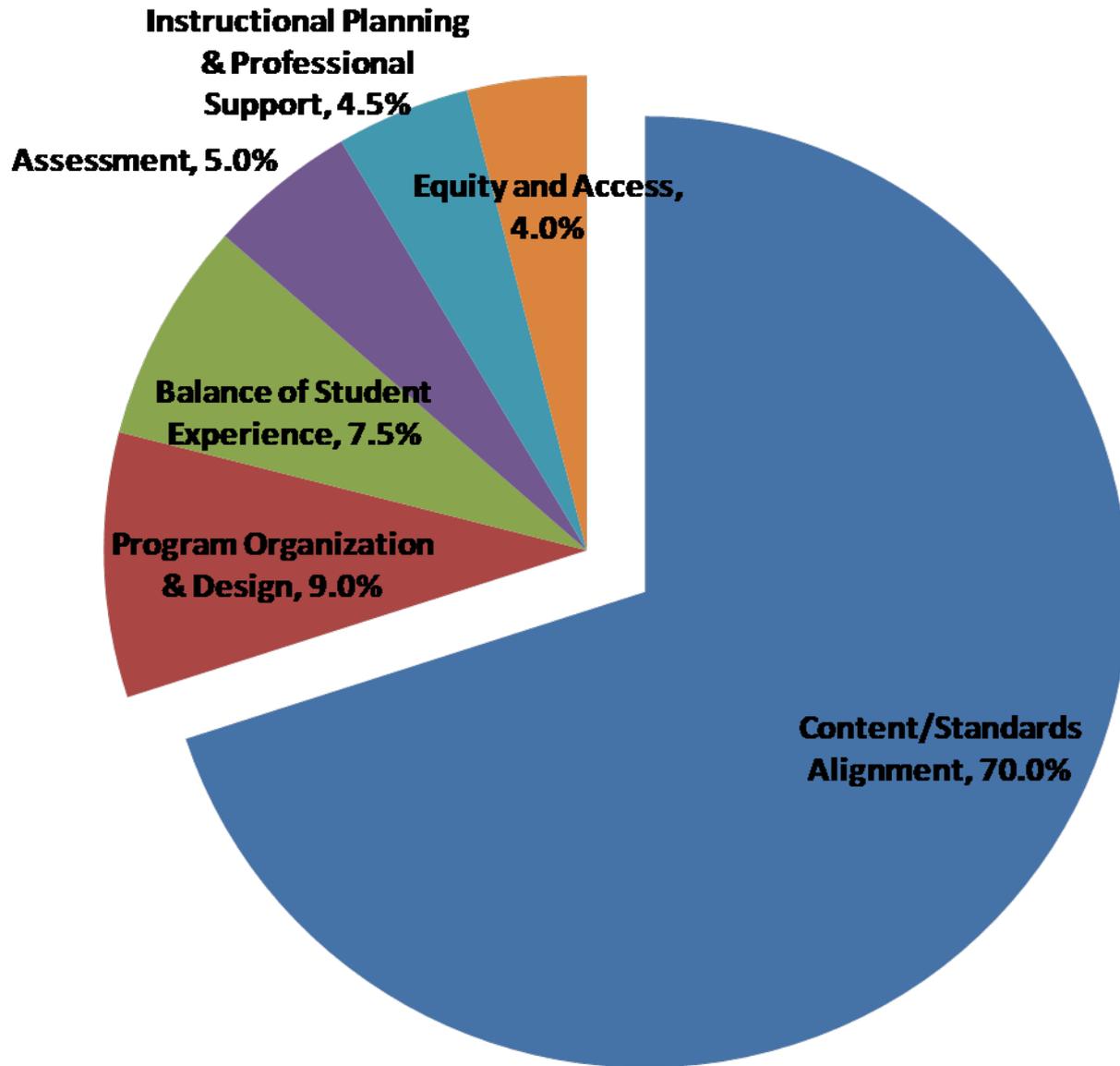
7. SBE Contractor Reviews and Comments on Review Results

8. Identify Final Recommendations

9. Provide Supports to Districts



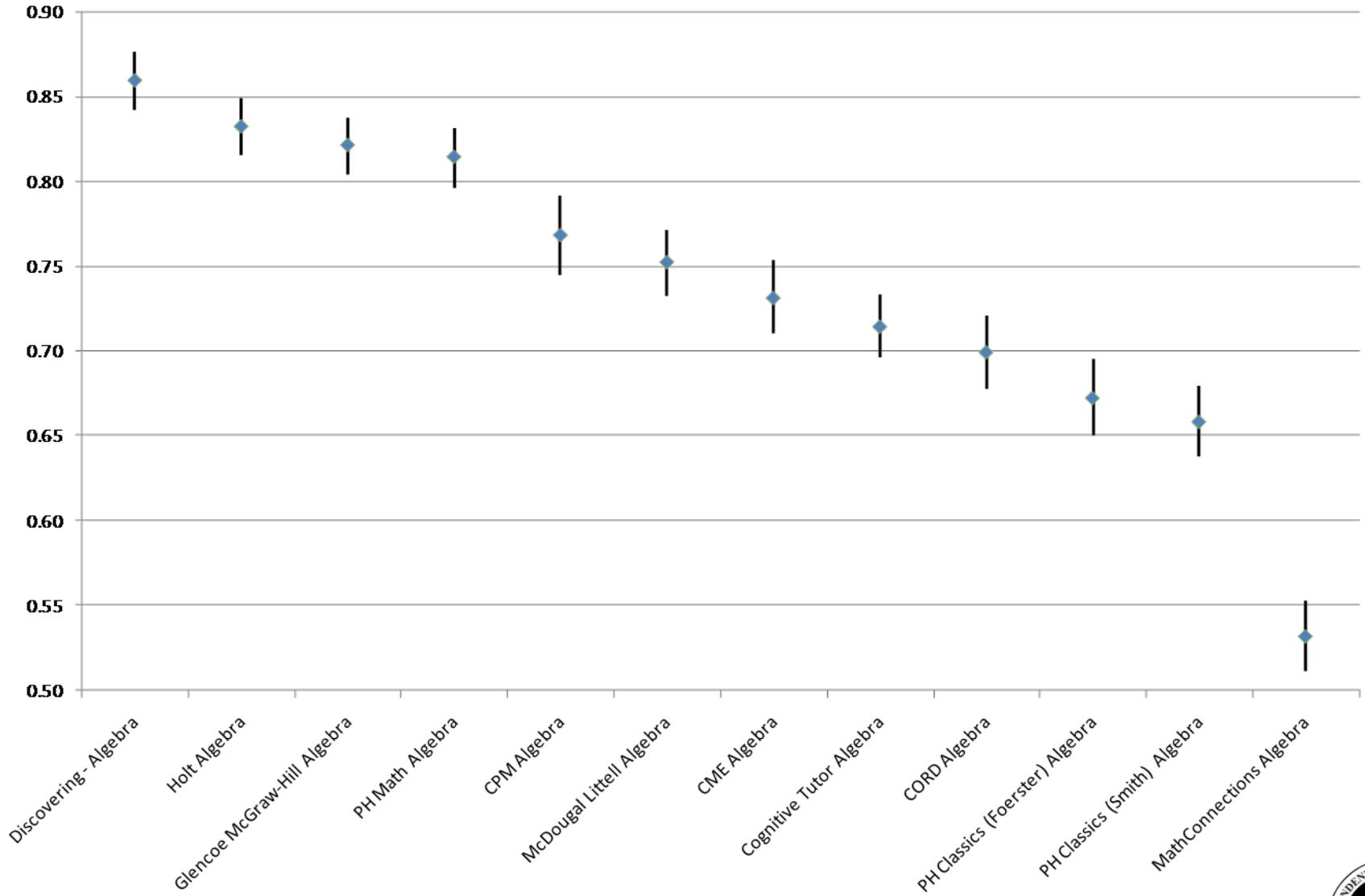
Category Weights



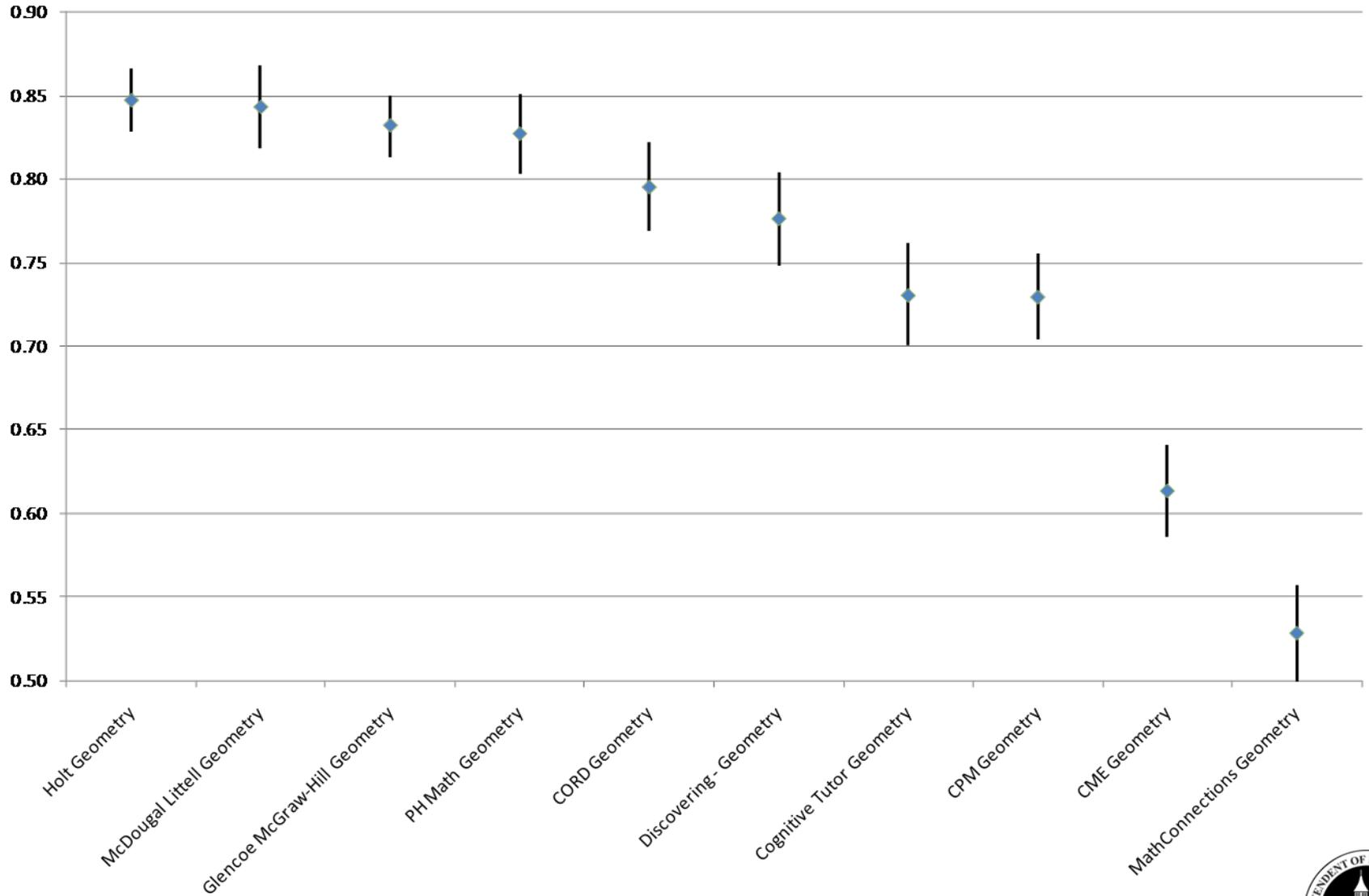
<p>There is little or no content (0)</p>	<p>Important content is missing (1)</p>	<p>All or most content is present, but missing some key teaching and learning tools (2)</p>	<p>All content and key teaching and learning tools are present (3)</p>
<ul style="list-style-type: none"> • All or most of the content in the standard is missing in the program. - It may be completely absent. - It may be briefly mentioned, but it is not developed. - It may contain less sophisticated precursor content that would lead to the content in the standard. • <i>A typical student would not be able to achieve mastery with the core program materials.</i> 	<ul style="list-style-type: none"> • Some significant aspect of the content is not present. - Some of the content may be completely absent. - Some of the content may be less rigorous. • It would take significant time and knowledge to fill the content gaps in the program. • <i>A typical student would not be able to achieve mastery with the core program materials without some content supplementation.</i> 	<ul style="list-style-type: none"> • The key content from the standard exists in the program. • The core materials need supplementation to do such things as adding additional opportunities for practice or finding other representations to help students consolidate learning. • <i>Many students would achieve mastery with the core program material.</i> 	<ul style="list-style-type: none"> • The content from the standard is fully present. • There is adequate information about the content and sufficient teaching and learning ideas included program to ensure that students develop conceptual understanding and procedural skill. • There is sufficient practice to ensure mastery. • <i>A typical student would be able to achieve mastery with the core program materials.</i>



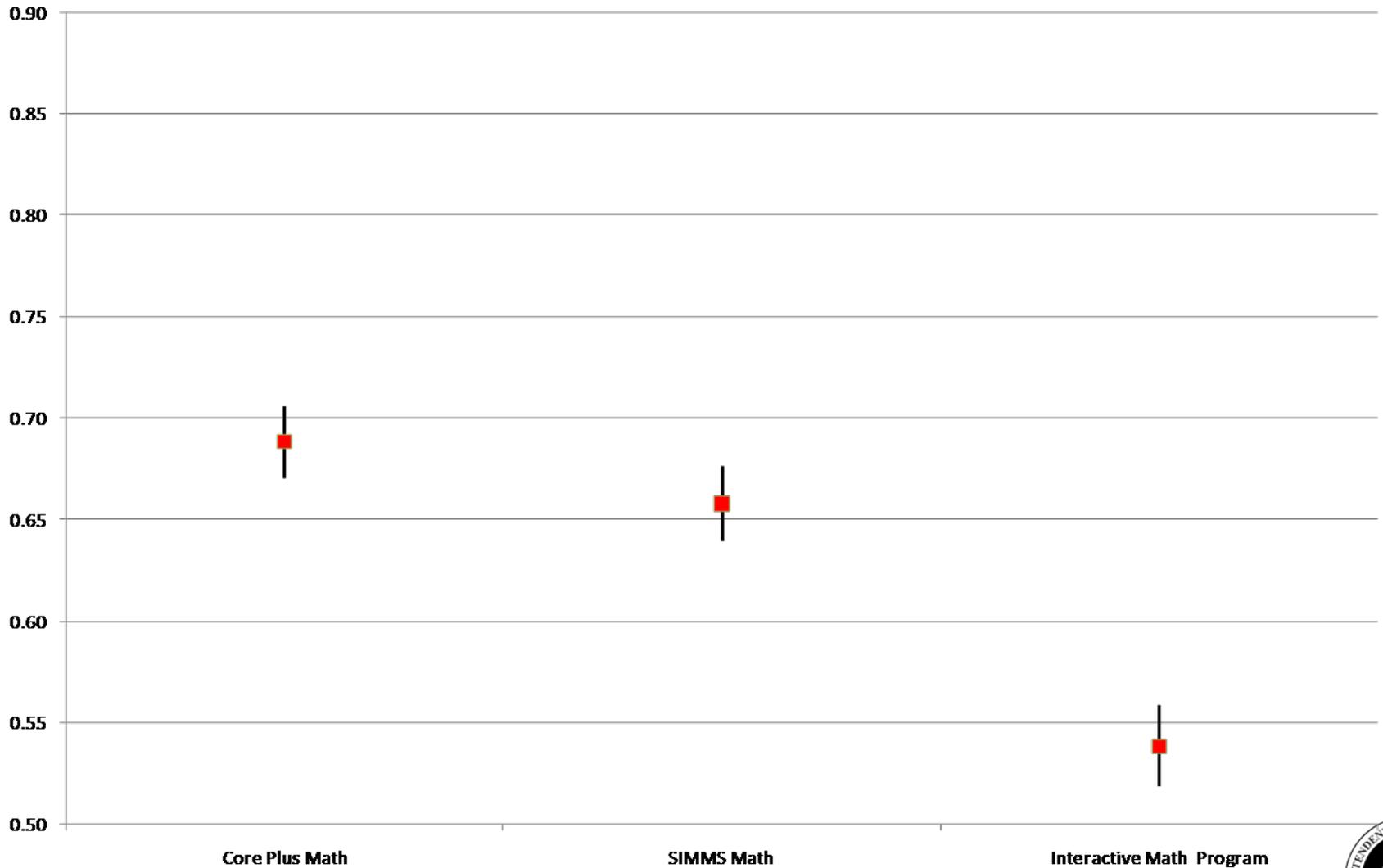
Algebra Composite Scores with 95% Confidence Intervals



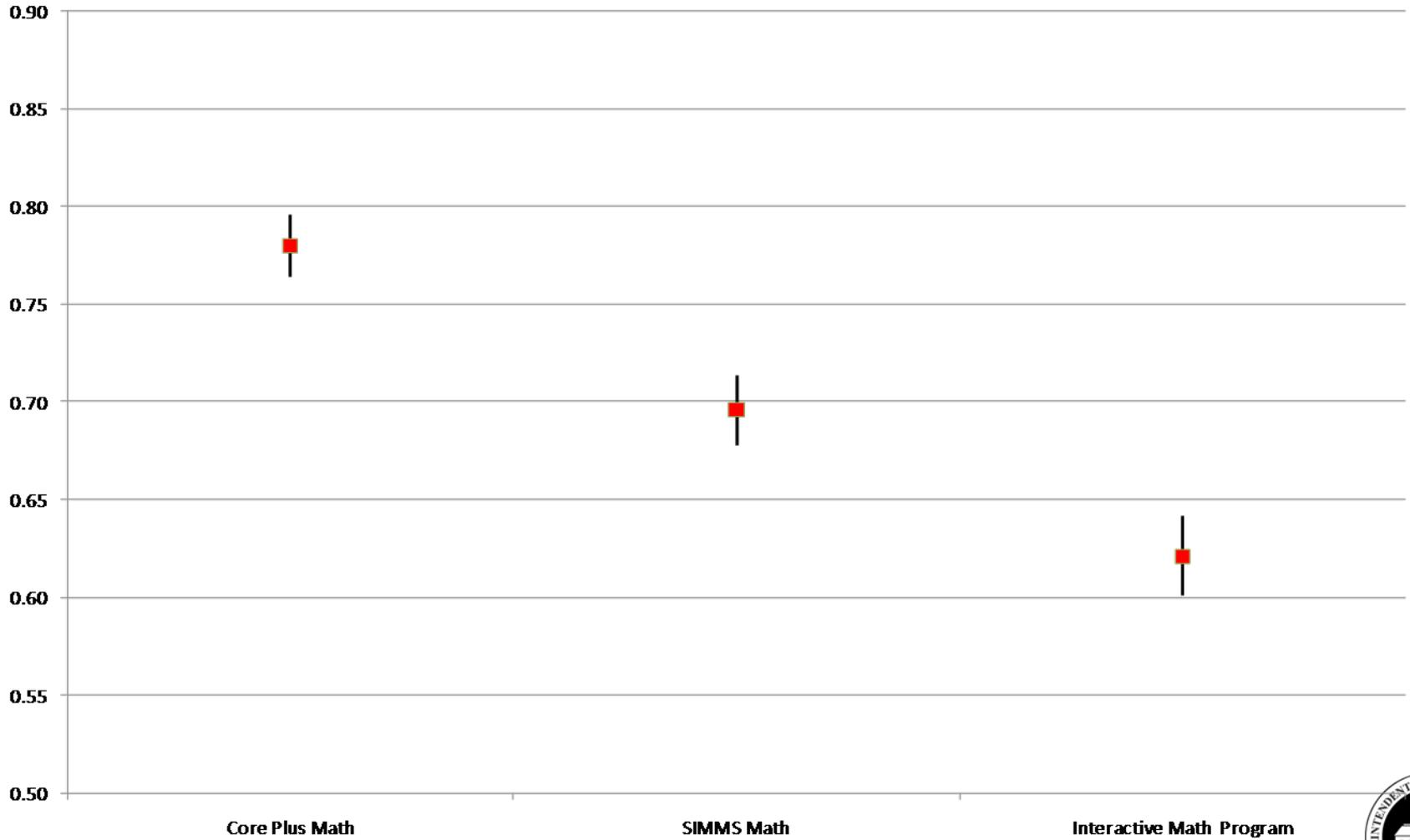
Geometry Composite Scores with 95% Confidence Intervals



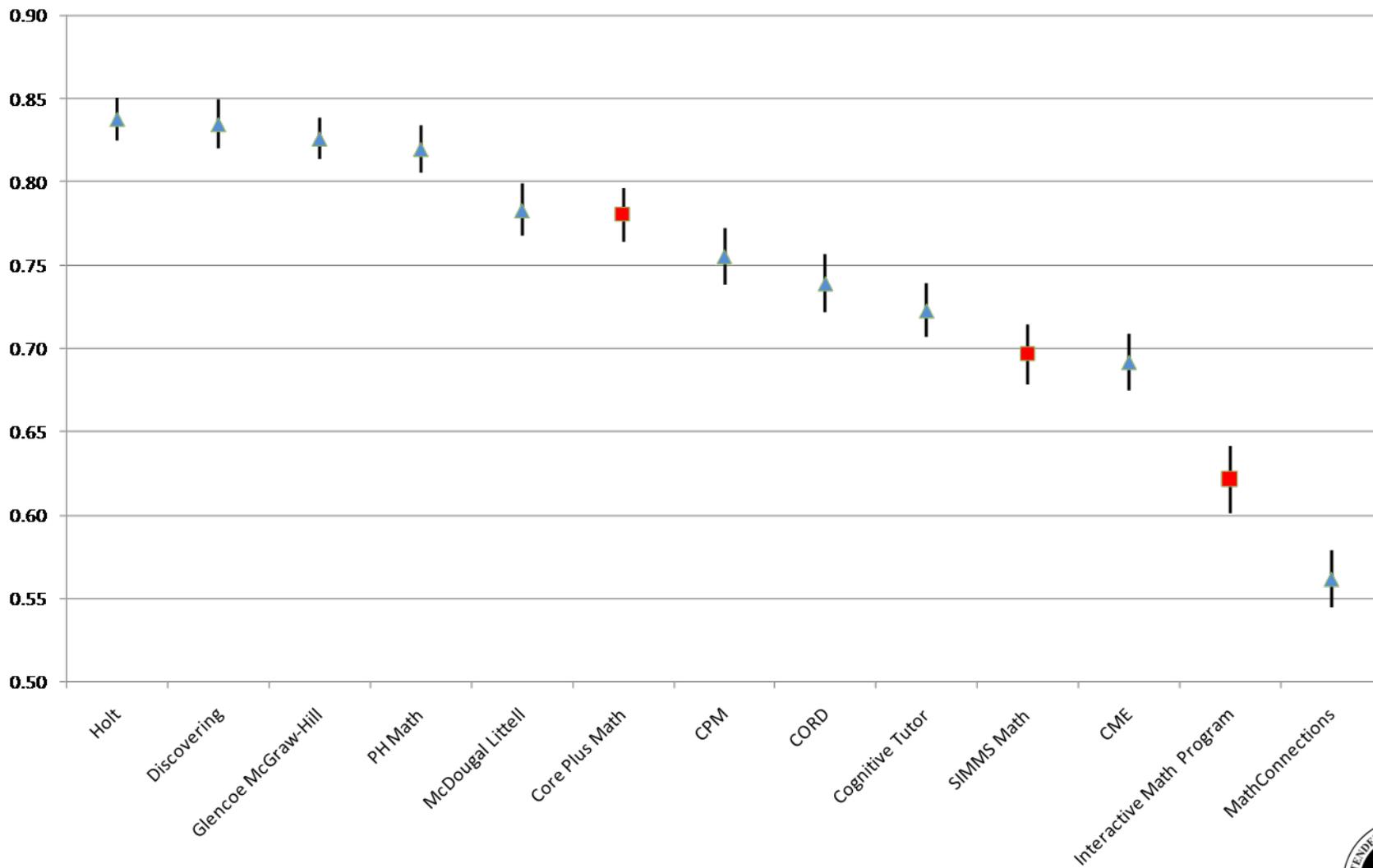
Integrated Composite Scores with 95% Confidence Intervals, Treated as Individual Courses



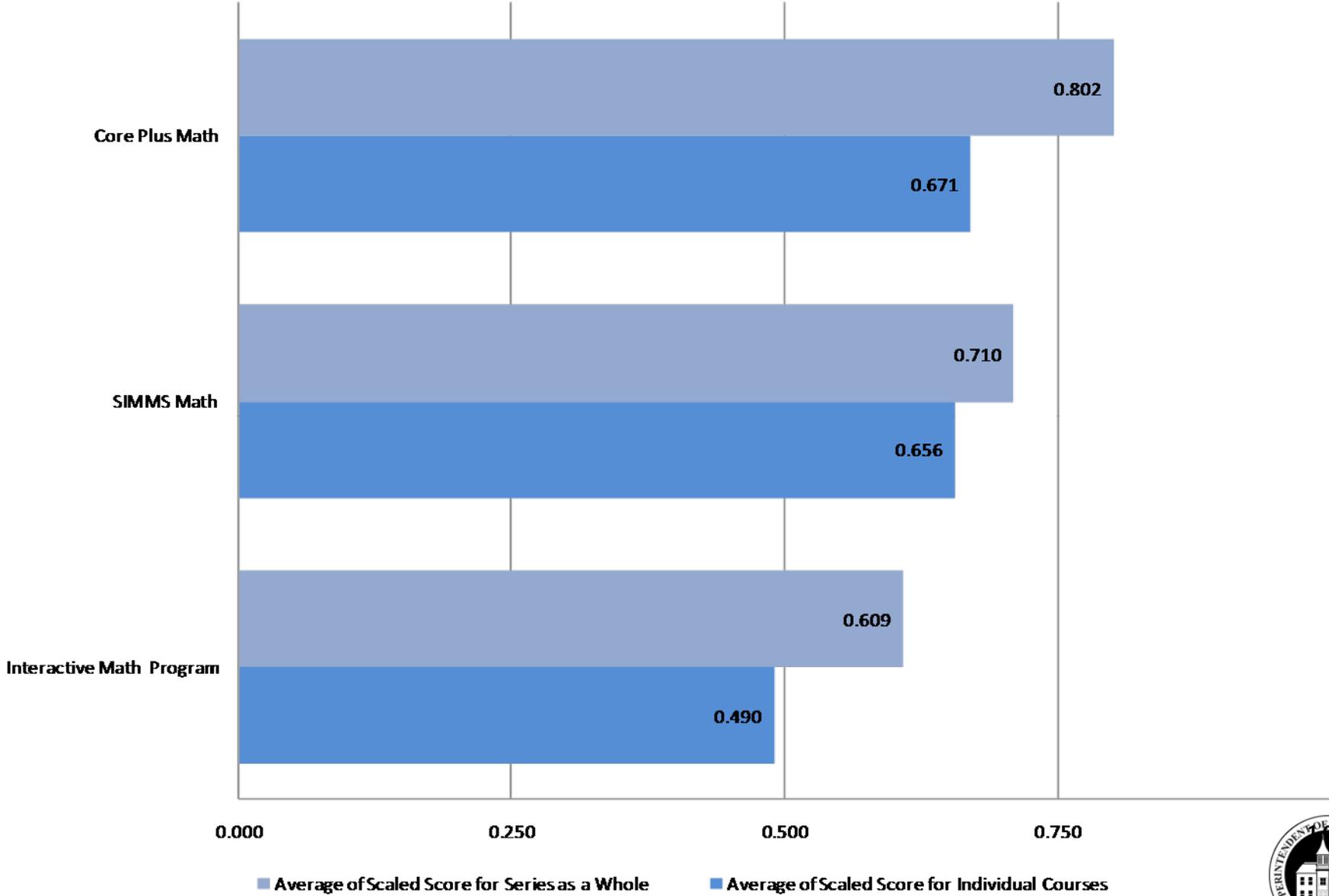
Integrated Composite Scores with 95% Confidence Intervals, Treated as a Series



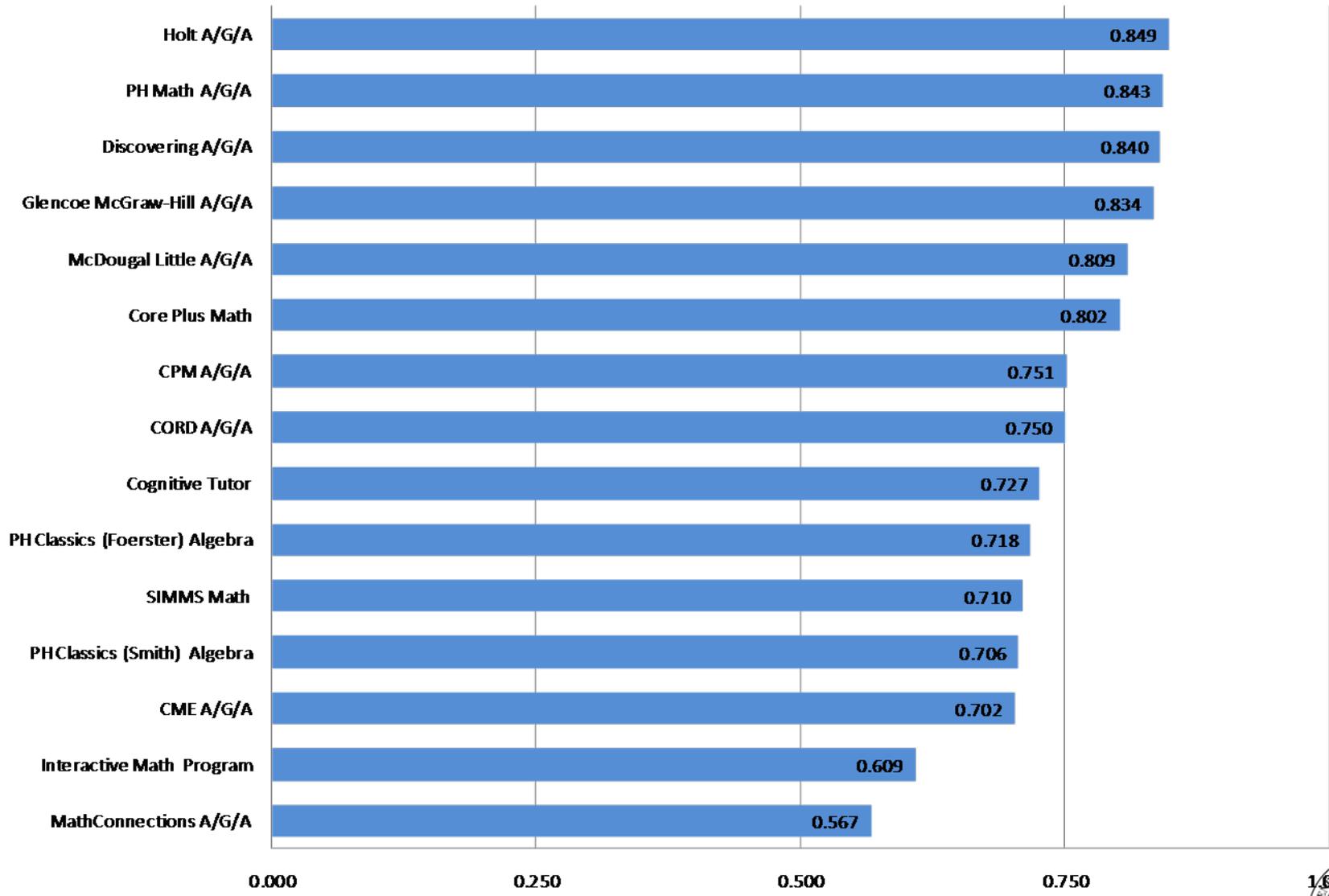
Traditional ▲ and Integrated ■ Publisher Bundle Composite Scores with 95% Confidence Intervals



Content/Standards Alignment



Content/Standards Alignment



Algebra 1 Content Dashboard

Core Content Area	Glencoe McGraw-Hill Algebra	Discovering - Algebra	PH Math Algebra	Holt Algebra	CPM Algebra	McDougal Littell Algebra	CORD Algebra	CME Algebra	Cognitive Tutor Algebra	PH Classics (Smith) Algebra	PH Classics (Foerster) Algebra	MathConnections Algebra	Overall
Solving Problems	●	●	●	●	●	●	●	●	●	●	●	○	●
Numbers, expressions and operations	●	◐	●	●	●	●	◐	●	●	●	●	○	●
Characteristics and behaviors of functions	●	●	●	●	●	●	●	●	●	◐	●	○	●
Linear functions, equations and inequalities	●	●	●	●	●	●	●	●	●	●	●	○	●
Quadratic functions and equations	●	●	●	●	●	●	●	●	●	●	●	○	●
Data and distributions	●	◐	◐	◐	○	◐	◐	◐	◐	◐	○	◐	◐
Additional Key Content	●	●	●	●	◐	●	◐	◐	◐	○	○	○	◐
Reasoning, Problem Solving, and Communication	●	●	●	●	●	●	◐	●	●	◐	◐	◐	●
Overall	●	●	●	●	●	●	●	●	●	◐	◐	○	●



Geometry Content Dashboard

Core Content Area	Holt Geometry	PH Math Geometry	McDougal Littell Geometry	Glencoe McGraw-Hill Geometry	CORD Geometry	Discovering - Geometry	CPM Geometry	Cognitive Tutor Geometry	CME Geometry	MathConnections Geometry	Overall
Logical arguments and proofs	●	●	●	●	●	●	◐	○	○	○	●
Lines and angles	●	●	●	●	●	●	●	●	◐	◐	●
Two- and Three-Dimensional Figures	●	●	●	●	●	●	●	●	●	◐	●
Geometry in the coordinate plane	●	●	●	●	●	●	◐	◐	◐	○	◐
Geometric transformations	●	●	●	●	●	●	●	●	◐	○	●
Additional Key Content	●	◐	◐	●	○	◐	◐	○	○	◐	◐
Reasoning, Problem Solving, and Communication	●	●	●	●	●	●	●	●	●	●	●
Overall	●	●	●	●	●	●	●	◐	◐	◐	●



Algebra 2 Content Dashboard

Core Content Area	Discovering - Algebra	Holt Algebra	PH Math Algebra	Glencoe McGraw-Hill Algebra	PH Classics (Foerster) Algebra	McDougal Littell Algebra	Cognitive Tutor Algebra	PH Classics (Smith) Algebra	CPM Algebra	CME Algebra	MathConnections Algebra	CORD Algebra	Overall
Solving Problems	●	●	●	●	●	●	●	●	◐	◐	◐	●	●
Numbers, expressions and operations	●	●	●	●	●	●	●	●	◐	●	○	◐	●
Quadratic functions and equations	●	●	●	●	●	●	●	●	◐	◐	○	◐	●
Exponential and logarithmic functions and equations	●	●	●	●	●	●	●	●	●	●	●	●	●
Additional functions and equations	●	●	●	●	◐	●	●	○	●	●	○	○	●
Probability, data, and distributions	●	●	●	●	◐	●	◐	◐	◐	○	●	○	◐
Additional Key Content	●	●	●	●	●	●	◐	●	●	●	◐	●	●
Reasoning, Problem Solving, and Communication	●	●	●	●	●	◐	◐	◐	◐	●	●	◐	●
Overall	●	●	●	●	●	●	●	●	●	◐	◐	◐	●



Math 1

Core Content Area	Core Plus Math	SIMMS Math	Interactive Math Program	Overall
Solving Problems	●	●	◐	●
Numbers, expressions and operations	●	○	◐	◐
Characteristics and behaviors of functions	●	●	◐	●
Linear functions, equations and relationships	●	●	○	◐
Proportionality, similarity, and geometric reasoning	●	○	◐	◐
Data and distributions	●	◐	●	●
Additional Key Content	●	◐	○	◐
Reasoning, Problem Solving, and Communication	●	●	●	●
Overall	●	◐	◐	●

Math 2

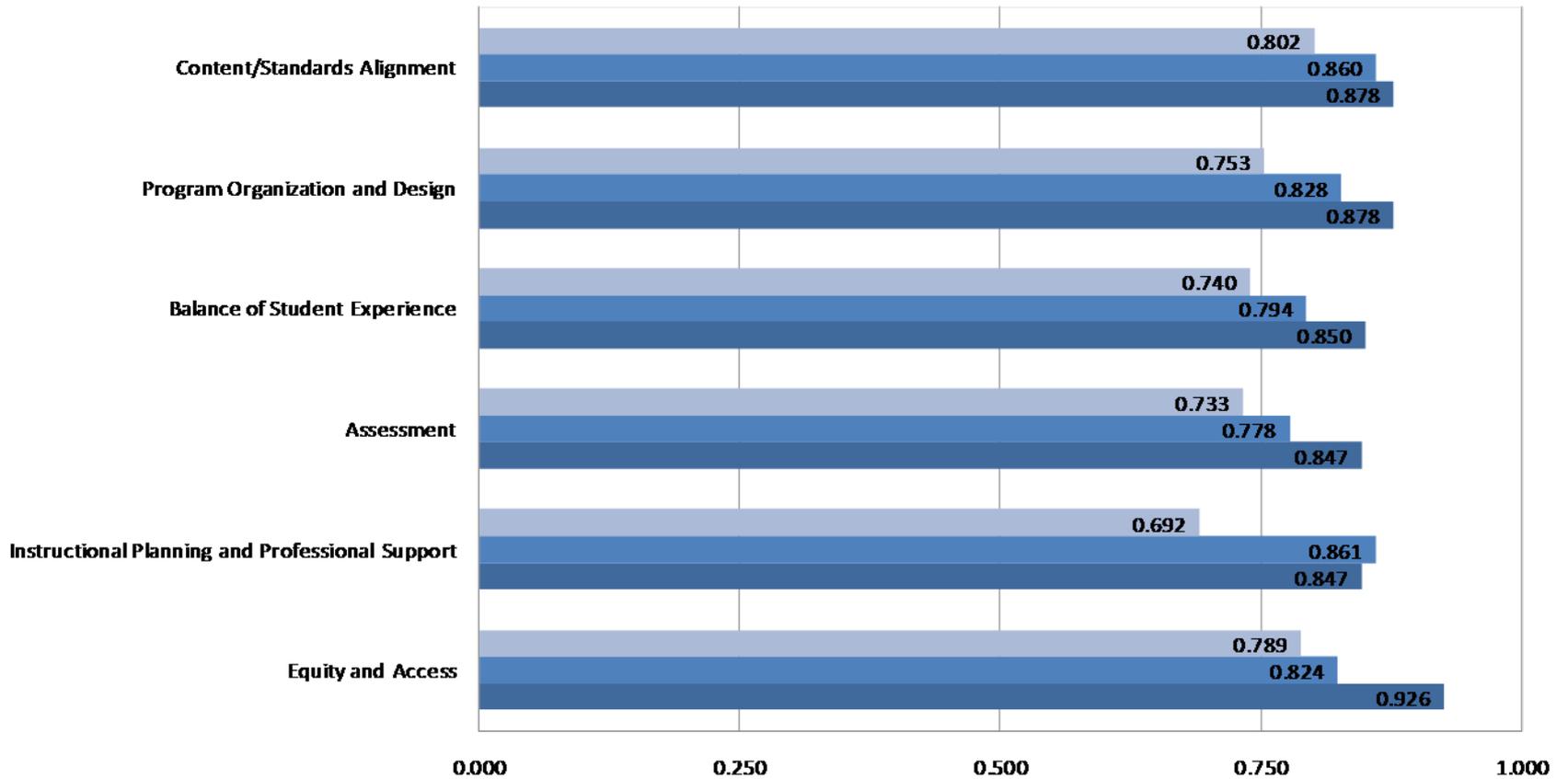
Core Content Area	Core Plus Math	SIMMS Math	Interactive Math Program	Overall
Modeling situations and solving problems	●	●	●	●
Quadratic functions, equations, and relationships	●	○	◐	◐
Conjectures and proofs	●	●	○	◐
Probability	●	●	●	●
Additional Key Content	●	◐	◐	◐
Reasoning, Problem Solving, and Communication	●	●	●	●
Overall	●	●	◐	●

Math 3

Core Content Area	SIMMS Math	Core Plus Math	Interactive Math Program	Overall
Solving Problems	●	●	◐	●
Transformations and functions	●	●	○	◐
Functions and modeling	◐	◐	○	◐
Quantifying variability	●	◐	○	◐
Three-dimensional geometry	●	○	○	◐
Algebraic properties	○	●	○	○
Additional Key Content	◐	◐	○	◐
Reasoning, Problem Solving, and Communication	●	●	●	●
Overall	●	●	○	◐



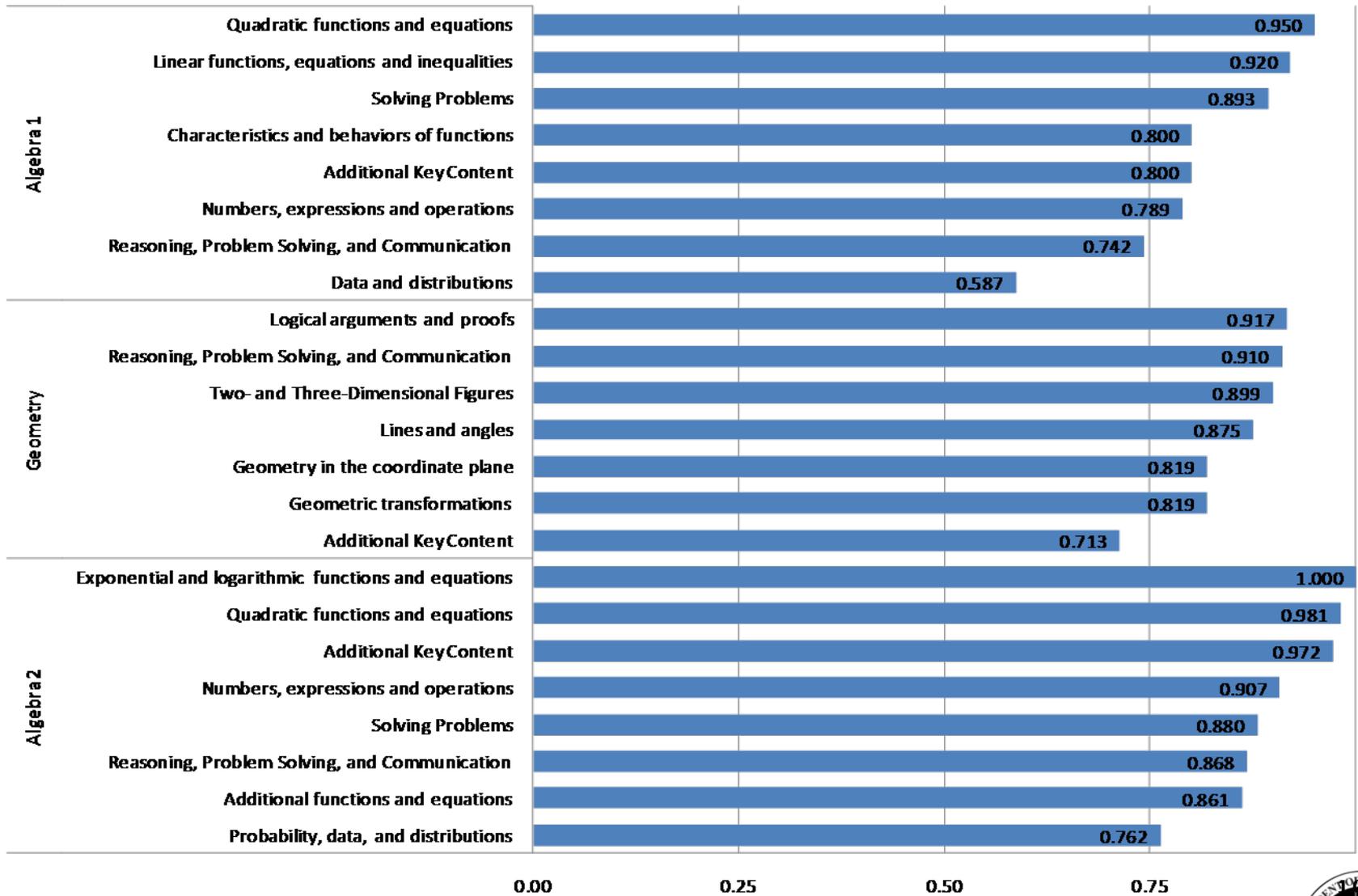
Holt A/G/A



	Equity and Access	Instructional Planning and Professional Support	Assessment	Balance of Student Experience	Program Organization and Design	Content/Standards Alignment
Algebra 1	0.789	0.692	0.733	0.740	0.753	0.802
Geometry	0.824	0.861	0.778	0.794	0.828	0.860
Algebra 2	0.926	0.847	0.847	0.850	0.878	0.878



Holt A/G/A



Feedback from Math Panel

- Compare overall publisher bundles wherever possible
- Make dashboards easier to read
- Include information about instructional method, if known
- Emphasize depth of field in traditional programs
- Improve language about grade dips—treating data as individual courses or as a whole series
- Minor adjustments to language to improve clarity
- Expressed concern over Integrated standards alignment findings, especially in regard to end of course tests, and the need for supplementation, and asked if OSPI could re-order the standards



Initial Recommendations

Publisher Bundle	Type of Program	Final Composite Score	Overall Rank
Holt Mathematics	Traditional (A1/G/A2)	0.838	1 st
Discovering	Traditional (A1/G/A2)	0.835	2 nd
Core Plus Math	Integrated (M1-3)	0.780	Tied for 5 th /6 th



Observations

- Depth of field in traditional programs
- Recommendations provide a variety of instructional approaches
- Concern about Integrated standards
 - Almost 40% of students use integrated products
 - High variability among programs regarding where standards are met
 - End of course assessment very difficult to implement
 - Supplementation and sequencing may require more intense effort



Supplemental Review Fast Facts

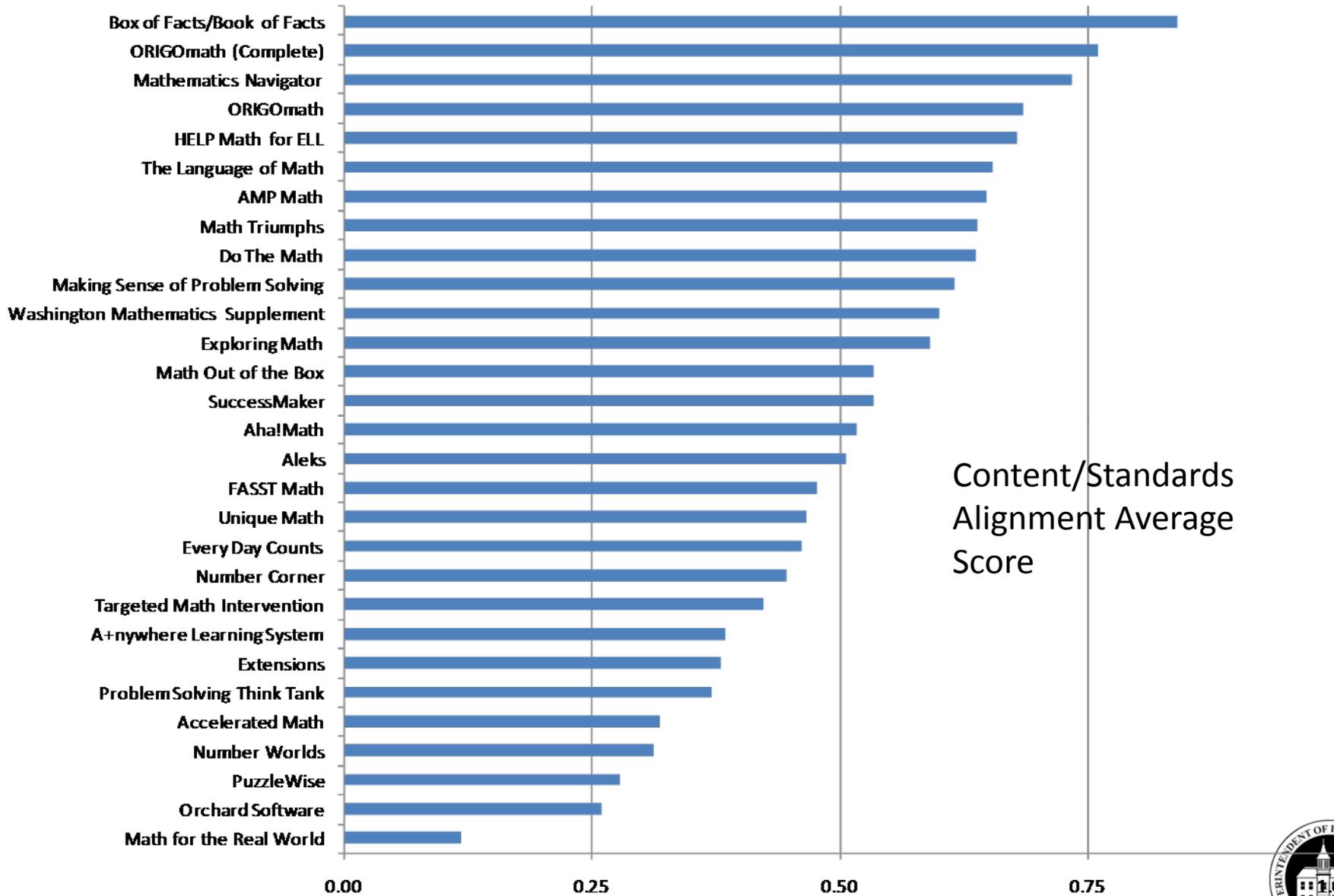
- 42 products reviewed
 - 10 had some high school coverage
- Over 19,000 data elements collected
- Less stringent scoring rubric
 - More emphasis on practice
 - Less on content development
- Content standards more easily supplemented than process standards



Supplemental Program	K	1	2	3	4	5	6	7	8	A1	G	A2	M1	M2	M3
A+nywhere Learning System		6%	7%	7%	6%	7%	8%	8%	5%	9%	8%	7%	6%	8%	8%
Accelerated Math		9%	7%	8%	7%	7%	8%	8%		8%	8%	7%	7%	8%	8%
Aha!Math	9%	25%	12%	16%	19%	19%									
Aim for Algebra								29%	19%	25%			26%		
Aleks				10%	10%	9%	11%	14%	10%	11%	10%	8%	3%	2%	2%
Algebra 1 (TCM)									13%	31%	5%	8%	23%	14%	7%
Algebra Crash Course									8%	37%		9%	27%	9%	9%
Algebra Readiness (MTP)						57%	39%	3%							
Algebra Readiness (TCM)							41%	23%	23%	12%					
AMP Math				16%	28%	14%	16%	15%	11%						
Big Math	100%														
Box of Facts/Book of Facts		24%	18%	40%	18%										
Do The Math			17%	24%	26%	21%	12%								
Every Day Counts	9%	15%	14%	15%	19%	14%	14%								
Exploring Math		31%	18%	24%	17%	9%									
Extensions	10%	15%	14%	17%	12%	7%	10%	9%	7%						
FASST Math		7%	21%	50%	21%										
HELP Math for ELL				15%	19%	17%	16%	17%	16%						
M/S Segmented					28%	15%	15%	15%	27%						
Making Sense of Problem Solving	9%	12%	10%	11%	13%	15%	10%	13%	8%						
Math Avenues					31%	26%	25%	18%							
Math for the Real World	12%	16%	13%	13%	8%	9%	11%	8%	9%						
Math Out of the Box	13%	16%	14%	20%	18%	20%									
Math Triumphs	8%	11%	9%	10%	11%	11%	16%	12%	12%						
Mathematics Navigator			7%	6%	17%	14%	8%	7%	8%	9%	1%	4%	10%	5%	4%
Number Corner	10%	17%	15%	18%	20%	19%									
Number Worlds	8%	12%	10%	7%	12%	10%	14%	15%	12%						
Orchard Software	6%	9%	7%	10%	15%	7%	7%	10%	10%	10%			9%		
ORIGomath		30%	16%	13%	11%	15%	14%								
ORIGomath (Complete)		14%	17%	20%	15%	16%	19%								
Pre-Algebra Pathways						2%	38%	36%	24%						
Problem Solving Think Tank		17%	11%	13%	14%	13%	11%	12%	9%						
PuzzleWise		10%	12%	11%	15%	13%	16%	12%	11%						
ReadySet Curriculum (WA Math)							36%	33%	31%						
Segmented					4%	7%	24%	28%	22%	9%			6%		
SuccessMaker	5%	12%	12%	8%	15%	14%	15%	13%	6%						
Targeted Math Intervention		22%	14%	14%	7%	9%	12%	11%	12%						
Tech Tools Graphing Calculator							38%	35%	28%						
The Language of Math				35%	33%	32%									
Unique Math	11%	18%	24%	16%	20%	11%									
Washington Mathematics Supplement	11%	21%	18%	15%	18%	17%									
Waterford Early Math & Science	25%	35%	40%												
Grand Total	5%	10%	9%	11%	13%	12%	11%	9%	8%	4%	1%	1%	3%	1%	1%



Grade 3



Content/Standards
Alignment Average
Score



Kindergarten Supplemental Products by Core Content Area

Core Content Areas	Washington Mathematics Supplement	Math Out of the Box	Every Day Counts	Making Sense of Problem Solving	Number Corner	Waterford Early Math & Science	Big Math	Math Triumphs	Unique Math	Aha!Math	SuccessMaker	Number Worlds	Extensions	Orchard Software	Math for the Real World	Grand Total
Whole Numbers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Objects and their Locations	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patterns and Operations	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Additional Key Content	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reasoning, Problem Solving, and	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Grand Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



7th Grade Supplemental Products

Core Content Areas	Aim for Algebra	Mathematics Navigator	Making Sense of Problem Solving	AMP Math	Orchard Software	Segmented	Math Avenues	Tech Tools Graphing Calculator	ReadySet Curriculum (WA Math)	Number Worlds	Aleks	HELP Math for ELL	Math Triumphs	Targeted Math Intervention	M/S Segmented	SuccessMaker	Extensions	Algebra Readiness (TCM)	A+nywhere Learning System	PuzzleWise	Math for the Real World	Algebra Readiness (MTP)	Accelerated Math	Pre-Algebra Pathways	Problem Solving Think Tank	Average
Rational Numbers and Linear Equations	●	●	◐	◐	●	●	○	○	●	●	●	◐	◐	◐	◐	◐	◐	◐	●	○	○	○	◐	○	○	●
Proportionality and Similarity	●	◐	●	◐	◐	◐	◐	○	◐	◐	◐	◐	◐	○	◐	○	○	○	○	○	○	○	○	○	○	◐
Surface Area and Volume	○	○	◐	●	◐	◐	●	○	●	○	◐	◐	◐	○	○	○	○	○	○	○	○	○	○	○	○	◐
Probability and Data	○	●	●	◐	●	◐	○	○	◐	◐	◐	◐	○	◐	◐	◐	◐	○	○	○	○	○	○	○	○	◐
Additional Key Content	◐	●	○	●	●	●	○	●	●	●	◐	○	○	○	◐	◐	○	○	○	○	○	○	○	○	○	◐
Reasoning, Problem Solving, and Communication	●	●	●	●	◐	◐	◐	◐	○	◐	◐	●	◐	●	◐	○	◐	○	○	○	○	○	○	○	○	◐
Average	●	●	●	●	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	○	○	○	○	○	○	○	○	○	○	◐



Algebra 1 Supplemental Programs

Core Content Areas	Segmented	Aim for Algebra	Aleks	Algebra 1 (TCM)	A+nywhere Learning System	Mathematics Navigator	Accelerated Math	Orchard Software	Algebra Crash Course	Algebra Readiness (TCM)	Average
Solving Problems	●	◐	●	●	●	◐	●	◐	○	◐	◐
Numbers, expressions and operations	●	◐	●	●	◐	◐	◐	○	○	◐	◐
Characteristics and behaviors of functions	●	○	◐	◐	●	○	◐	○	◐	○	◐
Linear functions, equations and inequalities	●	●	●	●	◐	◐	◐	○	◐	○	◐
Quadratic functions and equations	○	○	●	◐	●	○	◐	◐	○	○	◐
Data and distributions	●	○	◐	○	●	◐	○	○	○	○	◐
Additional Key Content	○	○	○	◐	○	○	○	○	○	○	○
Reasoning, Problem Solving, and Communication	●	●	◐	○	◐	●	○	○	○	○	◐
Average	●	●	◐	◐	◐	◐	◐	○	○	○	◐



Comprehensive-Supplemental Comparison

This chart shows the CCAs for Investigations (Kindergarten). Note the gap in *Additional Key Content*.

Core Content Areas	Investigations
Whole Numbers	●
Objects and their Locations	●
Patterns and Operations	◐
Additional Key Content	○
Reasoning, Problem Solving, and Communication	◐
Average	◐

Here are the supplemental programs that cover Kindergarten. There are three products that bridge the gap for *Additional Key Content*, but none that effectively supplement *Reasoning, Problem Solving and Communication*.

Core Content Areas	Washington Mathematics Supplement	Math Out of the Box	Every Day Counts	Making Sense of Problem Solving	Number Corner	Waterford Early Math & Science	Big Math	Math Triumphs	Unique Math	Aha!Math	SuccessMaker	Number Worlds	Extensions	Orchard Software	Math for the Real World	Grand Total
Whole Numbers	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	○	○	○	○	○	◐
Objects and their Locations	●	●	◐	◐	◐	○	◐	◐	○	○	○	○	○	○	○	◐
Patterns and Operations	●	●	◐	◐	◐	◐	◐	◐	○	○	○	○	◐	○	○	◐
Additional Key Content	●	●	●	●	○	○	○	○	○	○	●	○	○	○	○	○
Reasoning, Problem Solving, and Communication	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	○	○	○	○	○	○
Grand Total	◐	◐	◐	◐	◐	◐	◐	◐	◐	◐	○	○	○	○	○	◐



Supplemental Materials Review

Next Steps

- Work with stakeholders to develop effective visual analysis tools
- Draft report (expected late January, early Feb)
- Present results to districts, other stakeholders



Curriculum Usage Survey

- ESD – OSPI collaboration on data collection: Fall 2008
- Data collected for:
 - Elementary (Grades K-5)
 - Middle (Grades 6-8)
 - High School (Grades 9-12)
- Represents the best picture of the landscape of mathematics curriculum usage ever obtained by the state.



Elementary Curriculum Usage and Recommendations

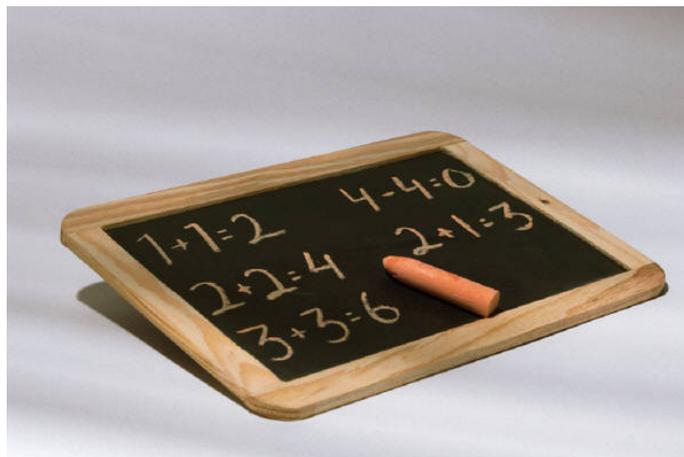
Data reported on 290 districts.

Washington state's students use:

≈ 34% using Everyday Math

≈ 32% using Investigations

≈ 9% using Growing with Mathematics



Supt. Bergeson's Final Recommended Elementary Basic Curricula – 12/10/08

Curricula	Final Composite Score	Usage in State	Core Materials Available Online?
Math Connects	Composite: .724	Used in 2 districts by less than 1% of the students in the state.	Yes
Bridges in Mathematics	Composite: .687	Used in 26 districts representing slightly more than 4% of the students.	No
Math Expressions	Composite: .621	Used in 6 districts representing approximately 4% of the state's students.	Yes



Middle School Curriculum Usage

Data reported on 267 districts.

Washington state's student use:

≈ 65% using Connected Math Project (CMP)

≈ 6% using Math Thematics



Supt. Bergeson's Final Recommended Middle School Basic Curricula – 12/10/08

Curricula	Final Composite Score	Usage in State	Available Online?
Holt Mathematics	Composite: .837	Used in 5 districts by approximately 1% of the students in the state.	Yes
Math Connects	Composite: .723	According to our data, Math Connects is not being used in the state at the Middle School level.	Yes
Prentice Hall Mathematics	Composite: .707	Used in 5 districts representing approximately 1% of the state's students.	Yes



High School Curriculum Usage

Data reported on 189 out of the 246 districts that have at least one high school.

Students in Washington State use:

≈ 56% are using a traditional series.

≈ 36% are using an curriculum with an integrated approach.

Highest usage: ≈ 16% of the Washington State students use Core Plus Mathematics



Supt. Dorn's HS Basic Curricula Initial Recommendations to SBE 1/15/09

Curricula	Final Composite Score	Usage in State	Available Online?
Holt Mathematics Series (A1/G/A2)	Composite: .838	Used by approximately 3% of the state's students.	Yes
Discovering Series (A1/G/A2)	Composite: .835	Used by approximately 7% of the students in the state.	Yes
Core Plus Mathematics (M1-3)	Composite: .780	Used by approximately 16% of the state's students.	Yes



Curriculum Adoption Cycle

- All school districts were invited to complete an online survey regarding adoption and purchasing practices.
- Curriculum leaders, superintendents, and/or principals from 141 school districts responded to the survey (representing 67 percent of the statewide student population)



Adoption Cycle

Fall 2008 Report

	Newly Purchased Curricula in 2008	Will Purchase Curricula Within 2 Years	Will Purchase Curricula Within 3–5 Years	Will Purchase Curricula in 5+ Years
	% of student population			
Elementary School (Grades K–5)	4%	31%	17%	15%
Middle School (Grades 6–8)	1%	22%	17%	18%
High School (Grades 9–12)	1%	37%	12%	14%



Online Mathematics Curriculum

- 2SHB 2598, Section 1:
 - OSPI and SBE required to seek information from private vendors and/or nonprofit organizations adapt existing mathematics curricula to **align with the state's K-12 mathematics standards** and be **made available online at no cost** to school districts



Request for Information

- Cover course content in one or more grade bands;
- Be available online at no cost to districts;
- Include core/comprehensive instructional materials, with any available supplemental materials, program assessments and/or other resource materials to support instruction in specific areas; and
- Provide resources and supports for all potential “users” of the materials.



Request for Information Responses

Organizations Submitting Information Proposals – November 2008

•Agile Mind, Inc.	•Compass Learning
•American Education Corporation	•ENetSys Web Solutions Pvt. Ltd.
•Aventa Learning	•Houghton Mifflin Harcourt Learning Technology
•Carnegie Learning, Inc.	•McGraw Hill
•Central Washington University, Dept. of Mathematics	•Study Island, LLC



Responses, cont.

Products Available	Description
<u>Core</u> Curricula Needing Adaptations: -K-12 -Secondary	Core curricula currently exist and could be adapted to align with state mathematics standards.
<u>K-12 Supplemental</u> Materials Needing Adaptations	K-12 supplemental materials currently exist and could be adapted.
Custom-Built Curricula	Curricula materials do not currently exist. Course content, online access, and other components would be custom built.



Cost Scenarios

- One-time development costs
- Per-user (student, teacher, or school site) costs
- Per-course costs with additional costs for materials

- Price Ranges (for two years):
 - Supplemental approximately \$2 million
 - Core curricula approximately \$40-\$60 million



Considerations

Big picture:

- Scope of implementation
 - Statewide? Targeted districts?
- Focus opportunity for highly aligned materials?

Specific questions to answer:

- Number of users (districts, buildings, teachers, students)
- Technology capacity of the schools/districts
- Would additional technology infrastructure be needed for implementation?
- Professional development needs and costs



Next Steps...

- Support districts with Supplemental Materials
 - Share results of supplemental review (early Feb.)
 - “Birds of a feather” like-user groups
 - Provide additional information to SBE in March
- Determine improvements future reviews (science, mathematics, etc.)
 - March SBE meeting



Thank You

