Practices & Instructional Strategies that Strengthen Mathematics in Your Title I, Part A Program

Presented By: Kristi Coe, Stephanie Bolinger, Sandra Goetz & Debbie Sells

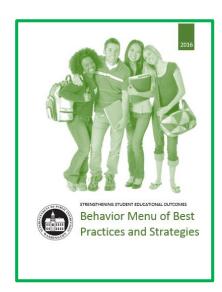


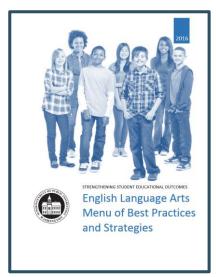


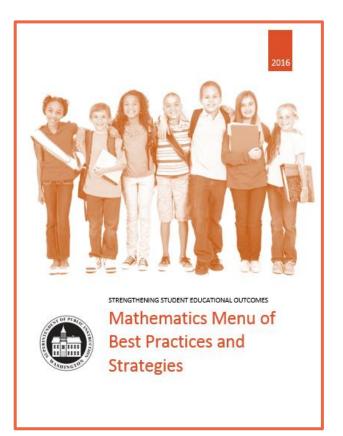
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Strengthening Student Educational Outcomes







Menus of Best Practices & Strategies

Stephanie Bolinger, Mathematics Instructional Coach

17 Years in Education, All Years at Martin Sortun

9 Years as a Math Coach

Sandra Goetz, 5th Grade Teacher

17 Years in Education

10 Years at Martin Sortun

Debbie Sells, 4th Grade Teacher

23 Years in Education

13 Years at Martin Sortun

Introductions



Kent School District:

- 4th Largest District In Washington State
- 21 Title 1 Elementary
 Schools (28 total)

Martin Sortun Elementary:

Total Students: 680

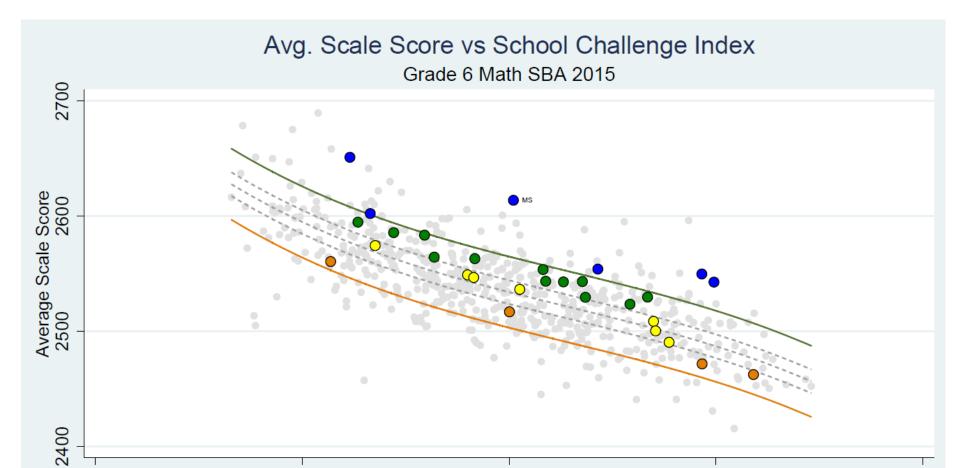
Free/Reduced Lunch: 49%

• English Learners: 26%

Special Education: 4%



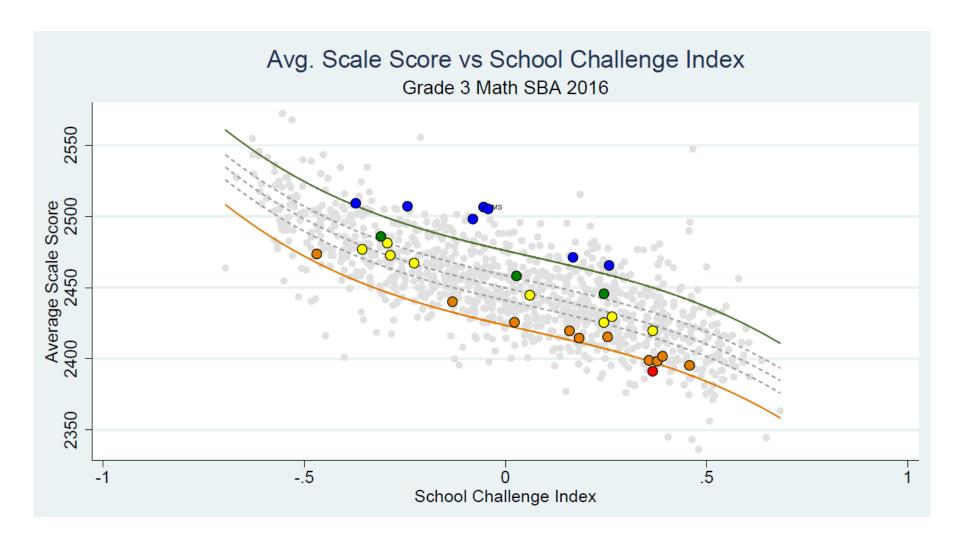




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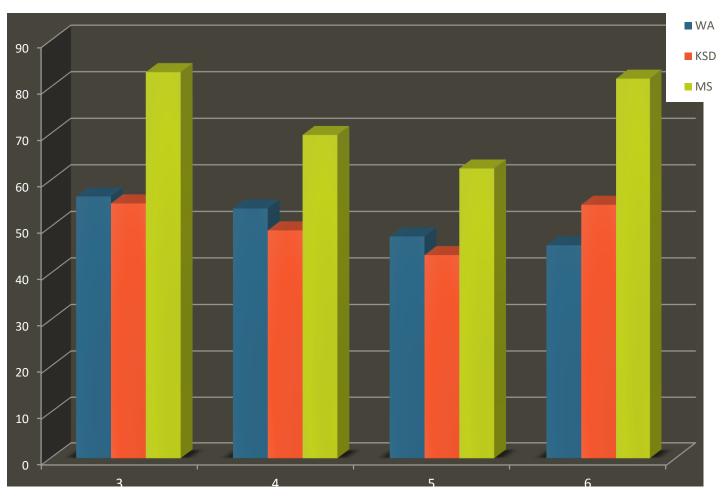


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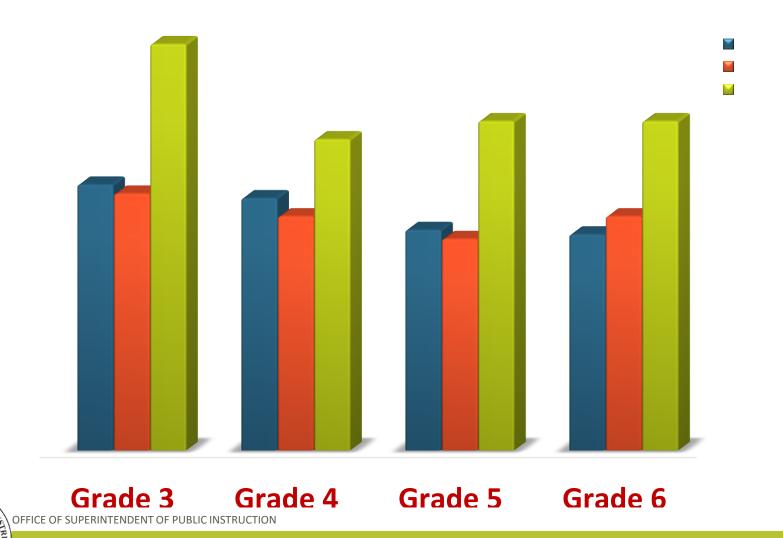
SBA 2015 WA vs Kent vs Martin Sortun





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SBA 2016 WA vs Kent vs Martin Sortun



Goals For Today

- ✓ How to use assessments to drive decision making
- ✓ How to use strategies to strengthen mathematics program
- ✓ How to implement with success

Getting Started



Focus on Students









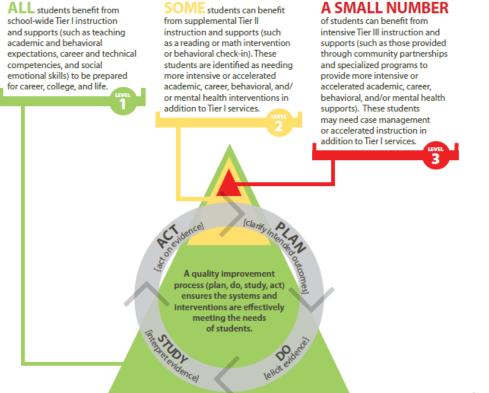


High Expectations for ALL Students AND Teachers

- Teacher and Student Relationships
- All Our Kids, Are all Our Kids
- If It Doesn't Challenge You, It Doesn't Change You
- Growth Mindset/Got Grit?
- FAIL-First Attempt in Learning
- Believe, Battle, Breathe!
- Students and Teachers that Believe They Can, Do!

Productive Struggle





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Figure 1. <u>Multi-Tiered System of Supports</u>, from OSPI.

MTSS & Comprehensive Assessment System

Assessments serve different purposes

Universal Screeners

- Identify potentially at-risk students
- Tend to over identify students
- Take place at scheduled intervals
- Are followed by diagnostic assessments
- Do not drive instructional decisions

MBSP (Monitoring
Basic Skills Progress)
Basic Math Concepts
Assessment by Fuchs,
Hamlett, and Fuchs

Assessments



Assessments serve different purposes

Diagnostic Assessment Tools

- Identify skill levels for students
- Are administered before instruction or after screening
- Inform instructional decisions and intervention plans

iReady Diagnostic Test

Assessments



Assessments serve different purposes

Progress Monitoring Tools

- Identify students making progress
- Given at regular intervals
- Determine the next level of instruction or intervention needed
- Assesses what a student understands as a
 result of the instructional unit

SBA aligned items written by Martin Sortun Teachers per Test and Item Specs

Assessments



Comprehensive
Data Monitoring
and Data Driven
Placement

- Grade level spreadsheets maintain all collected data points
- Placement is determined by data
- Minor adjustments made for special circumstances: ELL, Behavior, personality
- Students are shared between teachers "All Our Kids Are All Our Kids"
- Placement is re-evaluated every 4-6 weeks

Data Responsive Interventions



Sample Grade Level Math Spreadsheet

-		_		-	- 11		,	K	L	141	14		i i i				_	^^	AC	Λυ	70	~*	AW.	~~	Α.
Student Overview					Demographics							ВА	iReady				PM				Fluency				
Student ID	Homeroom Teacher	Strategic Teacher	Last Yr Teacher	Gender	Ethnicity	New to Martin Sortun	Title	ELL	IP	HiCap	4th SBA-Math Score	4th SBA-Math Level	4th EOY iReady Score	4th EOY iReady Lvl	5th BOY iReady Score	5th BOY iReady Lvl	Mid Mod 1	End of Mod 1	Mid Mod 2	End of Mod 2	Correct	Attempted	Accuracy Sept 4-30	Seconds	Rate Sept 4-30
7	- 1			~		~	~	¥	~	~	~		~		Ŧ		Ŧ	~	~	Ŧ	~	~	₩.	~	₩.
		Adv M-No	Sells	М	Black			L4			2560	Level 4	493	Mid 4		Early 5	3	3	2	3	22	25		239	10.9
<u> </u>		Intensive-Yes		М	White		Υ	L3			2308	Level 1	391	Level 1			1	1	1	1	1	11	9.09%	240	240.0
Щ.	Goetz		Steck	М	Other		Υ				2430	Level 2	_			Level 3	2	2	1	1	$\overline{}$	11	63.64%	240	34.3
Щ.	Goetz		Mills	F	Hispanic/Latino			L4			2455	Level 2		Early 4		Level 4	2	2	1	1	5	8	62.50%	240	48.0
Ь.		Intensive-Yes		М	Black	Υ	Υ				2351	Level 1	424				3	1	1	1	3	8	37.50%	240	80.0
Щ.		Bolinger	Sells	F	Other						2659	Level 4	523		531		4	3	3		17	19	89.47%	240	14.1
Щ.			Mills	F	Hispanic/Latino						2571	Level 4	514	Mid 4	479		3	3	3	1	10	13	76.92%	240	24.0
-		Intensive-Yes		F	Hispanic/Latino		Υ				2378	Level 1	453	Level 3	427	Level 2	2	1	2	1	4	7	57.14%	240	60.0
-		Bolinger	Chia	F	White			_			2594	Level 4	_	Mid 4		Early 5	4	3	3	4	12	14	85.71%	240	20.0
-		Bolinger	Steck	М	Black			_	B/SS		2634	Level 4		Mid 4		Mid 5	4	4	4	4	13	13	100.00%	240	18.5
		Bolinger	Sells	М	Asian			L4			2572	Level 4		Mid 4	_	Mid 5	4	4	4	3	18	18	100.00%	240	13.3
		Bolinger	Sells	М	White						2581	Level 4		Mid 4		Mid 5	4	3	3	3	20	22	90.91%	240	12.0
		Adv M-No	Steck	М	Asian			L3			2561	Level 4		Mid 4		Early 5	4	3		3	20	23	86.96%	240	12.0
	Goetz		Chia	F	Pacific Islander		Υ	<u> </u>			2430	Level 2	458				3	2	1	2	1	5	20.00%	240	240.0
	Goetz		NEW	M	Other	Υ	Υ	<u> </u>			2459	Level 2		Early 4	467		4	4	1	1	14	18		240	17.1
	Goetz		Sells	F	White		Υ	-			2421	Level 2	407	Level 1	452	Level 4	2	1	1	1	4	13	30.77%	240	60.0



Build trusting relationships with classroom teachers L Expertise in content, standards, and pedagogy Provide feedback in a nonevaluative format On-going, continuous coaching



Professional Leadership

 Comprehensively knowledgeable on K-6+ math standards and best practice through ongoing personal professional development



Professional Leadership

- Provide job embedded support directly to classroom teachers for both math content and pedagogy with a focus on the standards
 - Non Evaluative Coaching
 - Professional Learning Communities
 - Targeted Professional Learning



Professional Leadership

 Oversee and evolve a cohesive building model for math instruction and intervention that moves the building forward in terms of current standards and best practice.



- ☐ Shared vision
- Collaboration
- Data-informed decisions
- Clear protocol
- Continuous improvement
- Student outcomes

Professional Learning Communities



Supported Learning Through Collaboration

- Focus on student learning and the standards
 - Collaborative analysis of data and student work
 - Teacher strengths and weaknesses are an opportunity to support and learn from each other
 - Shared action plan for differentiation

Professional Learning Communities



On-going
 Research-based
 Practice and feedback
 Increase educator expertise
 Aligned to student achievement goals

Targeted Professional Learning



Supported Learning Through Instructional Leadership

- Studio Days: Model Lessons by Coach or Expert Teacher
- Release time to identify, create, or evaluate common formative assessments and to analyze data
- Book Study-Number Talks and Classroom Discourse

Targeted Professional Learning

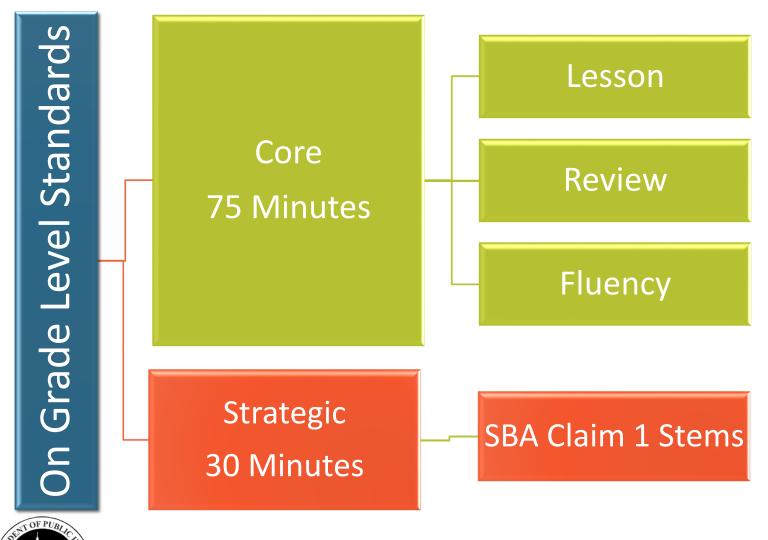


□ Aligned to core instruction
 □ Opportunities for discourse
 □ Concept & skill development
 □ Tier 2 students
 □ Quality of instruction

Double Dosing



Martin Sortun Math Model





75 Minutes Core Math Instruction Tier 3 Tier 2 Tier 1 *Advanced-46% Level 4 SBA

Martin Sortun Math Model

Tier 3 "Intensive"

- Small Group of 6 or less
- Certificated Interventionist
- Focus: On Grade Level Foundational, Priority
 Standards

Tier 2 "Strategic"

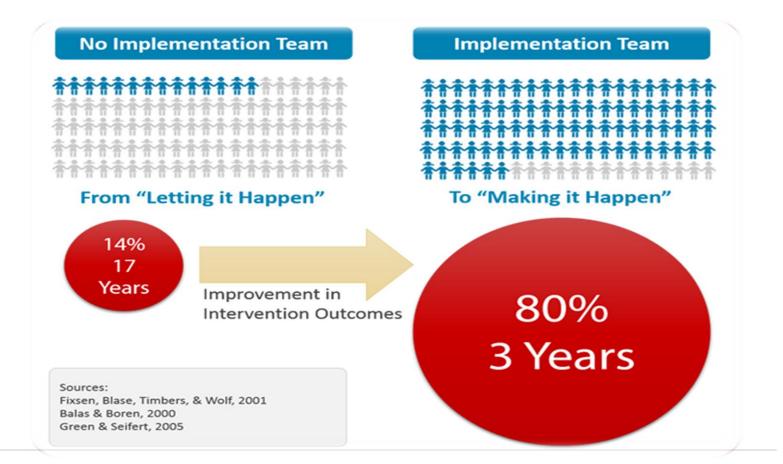
- Small Group of 6-12
- Certificated Classroom Teacher
- Focus: On Grade Level Priority Standards

Tier 1 "Benchmark" & "Advanced"

- Large Group of 20-24; 24-28
- Certificated Classroom Teacher;
 Certificated Math Specialist
- <u>Focus:</u> All On Grade Level Standards;
 Above Grade Level Standards & Higher Rigor



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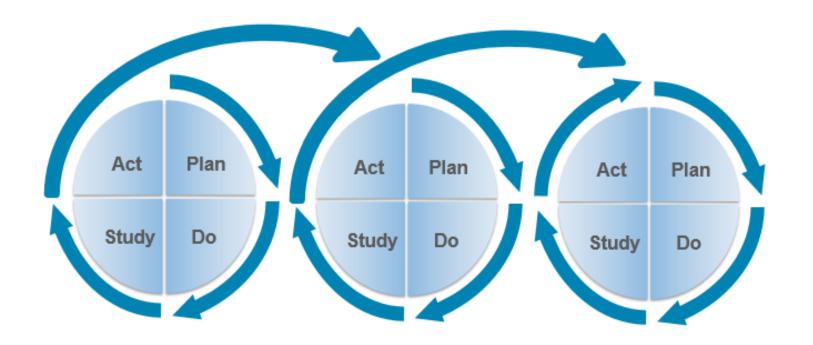




"It has been said that implementation is 90% of impact. The very same intervention applied in one school, locale, or state may yield quite different results than when employed in another. Problems of inadequate resources, weak commitment, or poor fit are often cited to explain disappointing outcomes."

J.A. O'Day and M.S. Smith 2016











Supported Change Through Instructional Leadership

Rapid evolution to a model is driven by:

- Changing Standards
- Changing Summative Assessments
- Changing Resources



Supported Change Through Instructional Leadership Ideal evolution to a model is driven by:

- Teachers
- Instructional Coaches providing support

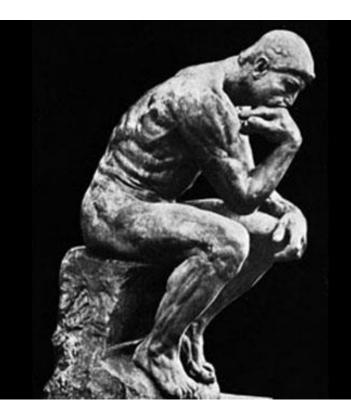
It refines current models and provides foundational consistency for at least 3 years



...delivering an intervention as it was intended to be delivered according to the implementation team's plan.

Implementation Fidelity





How does your district currently ensure implementation fidelity?

How does your district currently review the implementation effectiveness of instruction/interventions?

Fidelity & Effectiveness



Questions?



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Thank you!

Stephanie Bolinger, Mathematics Coach, Kent School District Stephanie.Bolinger@kent.k12.wa.us

Sandra Goetz, 5th Grade Teacher, Kent School District Sandra.Goetz@kent.k12.wa.us

Debbie Sells, 4th Grade Teacher, Kent School District Debbie.Sells@kent.k12.wa.us

Kristi Coe,

LAP Program Supervisor, Mathematics & Research, OSPI

Kristi.Coe@k12.wa.us, 360-725-6190

