

How we will work together today....

- Instruction from us
- · Experience the work together
- Process with colleagues on how the information presented compares with the work in your setting

Brain Rules by DR. JOHN J. MEDINA, developmental molecular biologist

"Plenty of studies show that the brain is incapable of multitasking when it comes to paying attention." -From Rule # 4

You will discover the need to "intently attend" in order to participate in activities that require the use of interpersonal communication techniques.

Please <u>intently attend</u> to your colleagues



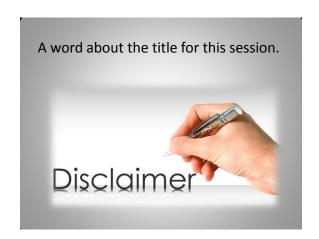
Norms of Collaborative Work Garmston and Wellman

Pausing
Paraphrasing
Posing Questions
Putting Ideas on the Table
Providing Data
Paying Attention to Self and Others
Presuming Positive Intentions

Objectives

- Confirm understanding of the <u>structural</u> elements of RTI
- Confirm understanding of the <u>instructional</u> elements of RTI
- Work to identify areas of your RTI system that can be refined based on information learned today





Defining RTI

With RTI, schools identify students at risk for poor learning outcomes, monitor student progress, provide evidence-based interventions and adjust the intensity and nature of those interventions based on a student's responsiveness.

(National Center on Response to Intervention)

Core RTI Principles

- We can effectively teach all children
- Intervene early
- Use a multi-tier model of service delivery
- Use a problem-solving method to make decisions within a multi-tier model
- Use research-based core materials and, scientifically validated interventions/instruction to the extent available
- Monitor student progress to inform instruction
- Use data to make decisions
- Use assessment for 3 different purposes
 - Screening, diagnostic, progress monitoring

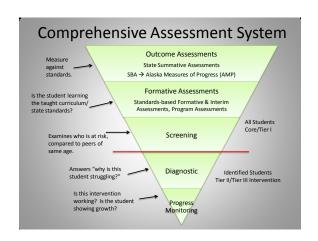
NASDSE, 2006

Structural/Instructional

- Structural
 - Scheduling
 - English Language Arts
 - Mathematics
 - Universal screener
 - Progress monitoring
 - Tiered instruction
 - Collaboration meetings
 - Instructional materials
- Instructional
 - Explicit
 - Systematic
 - High Engagement
 - Sequenced with prior skills
 - Gradual Release of Responsibility
 - Immediate Corrective Feedback
 - High-Level Questioning

Essential Components of RTI

- Screening
- Progress Monitoring
- School-wide, Multi-Level Prevention System
 - Tier 1
 - Tier 2
 - Tier 3
- Data-Based Decision Making for:
 - Instruction
 - Evaluating effectiveness
 - Movement within the multi-level system
 - Disability identification (in accordance with state law)



Universal Screening

- PURPOSE: identify students who are at risk of poor learning outcomes
- FOCUS: conducted for all students
- TOOLS: involves brief assessments that are valid, reliable, and evidence based
- TIMEFRAME: administered more than one time per year (e.g., fall, winter, spring)

Characteristics of a Screener

Reliable and valid indicator of student achievement

Simple, efficient, and of **short** duration to facilitate administration by teachers

Provides assessment information that helps teachers plan

Sensitive to the improvement of students' achievement over time

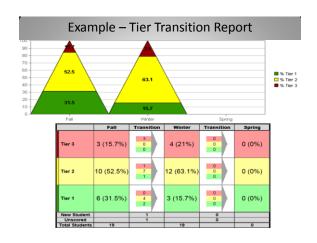
Purpose of the Risk Analysis Report

- Provides complementary data to support team-based RTI instructional decisions.
- Supports RTI by providing multiple sources of data.
- Enables users to drill deeper into each category for additional information.
- Usually includes attendance, behavior, academic assessments, grades, and credit data.

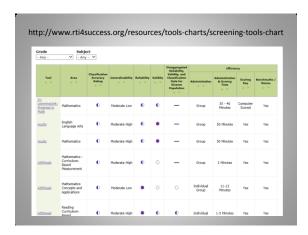


Purpose of Screening

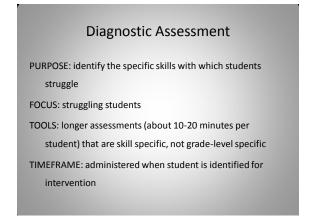
- Identify students at risk for poor learning outcomes
- Identity students who need additional assessment (i.e., progress monitoring) and instruction (i.e., Tier 2/Tier 3)
- Provide data on the effectiveness of the core instruction and curriculum



Example – Scores and Percentiles Report									
Student ▼	Fall 📤				Winter				
Student	Corrects	Errors	Accuracy	Service Code 📤	Corrects	Errors	Accuracy	Service Code	
Targets	77				105				
1	33	5	86.8%	G	51	1	98.1%	G	
2	52	5	91.2%	G	75	2	97.4%	G	
3	56	4	93.3%	G	75	0	100.0%	G	
4	9	10	47.4%	G	14	6	70.0%	G	
5	8	10	44.4%	G	16	5	76.2%	G	
6	34	5	-	G	55	1	98.2%	G	
7	38	5	88.4%	G	73	0	100.0%	G	
8	5	10	33.3%	G					
9					30	5	85.7%	G	
10	19	7	73.1%	G	57	4	93.4%	G	
11	48	4	92.3%	G					
12	17	10	63.0%	G	48	5	90.6%	G	
13	12	7	63.2%	G	21	6	77.8%	G	
14	17	8	68.0%	G	20	7	74.1%	G	
15	5	7	41.7%	G	4	6	40.0%	G	
16	9	8	52.9%	G	24	4	85.7%	G	
17	20	7	74.1%	G	32	7	82.1%	G	



Discuss – Elbow Partner How do you leverage the screening data as a critical component of your comprehensive assessment system?



Diagnostic Tools Information is used for designing intervention or instructional emphasis in core instruction. Quick Phonics Screener (QPS) Diagnostic Decoding Survey (DDS) CORE Phonics Survey. Math Reasoning Inventory - www.mathreasoninginventory.com Assessing Math Concepts - www.assessingmathconcepts.com Mathematics Assessment Supplement – NCII

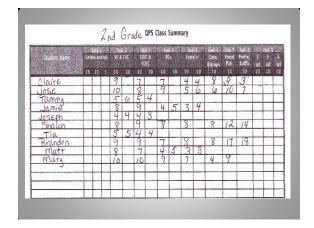
Schools Often Use Only Six Steps 1. Establish a research-based core program appropriate to your student and teacher population. Use data to determine if the core programs are effective. 2. Screen students and use data from screening assessment to identify those who may not be reading as well as expected for a given grade level. 3. Group students with similar instructional needs based on the screening data. 4. Plan instruction based on the data acquired during screening. 5. Teach students in small flexible groups. Use progress monitoring data to adjust instruction. 6. Progress monitor students and use the data to adjust instruction accordingly.

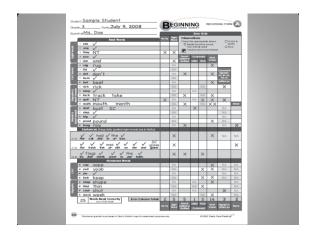
Seven Steps to Achieve the Best Results

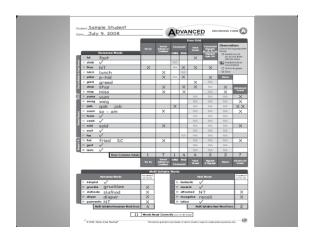
- Establish a research-based core reading or language arts program appropriate
 to your student and teacher population. Use data to determine if the core
 programs are effective.
- Screen students and use the data from screening assessment to identify those who may not be reading as well as expected for a given grade level.
- Diagnose weaknesses and use diagnostic assessment data to pinpoint the specific weaknesses of those students identified during screening who are not performing as expected.
- 4. <u>Group students</u> with similar instructional needs based on the screening and diagnostic data.
- 5. Plan instruction based on the data acquired during screening and diagnosis.
- 6. <u>Teach</u> students in small, flexible groups. Use progress monitoring data to adjust instruction.
- 7. Progress monitor students and use the data to adjust instruction accordingly.

Т	QUICK PHONICS SCREENER Student Copy - page 2
Task 6(a)	lick sling sunk wrap ship whiz moth sigh chin knob
Task 6(b)	The ducks chomp on the knot. What is that on the right? Wring the wet dish cloth in the sink.
Task 7	foam roast • flea creak • mood scoop • steep bleed raise waist • fold scold • spray gray • shout mount spoil join • joy royal • haul fault • brawl straw

discount dismiss · nonsense nonstop · index intent · return regard station motion • famous jealous • madness witness • mission session • Task 8 portable drinkable • fastest dampest • battle handle • mouthful fearful • traffic plastic • beware beneath • decay demand moment crater bacon spider escape crazy mascot address basket punish amputate liberty dominate elastic entertain Task 9(b) practical electric volcano innocent segregate particular contaminate community superior vitality Task 9(c) evaporate inventory prehistoric solitary emergency

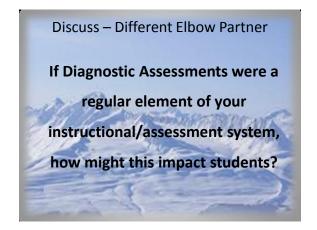






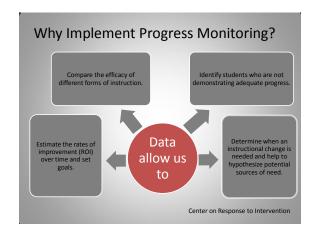
Grade Level Action Plan

School:	Grade: Second Grade	Date: Oc	tober 2009 –	January 2010
Area of Focus	Instructional Plan	Who Delivers?	Resources Needed?	Measure of Effectiveness
VC & CVC	Reading Mastery	Teacher	RM	Lesson tests
Tammy	(90 minute replacement core)		materials	_
Joseph				Progress Monitoring
Tia				Monitoring
CVCC &	Reading Mastery	Teacher	KD.	Lesson tests
CCVC	(90 minute replacement core)	- 1	Materials	_
Tammy	- T			Progress Monitoring
Joseph	- A A A			Monitoring
Tia	^ \\ \			
VCe	Quick Erage	Teacher	Word list	Progress
Jamie	Odd Man C	Parapros		Monitoring
Matt	Skill Builders, Ray id Jaming Skill Sheets		Skill	(RCBM, end of
	Dictation		builders	first grade passages)
	Chalkboard intervention activities			passages)
	 10 minutes per day 			
Vowel=r	Quick Erase	Teacher	Word list	Progress
Claire	Odd Man Out	Parapros		Monitoring
Jose	Find the Pair	***************************************	Skil1	(RCBM, end of
Jamie	Skill Builders, Rapid Naming Skill Sheets		builders	first grade passages)
Matt	Dictation			passages)
	 10 minutes per day 			
Cons. Digraph	Skill Builders, Rapid Naming Skill Sheets	Teacher	Skill	Progress
Jose	Dictation	Parapros	Builders	Monitoring
Mary	Matching Picture/ Digraph cards			(RCBM, end of
	 10 minutes per day 		Cards	first grade
		1		passages)









Progress Monitoring

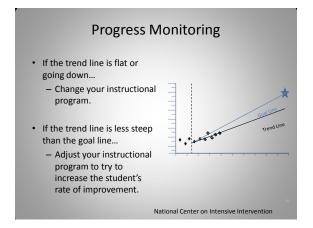
- PURPOSE: monitor students' response to Tier 2 and Tier 3
 instruction
- FOCUS: students identified through screening as at risk for poor learning outcomes
- TOOLS: brief assessments that are valid, reliable, and evidence
 based
- TIMEFRAME: students are assessed at regular intervals (e.g., weekly, biweekly, or monthly)

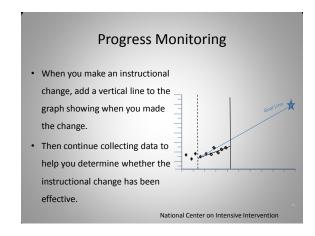
Center on Response to Intervention

Research indicates that student achievement increases when:

- PM data are frequently collected
- PM data are graphically displayed and reviewed
- Decision rules—to continue or modify instruction—are explicit
- PM data collection and decision rules are implemented with integrity
- Clear direction exists for instructional modifications and alternatives

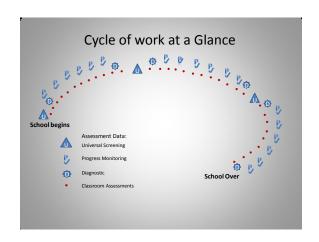
PM Instructional Decision Making Decision rules for PM graphs Based on four most recent consecutive scores Based on student's trend line



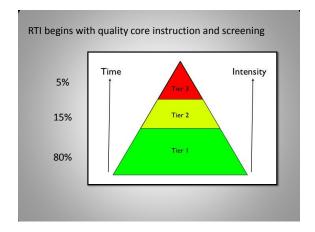


Title A	Area	Reliability of the Performance Level Score (i)	Reliability of the Slope ①	Validity of the Performance Level Score ©	Predictive Validity of the Slope of Improvement ①	Disaggregated Reliability and Validity Data ①
AIMSweb	M-CBM				•	
AIMSweb	Math Computation	•	•	0	-	-
AIMSweb	Math Concepts and Applications	•		•	0	_
AIMSweb	Oral Reading Fluency (R-CBM)	•	•	•	•	•
AIMSweb	Test of Early Literacy - Letter Naming Fluency	•		•	•	•
AIMSweb	Test of Early Literacy - Letter Sound Fluency	•	•	•	•	•
AIMSweb	Test of Early Literacy - Nonsense Word Fluency	•		•	•	•
AIMSweb	Test of Early Literacy - Phonemic Segmentation Fluency	•	•	•	•	•
AIMSweb	Test of Early Numeracy - Missing Number	•	•	•	•	•
AINSweb	Test of Early Numeracy - Number ID	•	•	•	•	•
AIMSweb	Test of Early Numeracy - Oral Counting	•		•	•	
AIMSweb	Test of Early Numeracy - Quantity Discrimination	•	•	•	•	•
Curriculum-Based Measurement in Reading (CBM-R)	Letter Sound Fluency	•	•	•	•	-



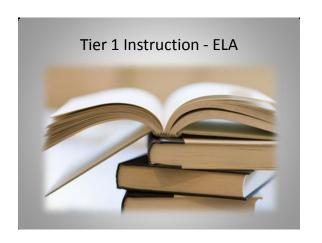






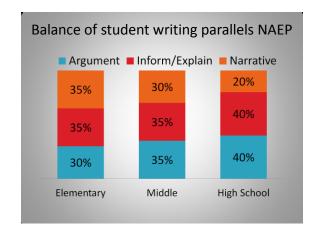


Tier 1 Core Instruction FOCUS: ALL students INSTRUCTION: Instructional materials and instructional practices that are research based; aligned with state standards; and instruction is high quality and incorporates differentiation SETTING: Regular education classroom ASSESSMENTS: Screening, formative and summative assessments



Alaska ELA Standards Require Three Shifts in Literacy 1. Building knowledge through content-rich nonfiction 2. Reading, writing, and speaking grounded in evidence from text, both literary and informational 3. Regular practice with complex text and its academic language

Instructional Shifts in Writing Increased emphasis through the grades on Analysis of literary and informational texts Argument and evidence Informative/explanatory writing Frequent short, focused research projects Comparison and synthesis of multiple sources Decreasing emphasis through the grades on Narrative, especially personal narrative



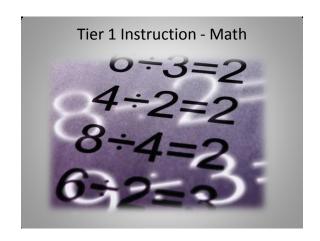




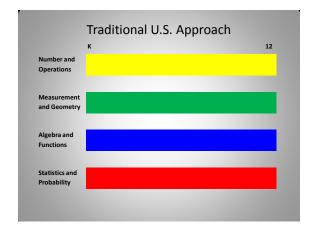
Implications for Instruction

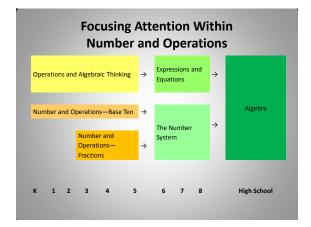
Regard these standards as an invitation to explore, invent and pilot some new ideas.

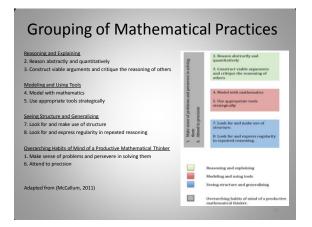
- Plan for rigorous conversations between students
- Teacher is the facilitator, not the leader
- Engage students in the SL standards all day long



General Shifts in Mathematics Focus: focus strongly where the standards focus Coherence: think across grades, and link to major topics in each grade Rigor: in major topics, pursue with equal intensity — conceptual understanding, — procedural skill and fluency, and — applications

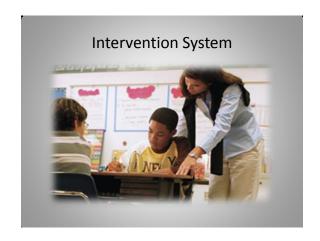






New to You

In this first full year of Alaska ELA and Math
Standards implementation, how well is core
instruction addressing the rigorous
expectations in at your site?







Tier 2

- FOCUS: Students identified through screening as at risk for poor learning outcomes
- INSTRUCTION: Targeted, supplemental instruction delivered to small groups; Instruction is delivered with fidelity (i.e., consistent with the way it was designed)
- SETTING: General education classroom or other general education location within the school
- ASSESSMENTS: Progress monitoring, diagnostic

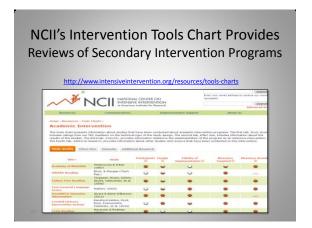
Tier 2 Instruction

- Evidence-based
- Aligns with and supports core instruction
- Implementation fidelity based on developer guidelines
- Delivered by well-trained staff in optimal group sizes
- Decisions are based on valid and reliable data and criteria are implemented accurately
- Supplements core instruction

Key Questions About the Tier 2 Intervention

- Has the student been taught using an evidence-based secondary intervention program (if available) that is appropriate for his or her needs?
- Has the program been implemented with fidelity?
 - Content
 - · Dosage/schedule
 - Group size
- Has the program been implemented for a sufficient amount of time to determine response?

National Center on Intensive Intervention



Intensifying Tier 2 Interventions

- · Decrease group size.
- · Increase frequency or duration of sessions.
- Change interventionist to someone with greater expertise.
- Break tasks into smaller steps, compared to less intensive levels of instruction or intervention.
- Provide concrete learning opportunities (including role play and use of manipulatives).
- Use explicit instruction and modeling with repetition to teach a concept or demonstrate steps in a process.

National Center on Intensive Intervention

Tier 2 Intervention Program: Student Example—Kelsey

Background: Kelsey presented serious reading problems, reading at an early second-grade level at the beginning of fourth grade.

Intervention program:

Kelsey's teacher selected a research-validated program that addressed phonological awareness, word study, and fluency skills.



National Center on Intensive Intervention

Tier 2 Intervention Program: Kelsey

Fidelity

■ Group size: six students

Session length: 20-40 minutes per session

■Frequency: three to four sessions per week

■ Program duration: seven weeks

 Instructional content and delivery: explicit instruction covering all components laid out in the instruction manual

■ Progress monitoring: R-CBM

National Center on Intensive Intervention

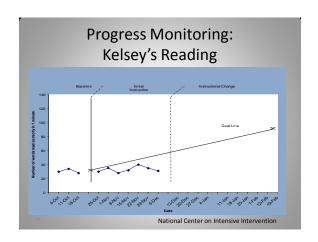
Progress Monitoring:

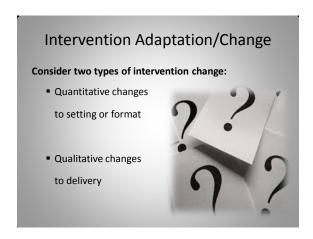
Reliable and valid tool: Kelsey's teacher implemented progress monitoring using R-CBM assessments that were a match for her reading skills.

Detect improvement: This progress monitoring tool is appropriate to her skill level, allowing her teacher to detect changes in Kelsey's reading.

Rate of progress: Based on Kelsey's progress monitoring graph, she was not progressing at the rate needed to meet her goal.

National Center on Intensive Intervention

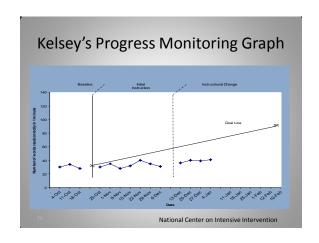




Try quantitative change(s) first... Increase intervention frequency, length of sessions, or duration. Decrease group size.

Consider qualitative changes second... Instruction based on learner characteristics (e.g., addressing working memory or attention problems) Skill level of interventionist Content delivery How students respond The amount of adult feedback and error correction students receive Frequency/specificity of checks for retention The materials, curriculum, or whole intervention (could be a complete change in program)

Quantitative Intervention Adaptation: Kelsey Kelsey's teacher intensified her instruction by adding an additional 15 minutes of instruction per session. Despite this change in intervention length, Kelsey continued to make insufficient progress. National Center on Intensive Intervention



Informal Diagnostic Assessment

- Progress monitoring assessments help teams determine when an instructional change is needed.
- Informal diagnostic assessments allow teams to use data to help determine the *nature* of the intervention change needed.

Informal Diagnostic Assessment: Kelsey

- To determine the nature of the instructional change needed, Kelsey's teacher conducted an error analysis of Kelsey's most recent R-CBM data.
- She also administered a phonics survey to determine Kelsey's decoding strengths and weaknesses.

National Center on Intensive Intervention

Intervention Adaptation: Kelsey

Diagnostic assessment showed that Kelsey had difficulty applying decoding strategies to vowel teams. Her teacher applied the following intensive intervention principles to intensify her decoding instruction:

- Incorporated fluency practice of newly taught teams, with specified mastery criteria
- Provided explicit instruction and error correction
- Frequently checked for retention with reteaching as needed

 National Center on Intensive Intervention



Evaluation of Kelsey's Progress

- Kelsey's reading is improving but not fast enough to achieve her goal. Another instructional change may be needed.
- Kelsey's teacher may collect additional diagnostic data if needed to make an informed instructional change.
- Kelsey's teacher will continue to collect progress monitoring data and meet with the intervention team to evaluate progress and modify the plan as needed.

National Center on Intensive Intervention



Tier 3

- FOCUS: Students who have not responded to core instruction or Tier 2 intervention
- INSTRUCTION: Intensive, supplemental instruction delivered to small groups or individually
- SETTING: General education classroom or other general education location within the school
- ASSESSMENTS: Progress monitoring, diagnostic

Who needs intensive intervention?

- Students with disabilities who are not making adequate progress in their current instructional program
- Students who present with very low academic achievement and/or high-intensity or high-frequency behavior problems
- Students in a tiered intervention program who have not responded to Tier 2intervention programs delivered with fidelity

National Center on Intensive Intervention

Tier 3 Instruction

- Evidence-based or based on validated progress monitoring methods for individualizing instruction
- More intense than Tier 2
- Implementation fidelity
- Delivered by well-trained staff in optimal group sizes
- Decisions are based on valid and reliable data, and criteria are implemented accurately.
- Address general education curriculum in appropriate manner for students.

Before Implementing Tier 3

- ✓ The student's Tier 2 instruction is an appropriate match for his or her needs.
- ✓ The instruction has been delivered for a sufficient amount of time to determine response.
- ✓ The instruction has been delivered as planned for example, if the intervention is supposed to take place for 30 minutes three times per week, did that actually happen?

National Center on Intensive Intervention

Examining the Evidence Base

- Type/Source
- Population
- Desired Outcomes

NCII Interventions Tools Chart http://www.intensiveintervention.org/chart/instructional-intervention-tools

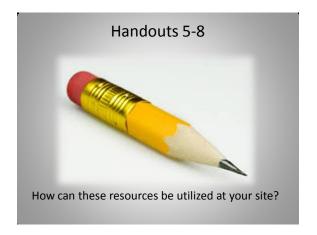
What Works Clearinghouse

Best Evidence Encyclopedia http://www.bestevidence.org/

What If Evidence-Based Interventions Aren't Available?

- Use them when available and consider augmenting current offerings, if feasible.
- Also consider:
 - Remediation materials that came with your core program materials
 - Expert recommendations (if evidence-based programs are not available)
 - Standards-aligned materials

National Center on Intensive Intervention



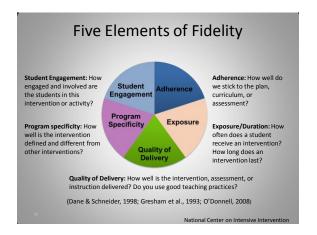




Why Is Fidelity Important?

- Ensures that instruction has been implemented as intended
- Allows us to link student outcomes to instruction
- Helps in the determination of intervention
 effectiveness and instructional decision-making
 (Pierangelo & Giuliani, 2008)

National Center on Intensive Intervention

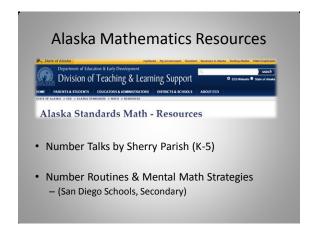


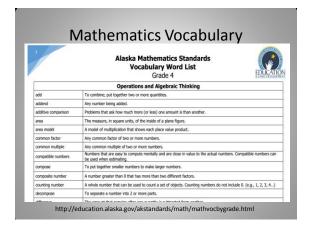
New to You

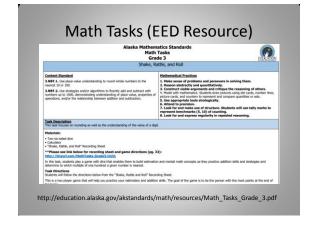
Think about this expanded view of fidelity

Identify one strength and one area to be improved in the delivery of Tier 2 or Tier 3 interventions at your site.

Planning Standards-Aligned Instruction in an RTI System







Instructional Considerations INTENSIVE INTERVENTIONS FOR STUDENTS STRUGGLING IN READING AND MATHEMATICS A Practice Guide

Research-based guidance that reflects "best practices" for intensifying instruction in reading and mathematics for students with significant learning difficulties in K-12, including students with disabilities.

4 Considerations

- Supporting cognitive processes of students
- Intensifying instructional delivery
- · Increasing learning time
- · Reducing instructional group size.

Recent research about cognitive processing

There are two groups of students whose academic performance is significantly lower than their grade level peers.



Within both of these groups, some students demonstrate difficulties with cognitive processing that negatively influence their reading and mathematics performance.

How do cognitive processing difficulties impede academic success?

Many students who struggle academically also have poor memory.

Short term memory

Working memory

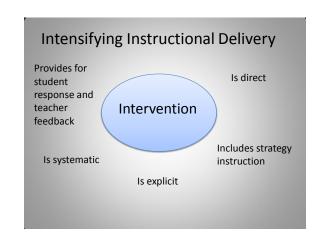


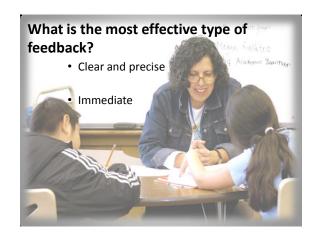
How to help ...

- Teach self-regulation strategies
- Model problem solving
- Make thinking visible
- Teach students to be metacognitive
- Teach memory-enhancement techniques
- Offer specific feedback

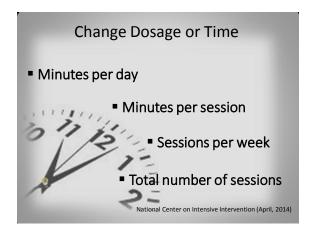
Cognitive Processing: Research Advances Interventions should combine practices that reduce the impact of processing deficits with academic content, not treat them in isolation.

National Center on Intensive Intervention (April, 2014)











Duration of intensive interventions

- · Dependent on many factors
 - Student related
 - · School related
- Research suggests that students in K-2 can achieve
 positive outcomes when participating in interventions
 up to 20 weeks long. However, some students,
 particularly students in the upper grades who are
 several grades behind, may require much longer
 interventions.

What is the ideal group size for providing intervention?

- Small groups, up to four students, may provide the most intensive intervention at the elementary level.
- Research has not identified one ideal intervention group size that increases outcomes for all or most students, particularly in older students in Grades 6–12.

National Center on Intensive Intervention (April, 2014)

New to You

Which of the four considerations needs the most immediate attention at your site?

How will you approach *building capacity* in the school to address this consideration?

Resources for Selecting Interventions

Interventions that are built to resolve the root cause of the student's poor academic performance have been found to produce stronger effects.

Daly, Martens, Hamler, Dool & Eckert, 1999; Graham, Harris, & MacArthur,

Effective Intervention Practices

Interventions with strong effects consistently:

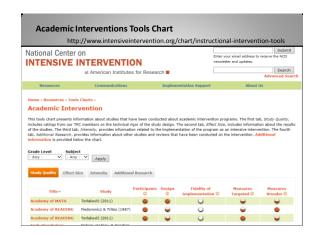
- Correctly target the student's deficit
- Provide explicit instruction in the skill
- Provide an appropriate level of challenge
- Allow for sufficient repetition for the skill to be retained
- Utilize immediate corrective feedback

Burns, VanDerHeyden & Boice, 2008

Selecting the wrong intervention commonly occurs when those making intervention selections do not have adequate data on student learning and capability.

- Which interventions are readily available to the teacher.
- · Which interventions are familiar.
- Which interventions require the least amount of time or expertise.







Intensive Interventions: A Teacher's Toolkit This toolkit provides activities and resources to assist practitioners in designing and delivering intensive interventions in reading and mathematics for K-12 students with significant learning difficulties and disabilities. The tools provide both important information (summarized from Intensive Interventions for Students Struggling in Reading and Mathematics) and broad guidance to help practitioners learn about, plan for, implement, reflect on, and refine their delivery of

intensive interventions.



Structured Dialogue-Sort and Elaborate Directions Individuals 1. Using the 3-5 post-it ideas you created. Table Groups 2. When all are ready, one person places a note in the center of the table saying, "This make sense to me because..." 3. Another person places a note connecting to the first saying, "This makes sense to me because....and it relates to the first one in these ways..." 4. Repeat the pattern, or start a new pattern when you need a new thread of thinking

In Closing... Teaching all students requires a school level system for early identification of at-risk students and a school level system for providing those students with the most effective interventions.