RTI Conference Smalls School Design January 23, 2015

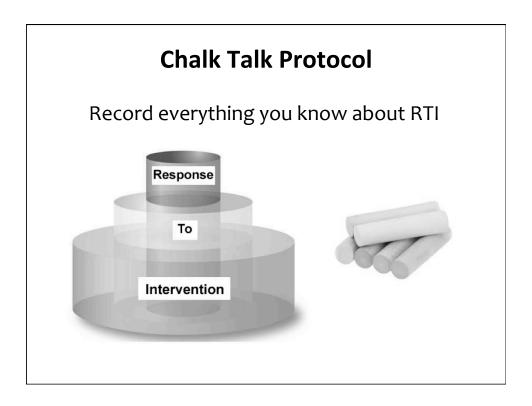


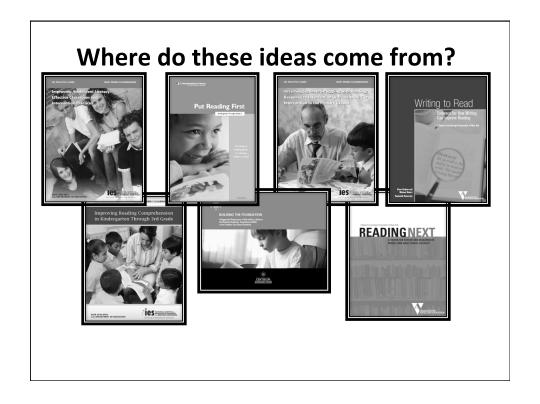
Group Norms

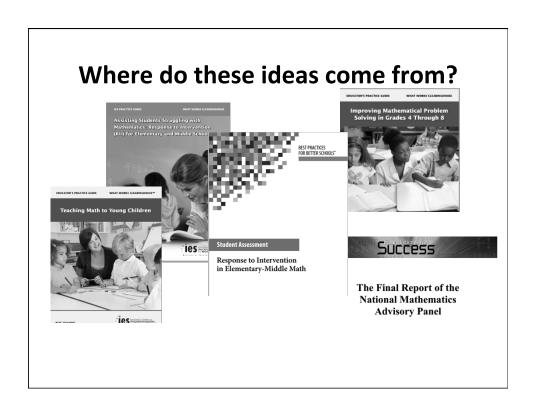


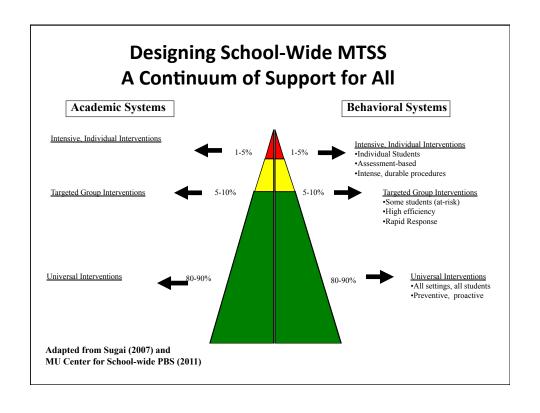
How will we spend our day?

- Morning
 - Foundational Understandings of RTI
 - Standard Protocol vs Problem Solving
 - Comprehensive Assessment System
- Afternoon
 - Strong Core Instruction in Literacy and Math
 - Designing Effective Intervention
 - Collaboration









Structural/Instructional Examples

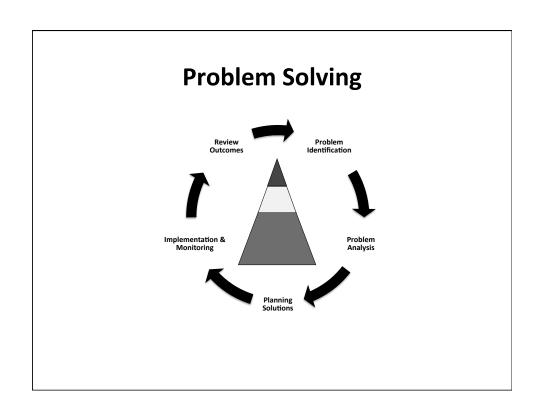
- Structural
 - 90 minute reading block
 - Universal screener
 - Progress monitoring
 - Tiered instruction
 - Collaboration meetings
 - Core Reading program
 - Core Math program

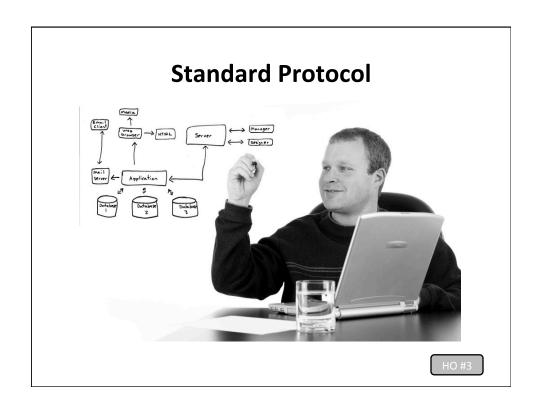
- Instructional
 - Explicit
 - Systematic
 - High Engagement
 - Sequenced with prior skills
 - Gradual Release of Responsibility
 - Immediate Corrective feedback

Standard Protocol vs Problem Solving

- How do you define them?
- What are the attributes of each of them?
- How do you select which one to use?
- How do you implement them effectively?

Jigsaw HO #2





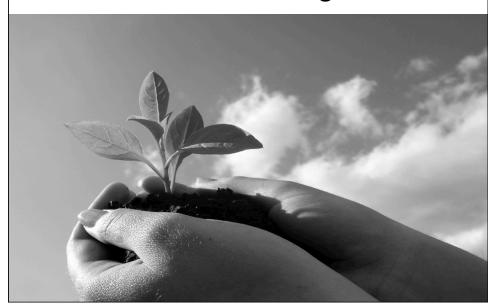




Example of Hybrid Approach

- May, Aug., Jan.:
 - Use of Standard Protocol for placement and intervention decisions
- Oct., Nov., Dec., Feb:
 - Use of Problem Solving to determine if the intervention is working and what potential adjustments might need to be made

Reflection on learning so far...



Establishing Non-negotiables



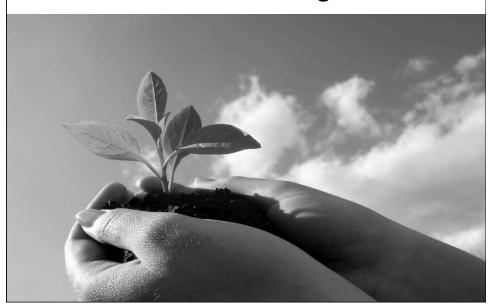
Establishing Non-negotiables

- What are the important Non-negotiables for academic?
 - Universal Screening for all students
 - Instructional time allocation
 - Instructional materials to be used (ex. core reading program)
 - Agreed upon instructional approaches (use of learning configurations)
 - Agreed upon Scope and Sequence of Instruction
 - Whole and Small group instruction
 - Intervention for struggling students

Establishing Non-negotiables

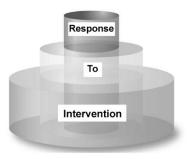
- What are the important Non-negotiables for behavior?
 - Universal Screening for all students
 - Accurate attendance data recorded
 - Tardy
 - Excused vs. Unexcused absences
 - Tier 1 Behavioral Plan in place for all students
 - Office Referral System in Place
 - Accurate discipline data recorded
 - Intervention for struggling students

Reflection on learning so far...

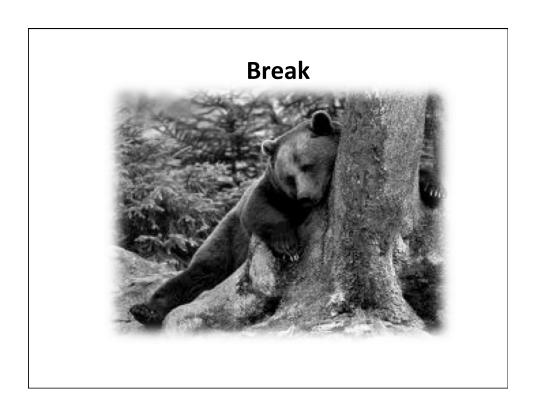


Chalk Talk Protocol

 Add to your chalk talk protocol on the outside of you circle.

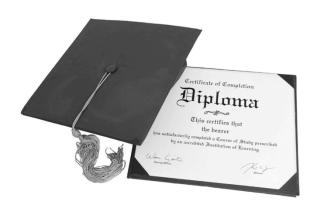


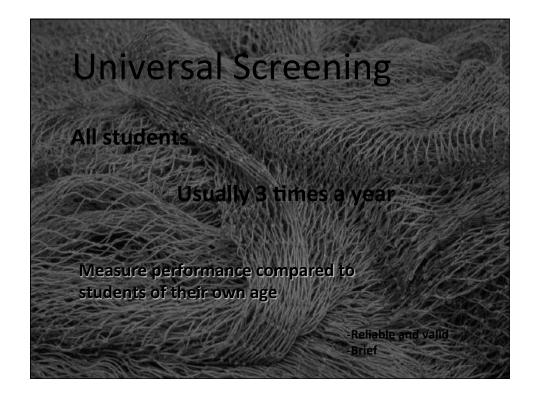


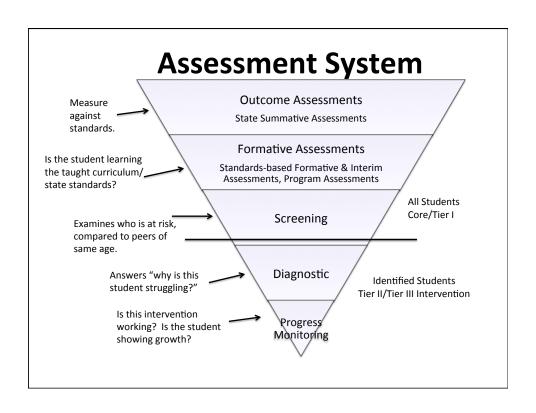


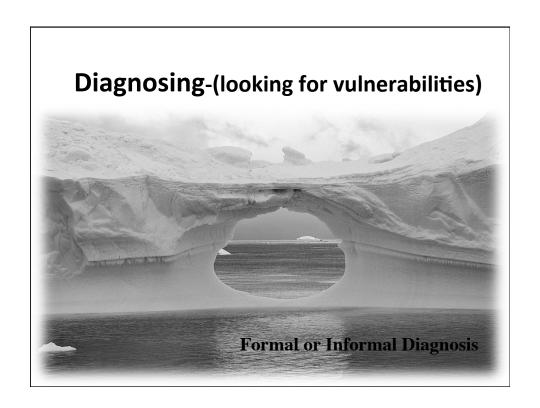












Diagnostic Tools

- Not grade level specific
- Skill specific
- Should be used with struggling students
- Usually takes about 20 minutes per child
- Information used for designing intervention or instructional emphasis in core instruction



Mathematics

National Center on INTENSIVE INTERVENTION

at American Institutes for Research





Mathematics Assessment Supplement

Student Worksheets, Teacher Instructions, and Answer Keys

Counting
Basic Facts
Place Value Concepts
Whole Number Computation
Fractions as Numbers

	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.
	foam roast • flea creak • mood scoop • steep bleed
Task	raise waist • fold scold • spray gray • shout mount
7	spoil join • joy royal • haul fault • brawl straw

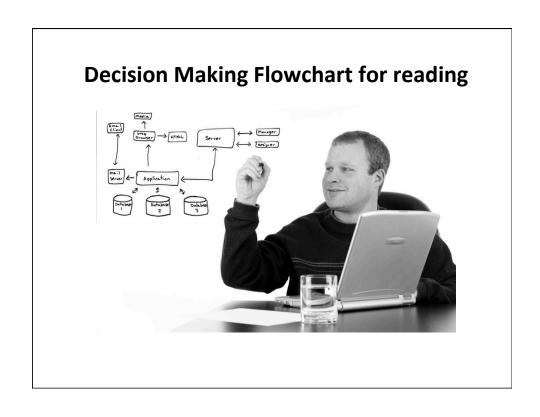
			2r	nd	Gra	ide.	QPS (Class	Sumn	nary							
Student Name	Leti	Task ter-so	unds	Tas VC 8	k Z CVC	TA CV C	0k 3/ / CC & CVC	1a V	k.4	Tas Voiv	k5 el+r	Task 6 Cons. Digraph	Task 7 Vowet Pair	Task 8 Prefix/ Suffix	2 syl	Task 9 3 syl	4 syl
Claire Jose Tammy	26	2.2	2	9 10 5	ln	7 8 5	4	7		4 5	4 6	8	3 10	3° 7	-	10	10
Jamie Joseph Shawn				8 4 8	4	9	3	4	5	3	4	Ŕ	12	14			
Brandon Matt				598	5	499	4	7	5	8	3	8	17	18			
Mary				10		/0		9		7		4	9				

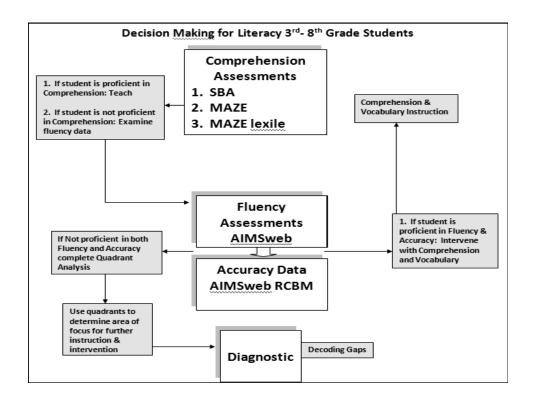
Schools Often Use Only Six Steps

- 1. <u>Establish an evidence-based core reading or language arts program</u> appropriate to student and teacher population. Use DATA to determine if the core programs are effective.
- 2. <u>Screen students</u> and use DATA from screening assessment to identify those who may not be reading as well as expected for a grade level.
- Group students with similar instructional needs based on the screening DATA.
- 4. Plan instruction based on DATA acquired during screening.
- 5. <u>Teach</u> students in small, homogenous groups. Use progress monitoring DATA to adjust instruction.
- 6. <u>Progress monitor</u> students and use DATA to adjust instruction accordingly.

Seven Steps to Achieve the Best Results

- Establish an evidence-based core reading or language arts program appropriate to student and teacher population. Use DATA to determine if the core programs are effective.
- 2. <u>Screen students</u> and use DATA from screening assessment to identify those who may not be reading as well as expected for a grade level.
- 3. <u>Diagnose weaknesses</u> and use diagnostic assessment DATA to pinpoint the specific weaknesses of 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. <u>Plan instruction</u> based on DATA acquired during screening and diagnosis.
- 6. <u>Teach</u> students in small, homogenous groups. Use progress monitoring DATA to adjust instruction.
- 7. Progress monitor students and use DATA to adjust instruction accordingly.

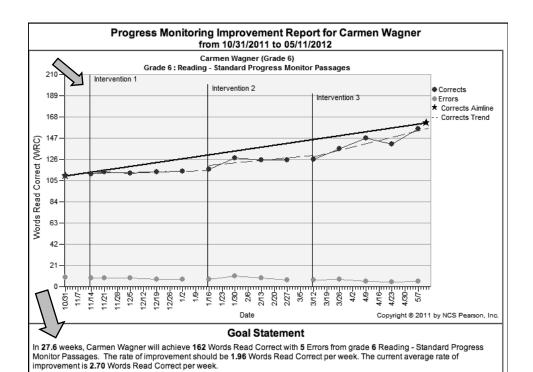


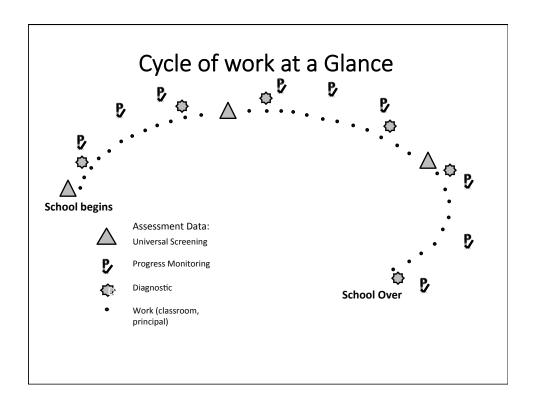


Progress monitoring



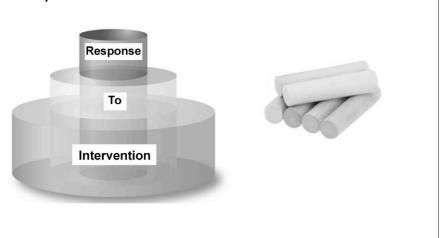
- Is the intervention having a positive impact?
- For struggling students





Chalk Talk Protocol

 Add to your chalk talk protocol on the outside of your circle.



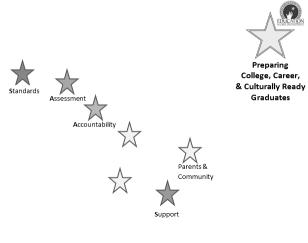




Effective Core Instruction







NCRTI Recommends Different Evidence Standards Across the Tiers

Research-based curricula:

- Recommended for core instruction across subjects.
- Components have been researched and found to be generally effective.
- Curriculum materials have not been rigorously evaluated as a package.

Evidence-based intervention:

- Recommended for Tier 2 and Tier 3
- Materials evaluated using rigorous research design
- Evidence of positive effects for students who received the intervention

(NCRTI, 2010)

Why do we need a core?

 A core reading or core math program provides a system of instruction for students as they move through grade levels.



Standards of practice must be clear because

successful core instruction is the most important thing you can do in RTI.

Core Instruction in Reading



Essential Components of Reading

- Phonological Awareness
- Phonics
- Fluency
- Comprehension
- Vocabulary



Structuring the 90 minute block

- What are the important things to think about?
 - Essential Components of Reading
 - How much time to allocate for each component
 - Whole group and Small group instruction
 - Scope and Sequence

HO #4 & #5

Examples of 90 minute schedules



Managing Small Groups

Skill grouping

- Flexible based on what the child has demonstrated
- 2nd graders are grouped who didn't do well on "oi" sound last week
- 5th grade readers are grouped who are strong at "summarizing," not on "inference"

Ability grouping

- Students generally read at the same level, but it may be for different reasons
- A student who struggles due to decoding vowels is grouped with a student who struggles with reading speed.

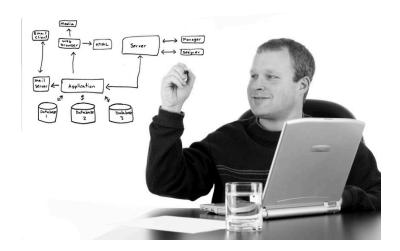
Small group text is at the students instructional level

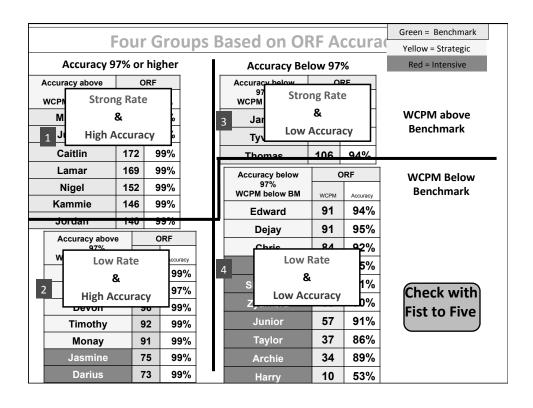
- Understand why students are in a group together
- Use multiple sources of data to determine the level
 - Screening data
 - Unit tests
 - Observations

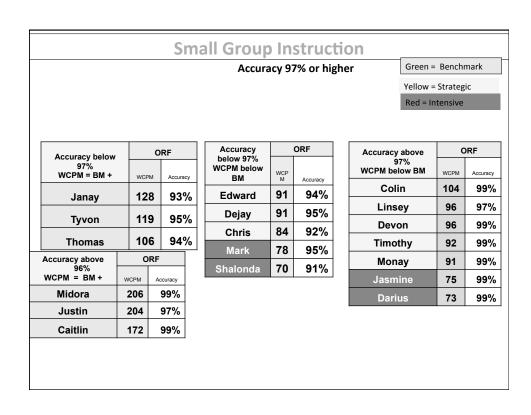
Using data to design 90 minute block

- How do we use data to decide how to build the 90 minute block?
- How do I know what needs more or less emphasis?
 - Using Diagnostic data to refine 90 minute block

Decision Making Flowchart for reading





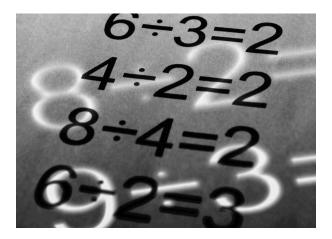








Core Math Instruction



General Shifts in Mathematics

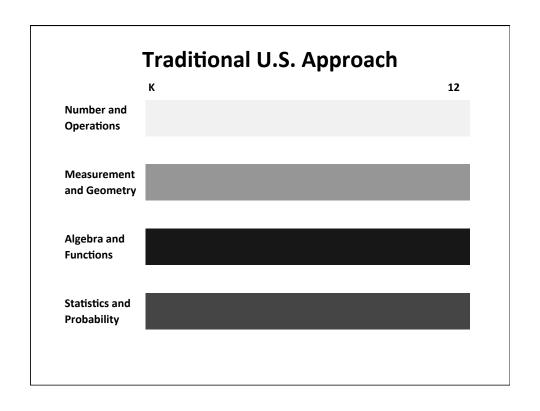
Focus: focus strongly where the standards focus

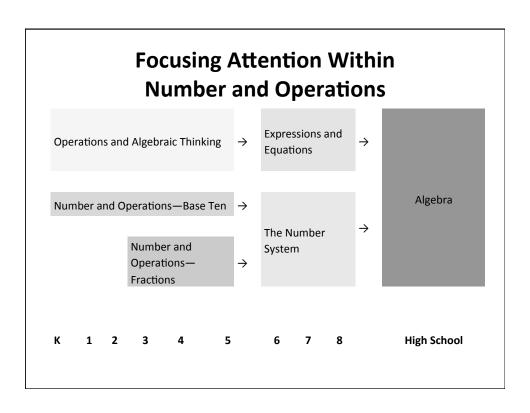
Coherence: think across grades, and link to major topics in each grade

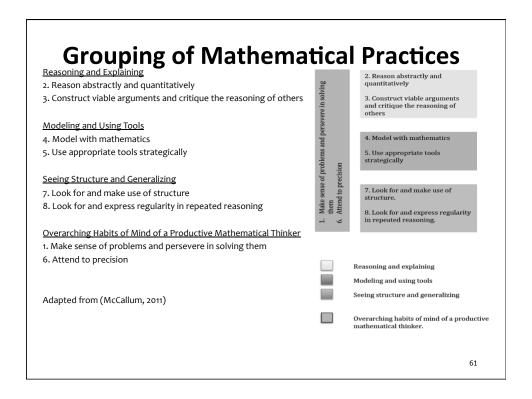
Rigor: in major topics, pursue with equal intensity

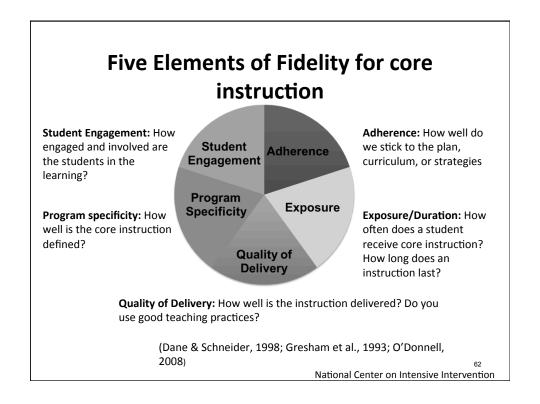
- conceptual understanding,
- procedural skill and fluency, and
- applicationsHO2

Handout : Math Overview







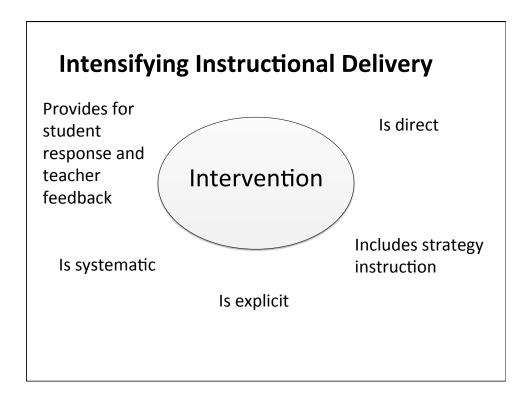


Designing an Effective Intervention System



Considerations

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



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

Tier 2 at the Secondary Level

For middle and high school students, homogeneous instruction can be provided to groups as large as 10 to 16 students for 30 to 50 minutes per day or one class period, at least three to four days per week. When using specific programs, it is necessary to follow program guidelines if group sizes are specified.

McCook, 2006

Tier 3

- FOCUS: Students who have not responded to Tier 1 or Tier 2
- 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

Tier 3 Instruction

- Evidence-based
- 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.

Middle School Research

- Study designed to see which approach yielded the best results:
 - Teacher designed intervention based on data
 - Programmatic approach

Response to Intervention for Middle School Students With Reading Difficulties: Effects of a Primary and Secondary Intervention (Vaughn et al.)

Tier 3 at the Secondary Level

Intensive support for adolescent readers is provided in small, homogenous groups of five or less students for 50 to 60 minutes per day. Again, when using specific programs, it is necessary to follow program guidelines if group sizes are specified.

Denton, et al., 2007

- 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?

The Tiers – Supplemental and Intensive What are the differences?

More time needed for intervention.

More intensive and explicit instruction.

More customization of instruction.

Smaller group size.

Increased opportunities to respond.

Immediate corrective feedback.

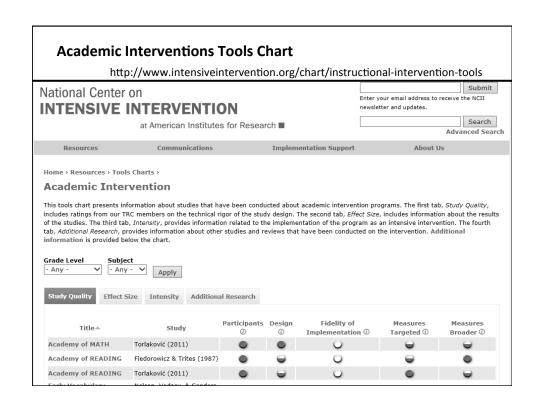
More frequent progress monitoring and decision making.

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.



	Tier 1
Moderate	 Screen all students to identify those at risk for potential mathematics difficulties and provide interventions to students identified as at risk.
	Tiers 2 and 3
Low	 Instructional materials for students receiving interventions should focus intensely on in-depth treatment of whole numbers in kindergar- ten through grade 5 and on rational numbers in grades 4 through 8. These materials should be selected by committee.
Strong	 Instruction during the intervention should be explicit and systematic. This includes providing models of proficient problem solving, verbalization of thought processes, guided practice, corrective feedback, and frequent cumulative review.
Strong	Interventions should include instruction on solving word problems that is based on common underlying structures.
Moderate	 Intervention materials should include opportunities for students to work with visual representations of mathematical ideas and interven- tionists should be proficient in the use of visual representations of mathematical ideas.
Moderate	6. Interventions at all grade levels should devote about 10 minutes in each session to building fluent retrieval of basic arithmetic facts.
Low	7. Monitor the progress of students receiving supplemental instruction and other students who are at risk.
Low	Include motivational strategies in tier 2 and tier 3 interventions.





Behavior interventions

- Behavioral common reasons for problems
 - It is a small group or classwide problem.
 - The student needs help learning the appropriate behavior.
 - The student is able to avoid (e.g. academic or social task) something when they engage in the behavior.
 - The student is able to gain something (e.g. attention) when they engage in the problem behavior.
 - The student needs help doing the behavior in a new setting, time or manner. For example, the student can do the behavior in one class, but not in another class or the lunchroom.

Behavior considerations

With those two basic questions it is possible to find evidence based interventions developed for that specific problem. After you select an intervention to try out there are some key next steps.

- Select a time to do the intervention. Logically this should be when the child displayed the problem behavior.
- 2. Implement the intervention in that time period.
- 3. Continue to collect data for the intervention time period.
- Compare the data collected in the intervention phase to previously collected outcomes to see if the child responds to the intervention techniques. The best manner to do this is to graph out the data.

Designing and Delivering 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.

What to do if student is not responding?

Increase Learning Time



Change Dosage or Time

- Minutes per day
- Minutes per session
- Sessions per week
- Total number of sessions

National Center on Intensive Intervention (April, 2014)

Why should I change intervention time?

When well designed, increased time accelerates learning by:

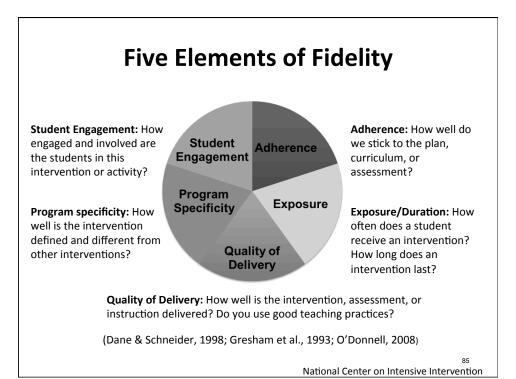
- Allowing for more instruction.
- Providing more practice with feedback.
- Increasing students' engaged learning time.

National Center on Intensive Intervention (April, 2014)

Suggested length and frequency of intensive intervention?

Consider:

- How far the student is below grade level
- The length and frequency of the previous interventions
- The complexity of the learning tasks
- Student stamina and attention span



Chalk Talk Protocol

- Add your final pieces to your chalk talk protocol
- Celebrate what you have learned!

