The Why of RTI

Where we started...

- IDEIA and NCLB were companion laws.
- They were mutually referential.
- Together, they envisioned a seamless system of supports, based on the use of scientifically based instruction, in both general and regular education.

Where we are now...

- The mission is (still) the development of proficiency in basic skills (particularly reading) for all students.
- MTSS is the structure needed to implement the mission.
 - Standards-aligned curricula
 - Core instruction based on science
 - Efficient and effective universal screening
 - Data-analysis teaming
 - Robust interventions
 - Progress monitoring
 - Decision-making based on students' RTI

Why RTI for SLD

- When RTI is used in a fully functioning MTSS, important data are gathered that can inform the eligibility for special education:
 - Is the student deficient in level of performance?
 - Is the student's RTI not sufficient to realize meaningful growth in a reasonable amount of time? (Can the student catch up?)
 - Does the student need specially designed instruction that goes beyond the capacity of general education to make meaningful gains?
 - What strategies have been shown to work (and not work) during tiers of intervention (i.e., what should specially designed instruction be for the student)?

Why not MTSS/RTI and then "testing"?

- RTI for SLD encourages and supports the development and maintenance of an effective MTSS. Other approaches are divorced from MTSS.
- The data from MTSS/RTI is sufficient to address the first two criteria of SLD identification as well as the rule-out for lack of instruction (criterion #4) and the determination of the degree of need for special education.
- A full and individual evaluation is expedited because much critical data are already gathered.
- Other "testing" approaches have serious flaws.

Problems with the Ability-Achievement Discrepancy Approach

- Can under-identify students with SLD (childfind issues).
 - Need to wait until discrepant to deliver identify as SLD
 - False negatives (the slow learner myth)
- Can over-identify students with SLD.
 - False positives (high IQ; average achievement)
- Data gathered don't link with intervention.

Problems with the Patterns of Strength and Weaknesses (PSW) Approach

- Can over-identify students with SLD.
 - False positives (pattern conforms with theory; average achievement)
- Can under-identify students with SLD (childfind issues).
 - Adds additional requirements that would exclude students who would qualify as SLD using RTI (i.e., students with deficient achievement but lacking a theory-based pattern)
- Data gathered don't link with intervention.
- PSW is not recognized in Pennsylvania Special Education Regulations for SLD.

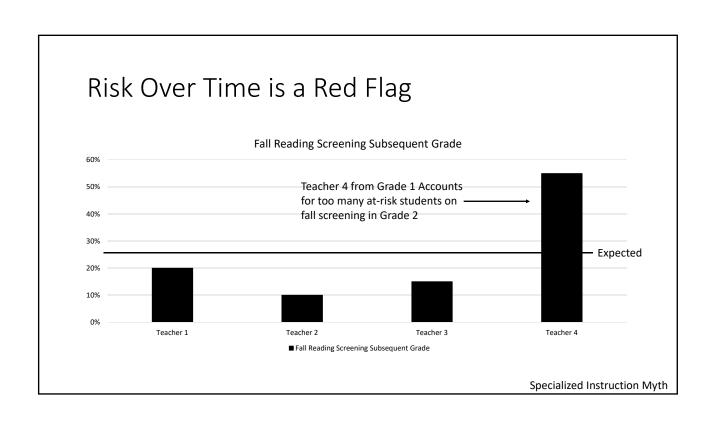
Other benefits of using RTI for SLD

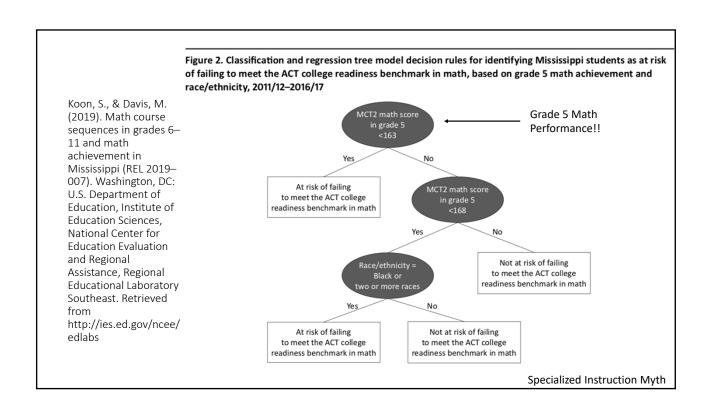
• It frees up highly trained school psychologists and other specialists to focus attention on improving student academic achievement and mental health in both general and special education.

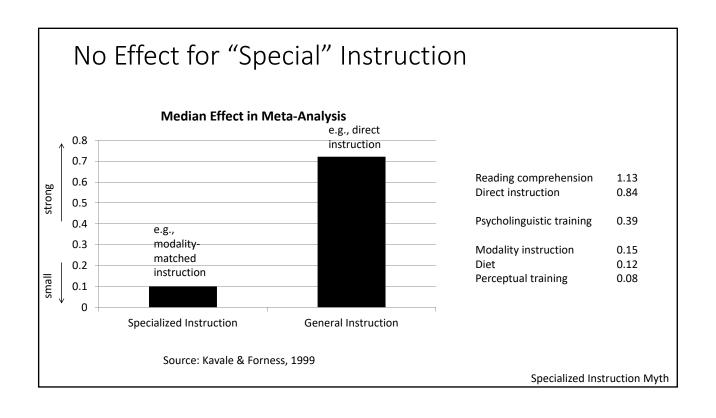


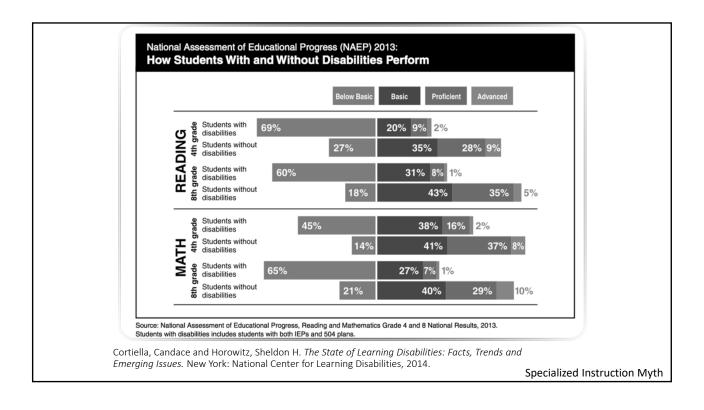
Lessons Learned

- 1. Specialized instruction is a myth. Intensified instruction is not.
- 2. Effective instruction saves lives.
- 3. Use classwide intervention.
- 4. Manage interventions.
- 5. Align instruction with student need.
- 6. Assess less.
- 7. Lead more effectively.

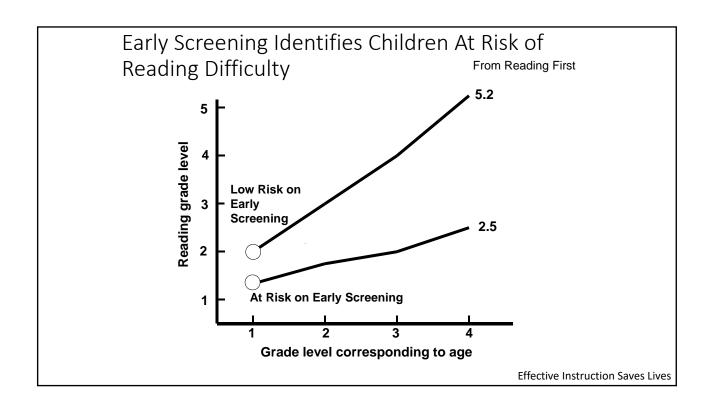


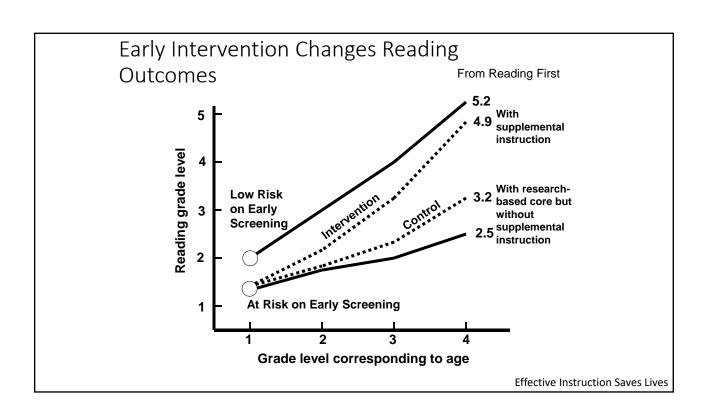


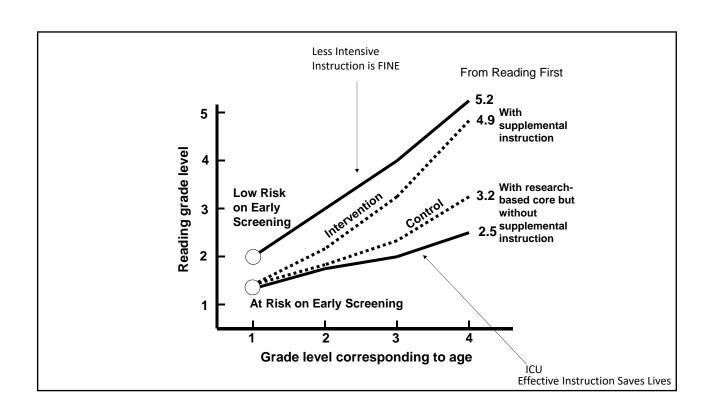










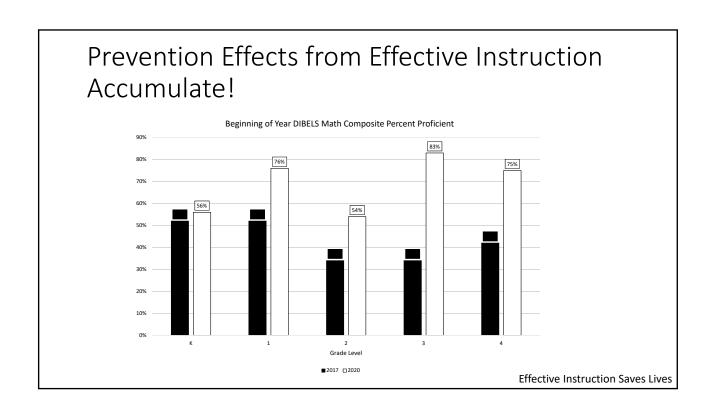


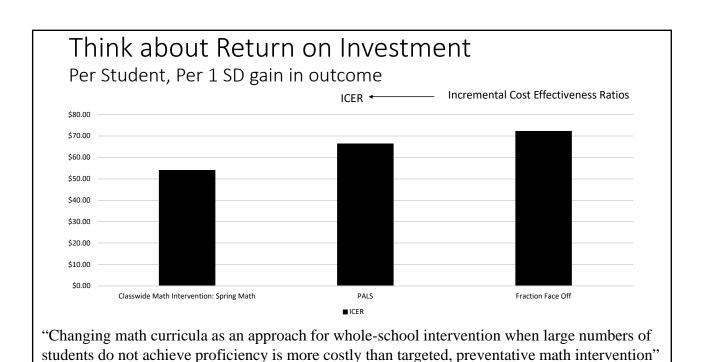
What You DO Makes a Difference

Source: Hattie (2009)

Teaching	Effect Size
Quality of teaching	0.77
Reciprocal Teaching	0.74
Teacher-Student Relationship	0.72
Providing Feedback	0.72
Teaching student self-verbalization	0.67
Meta-Cognition Strategies	0.67
Direct Instruction	0.59
Mastery Learning	0.57
Average	0.68

Working Conditions	Effect Size
Within-class	0.28
grouping	
Adding \$	0.23
Reducing Class Size	0.21
Ability Grouping	0.11
Multi-Grade/Age	0.04
Classes	
Open v. Traditional	0.01
Classes	
Summer break	-0.09
Retention	016
Average	0.08
	Effective Instruction





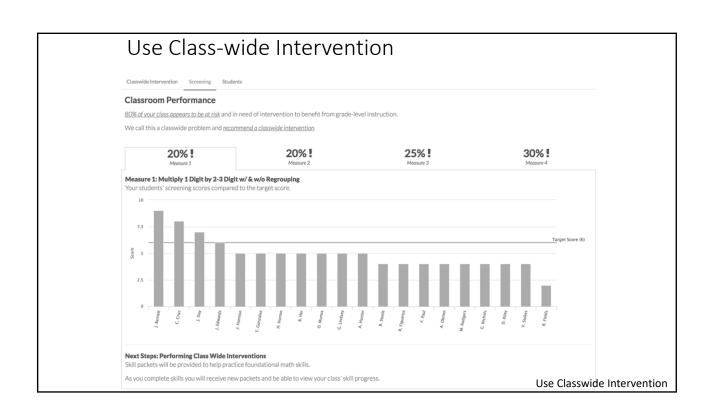
(Morsi et al.)

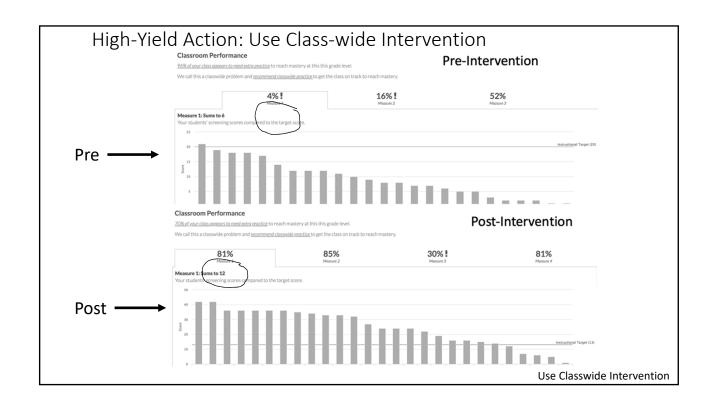
Effective Instruction Saves Lives

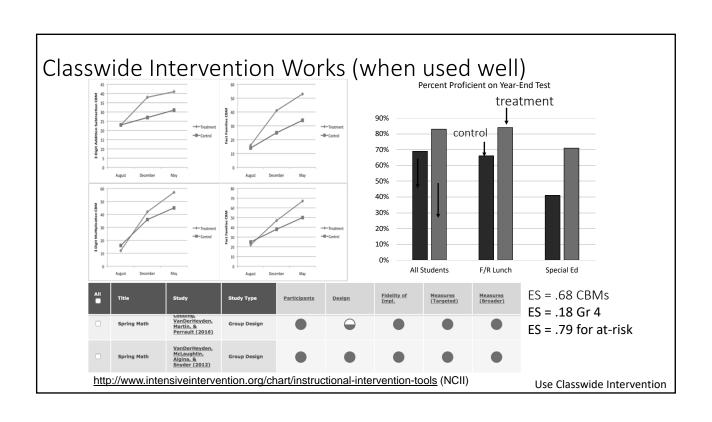


Lesson 3: Use Classwide Intervention. Why?

- It takes 15-20 min per day.
- It's curriculum neutral and supplements.
- All students show benefits.
- It makes future risk decisions more accurate





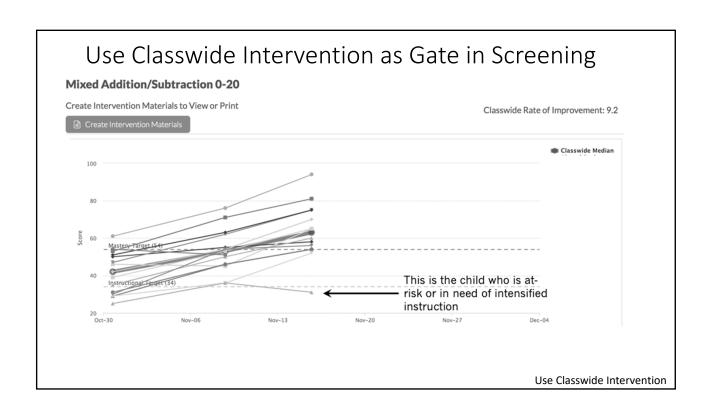


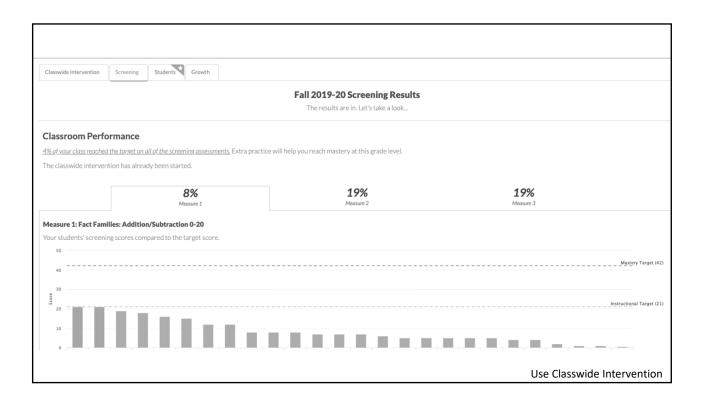
When Managed, Classwide Intervention Works!

	Absolute Risk Reduction	Number Needed to Treat
All Students	15%	7
Students receiving F/R Lunch	18%	6
Students receiving Special Education Services	39%	3
Low-Performing Students	44%	2

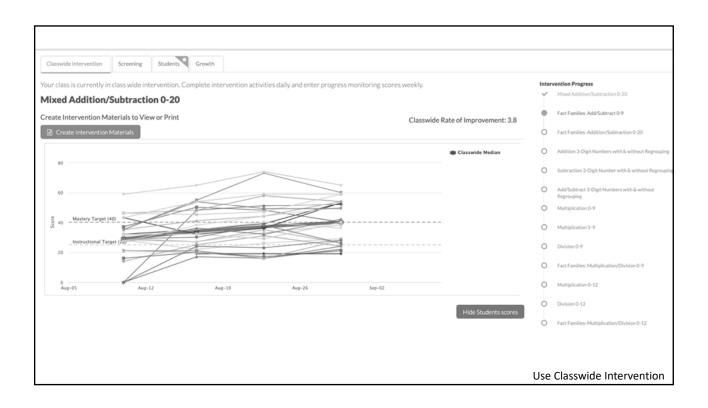
Source: VanDerHeyden, McLaughlin, Algina, & Snyder, 2012; VanDerHeyden & Codding, 2015

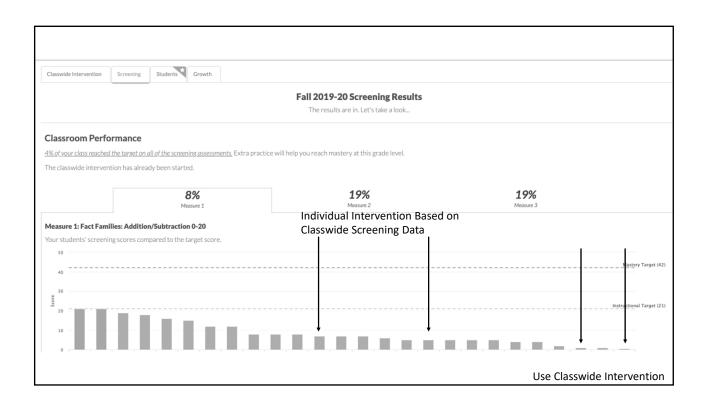
Use Classwide Intervention

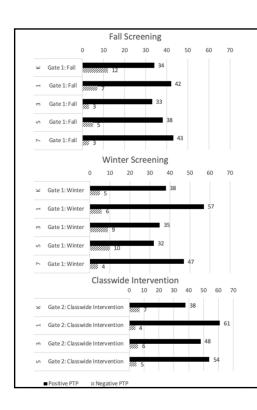












Classwide Intervention Lowers Base Rate of Risk & Improves Decision Accuracy

VanDerHeyden, Broussard, & Burns (2019). Classification Agreement for Gated Screening in Mathematics: Subskill Mastery Measurement and Classwide Intervention.

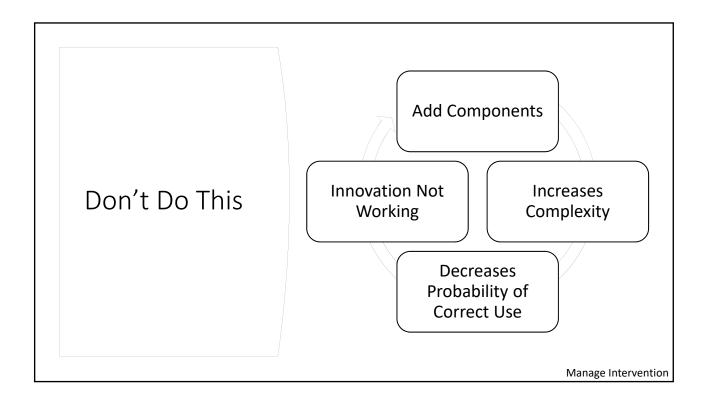
Assessment for Effective Intervention.

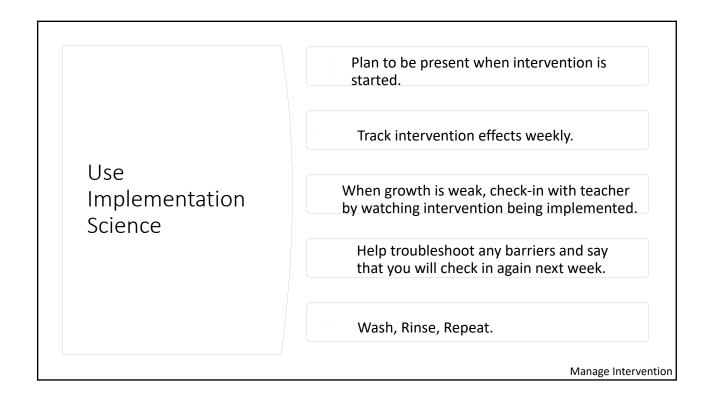
https://www.researchgate.net/publication/336702020 Classification Agreement for Gated Screening in Mathematics Subskill Mastery Measurement and Classwide Intervention

Use Classwide Intervention



Lesson 4: Manage Intervention







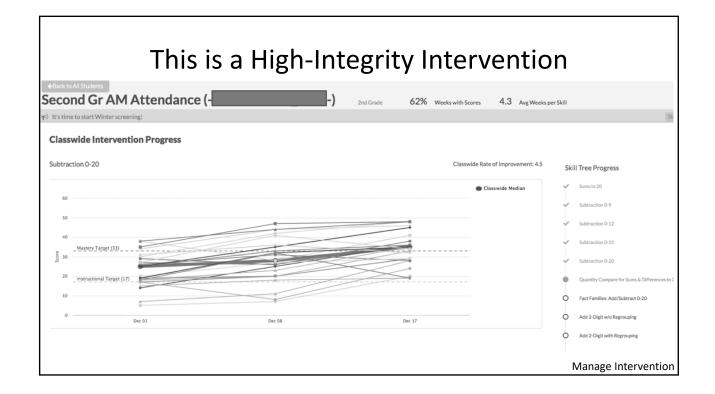
Signs of an Effective Intervention

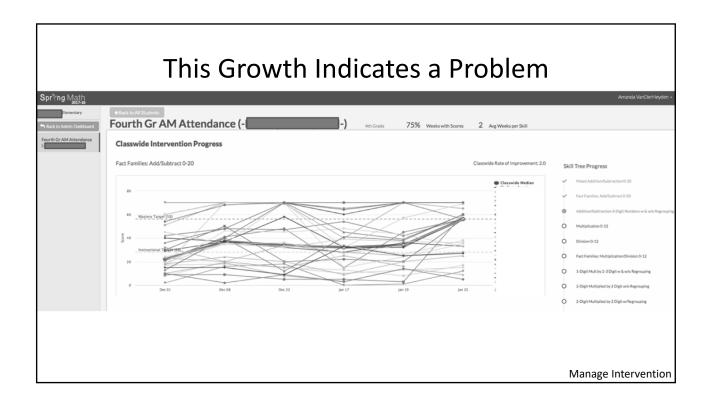
- Scores available for each week.
- Median increases each week within instructional groupings.
- Most students grow week over week.
- Very few students remain in the frustrational range.
- Few students require more intensive intervention.

Activity: NCII DBI Implementation Rubric

https://intensiveintervention.org/resource/dbi-implementation-rubric-and-interview

Manage Intervention





Most Typical Intervention "Fixes"

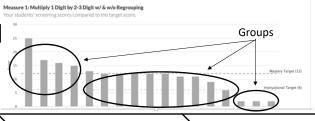
- ✓ Watch the intervention session.
- ✓ Pay attention to dosage.
- ✓ Tighten up rewards.
- ✓ Make sure error correction occurs with high quality everyday.
- ✓ If students are making errors, use pre-teach protocol in support.
- ✓ Integrate review of prerequisite skills and current skills into games and practice opportunities during the school day.
- ✓ Know that some skills take TIME!

Manage Intervention



Lesson 5: Align
Intervention
(Instruction) with
Student Needs
Using the
Instructional
Hierarchy/Stages of
Learning

Differentiation is Not Enough



Differentiated

Matching protocols with small group needs.

Personalized

Delivering assessmentdriven lesson content.

Individualized

Management of assessment-driven lesson content and tactical supports.

- Usually accomplished by organizing small groups
- Re-teach & enrich periods
- But, this is HARD to do.

"The results of the study indicate that the MAP program was implemented with moderate fidelity but that MAP teachers were not more likely than control group teachers to have applied differentiated instructional practices in their classes. Overall, the MAP program did not have a statistically significant impact on students' reading achievement in either grade 4 or grade 5." (Cordray et al., 2012)

Full report here: https://files.eric.ed.gov/fulltext/ED534 Proficioncy

How to Plan Instruction Using Science (We will talk about this in Workshop 2)

Acquisition

Child response is inaccurate: Frustrational Performance.

Goal of instruction is to build accurate understanding. Tactics should <u>include</u>: salient cues, frequent & highlevel prompting, immediate feedback, more elaborate feedback, sufficient exemplars of correct/incorrect responses, controlled task presentation.

luency

Child response is accurate but slow: Instructional Performance

Goal of instruction is to build fluency (accuracy + speed). Tactics should include: intervals of practice, opportunities to respond, delayed feedback, goals & reinforcement for more fluent performance.

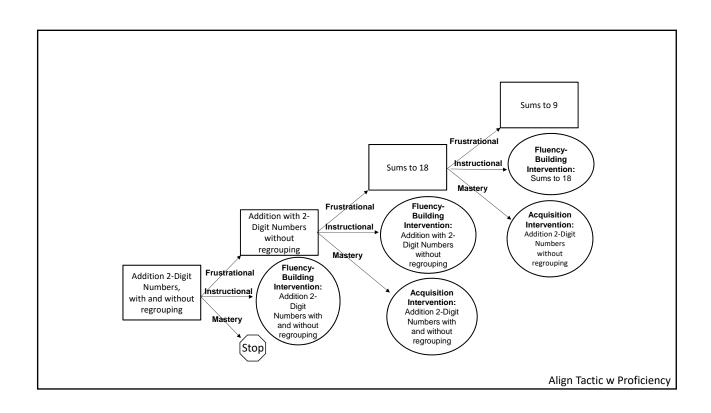
Generalization & Adaptation

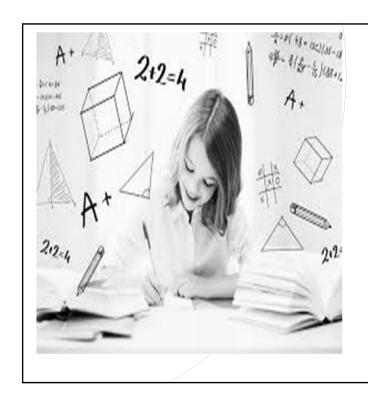
Child response is fluent: Mastery Performance

Goal is to promote generalization. Tactics should include: cues to generalize, corrective feedback for application and problemsolving, systematic task variation, fading of support.

Haring, N. G., & Eaton, M. D. (1978). Systematic instructional procedures: An instructional hierarchy. In N. G. Haring, T. C. Lovitt, M. D. Eaton, & C. L. Hansen (Eds.), *The fourth R: Research in the classroom* (pp. 23–40). Columbus, OH: Merrill.

Align Tactic w Proficiency





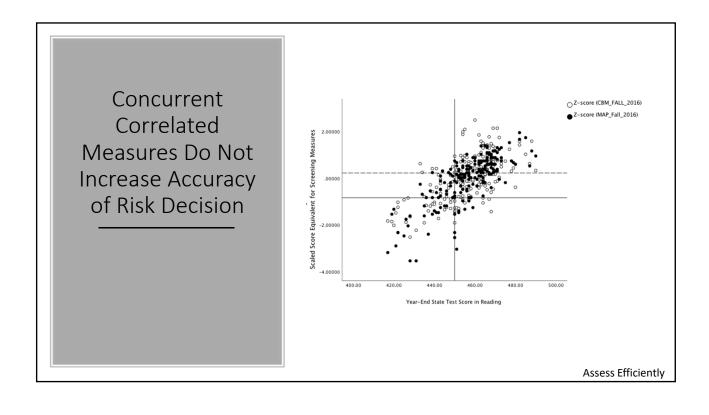
Lesson 6: Assess More Efficiently

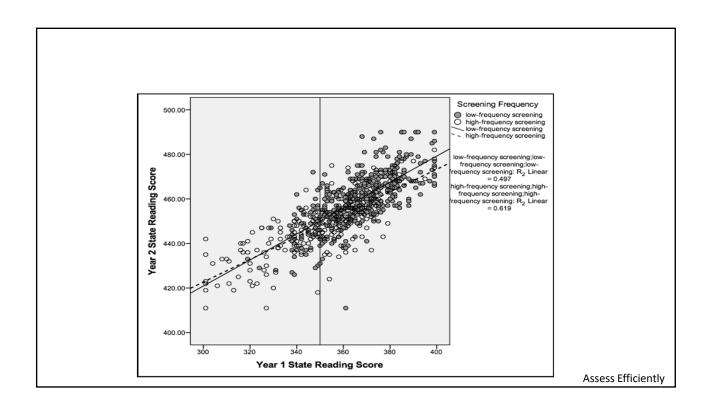


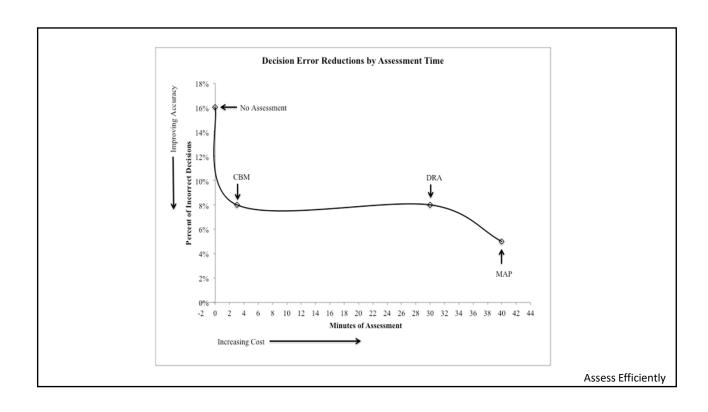
More Assessment Does Not Make You More Accurate.

It Has Been Associated with Decreased Performance for All but the Most At-Risk Students.

Assess Efficiently









Lesson 7: Lead more efficiently/effectively (Learner Objective 3)

Your Role as an Adaptive Leader: Technical Leaders v. Adaptive Leaders

- Technical leaders are good managers. They are:
 - Engaged
 - Quick to recognize and respond to issues that arise
 - Organize groups to solve problems
 - · Regularly produce desired results

Technical Leadership

Zone of Less

Complexity; Tactics

are clear

Adaptive Leadership

Zone of Greater

Complexity where tactics
are not known & agreed
upon

http://nirn.fpg.unc.edu/learn-implementation/implementation-drivers

Lead More Effectively

Change Requires Adaptive Leaders

"When systems undergo change, the natural tendency of those in the system is to look to those in authority to minimize the tension of change and regain stability. However, when change is the goal, formal authority can get in the way of leadership because it is designed to maintain systems, not to help people overcome their natural tendencies to maintain the status quo. When organizations and systems are being changed on purpose, adaptive leadership is needed to manage the change process."

(National Implementation Research Network).

Lead More Effectively

