Tiered Interventions and RTI in High Schools: Preliminary "Lessons Learned"

Lou Danielson, National High School Center & National Center on Response to Intervention Christy Murray, Center on Instruction

Midwest High School SIG Conference May 19, 2011







Disclaimer

The National High School Center and the National Center on Response to Intervention are operated by American Institutes for Research. The Center on Instruction is operated by RMC Research Corporation in partnership with the Florida Center for Reading Research at Florida State University; Instructional Research Group; the Texas Institute for Measurement, Evaluation, and Statistics at the University of Houston; and The Meadows Center for Preventing Educational Risk at The University of Texas at Austin.

The contents of this presentation and related document were developed under cooperative agreements S283B050028, H326E070004, and S283B050034 with the U.S. Department of Education. However, the content does not necessarily represent positions or policies of the Department of Education, and you should not assume endorsement by the Federal Government.

While You Are Getting Settled...

Complete the survey at your table:

- What contextual factors pose the biggest challenge to you and your staff/colleagues as you implement (or think about implementing) RTI/tiered intervention in your school?
- Indicate your top 3 choices; these will be presented
- All others will be discussed amongst participants at your tables during discussion time

Getting to Know You

- What are your roles?
- Currently using (or planning to use) RTI/tiered interventions in your school?
- Thinking about using RTI/tiered interventions in your school?

Session Overview

- About the High School Tiered Interventions Initiative (HSTII)
- Essential components of RTI and high school examples
- Contextual factors unique to tiered interventions in high schools
- Overview of available resources

High School Tiered Interventions Initiative

- Collaboration among three national technical assistance centers
 - National Center on Response to Intervention
 - National High School Center
 - Center on Instruction (Special Education Strand)
- Goal is to enhance the understanding of how tiered intervention models are emerging in high schools

HSTII Approach

- Identified high schools implementing tiered interventions based on recommendations from RCCs, RRCs & SEAs
- Contacted 51 high schools
- Interviewed 20 high school administrators
- Convened Technical Advisory Group
- Conducted 8 site visits

What is Response to Intervention?

Response to Intervention:

- integrates assessment and intervention within a multi-level prevention system to
- maximize student achievement and to
- reduce behavior problems.

Conceptualizing the Framework

Tertiary Prevention (e.g. Tier III):

Secondary Prevention (e.g. Tier II):

Evidence-based intervention(s) of moderate intensity that addresses the learning or behavior challenges of most at-risk students

Primary Prevention (e.g. Tier I):

High quality core instruction that meets the needs of most students

Individualized intervention(s) of increased intensity for students who show minimal response to secondary prevention

~80% of Students

~5%

~15%

NCRTI, March 2010

© 2011 NHSC, NCRTI, and COI

Principles Key to RTI Implementation

The HSTII team considers the following principles to be key to RTI implementation in any academic or behavioral domain and at any grade level:

- 1. The majority of students' educational needs are met through **research-driven instructional (academic and/or behavioral) practices** within core, or Tier I, instruction (Primary Level).
- 2. Students are **screened** to identify those in need of more intensive instruction, provided in the form of interventions.
- **3. Progress monitoring** yields data to assess students' learning and academic performance and to determine whether a specific intervention is effective for a particular student.
- **4. Interventions increase in intensity** in proportion to students' instructional needs, and interventions are monitored to ensure that they are delivered with high levels of fidelity.
- **5. Using data** from screening and progress-monitoring measures, schools can assess both the students' responses and the interventions' effectiveness. These data may also be used in the special education eligibility process.

Essential Components of RTI

- Screening
- Progress Monitoring
- School-wide, Multi-level Prevention System
 - Primary Prevention (Core instruction for all)
 - Secondary Prevention (Interventions of moderate intensity for some)
 - Tertiary Prevention (Intense interventions for a few)
- Data-Based Decision Making for:
 - Instruction
 - Movement within the multi-level system
 - Disability identification (in accordance with state law)

(NCRTI, March 2010)

Caveats

- The majority of research on RTI exists at the elementary school level; a few middle school studies.
- Essential components of RTI may be the same at both levels.
- Translation of the framework and essential components into effective practice in high schools may differ from elementary school due to structural, organizational differences.



WHAT MIGHT RTI LOOK LIKE IN HIGH SCHOOL SETTINGS?

Establishing a Focus

- All sites identified improving student achievement as primary goal
 - 9th and 10th graders, English and/or mathematics
- Various goals:
 - Reducing D's and F's
 - Existing initiative for reducing number of tardies
 - Reducing behavior referrals
 - Increasing graduation rate

Focus: Guiding Questions

- What is the purpose and scope of tiered interventions in the school?
- How do existing initiatives fit into the tiered interventions framework?
- How do current special education and instructional support practices align with tiered interventions?
- Do other initiatives hinder the implementation of tiered interventions?
- If the school is structured using academies, how do the academies affect the focus of the tiered interventions framework?

What is Your "WHY?"

- What is the primary need or area of concern in your school? District?
 - Academics? Behavior? Both?
 - Literacy? Math? Other content areas?
 - Attendance?
 - Particular grade levels?
 - Other?
- Purpose statement: "RTI/tiered interventions will help my school/district to...."



Screening

	Typical Implementation (Elementary)	Possible High School Implementation
Purpose Focus	/ Identify students who are at risk of poor learning outcomes	Identify students who are at risk of dropping out or not graduating
Who	All students	Could be a specific group of students in hit highest earlies based on
Tools	Brief assessments that are valid, reliable, and demonstrate diagnostic accuracy for <i>predicting</i> learning or behavioral problems	Ideally valid & reliable measures based on school's Cook Ser Rearing warning system toor; existing data (from 8 th grade; grades/multiple failures; attendance and Gook Ser cking logs); additional tests administered at beginning of 9 th grade
Timefrai	ne Administered three times per year (e.g., Fall, Winter, Spring)	Varies based on school's RTI focus and screening tools

Examples of High School Screening

Area of Focus	Measure	Frequency
Reading	Maze CBM	Conducted at the end of the 8 th grade year for students attending feeder middle schools; administered by the guidance department for new students within 6 weeks
Grades	Failure of one or more content area classes	Review conducted by guidance department 3 times a year
Exit exams	Failure to pass a state exit exam on its first administration	Review conducted by guidance department at the end of each school year
Behavior	Number of Office Discipline Referrals	Review conducted by guidance department in December and May

Progress Monitoring

	Typical Implementation (Elementary)	Possible High School Implementation
Purpose/ Focus	Monitor student's response to primary, secondary, or tertiary instruction in order to estimate rates of improvement, identify students who are not demonstrating adequate progress, and compare the efficacy of different forms of instruction and intervention	Monitor student's response to primary, secondary, or tertiary instruction in order to estimate rates of improvement, identify students who are not demonstrating adequate progress, and compare the efficacy of different forms of instruction and intervention Varies Dased On
Who	Students identified through screening as at risk for poor learning outcomes (those receiving secondary or tertiary)	Students identified through screening as at risk for SChroo Svi Rutchmes
Tools	Brief assessments that are valid, reliable, sensitive to small changes, and measure what is being taught	Ideally valid and reliable tools, based on school's RTI focts Dave sees diagnostic measures; CBMs; class quizzes and tests; practice or benchmark graduation tests; attendance and behavior tracking
Timeframe	Students are assessed at regular intervals	Varies based on school's RTI focus and assessment & instructional tools

Examples of Progress Monitoring in High Schools

Level of Instruction	Measure	Frequency
Primary	 Ongoing formative assessment Common math assessment Common writing prompts Grades Attendance 	Daily Monthly Semester/quarter 1st 20 days of school, quarterly
Secondary	 Teacher-developed Algebra CBM Maze passage D/F reports Time-sampling for behavior 	Every other week Weekly
Tertiary	Measures embedded in intervention programBehavior tracking sheets	Daily

Primary Prevention

ALL students receive explicit, research-based instruction



~15%

Primary Prevention (e.g. Tier I):

High quality core instruction that meets the needs of most students (NCRTI, March 2010)

What we observed:

- Explicit, research-based instruction
- Standards-aligned instruction
- Scaffolding
- Differentiated instruction
- Academic literacy
- Formative assessment
- Clear behavior expectations taught school-wide

~80% of Students

© 2011 NHSC, NCRTI, and COI

Secondary & Tertiary Prevention

Tertiary Prevention (e.g. Tier III):

Secondary Prevention (e.g. Tier II):

Evidence-based intervention(s) of moderate intensity that addresses the learning or behavior challenges of most at-risk students (NCRTI, March 2010)

- Provided in addition to primary prevention (core)
- Teacher-led, small group instruction
- Ongoing progress monitoring and appropriate diagnostic assessment as needed

Individualized intervention(s) of increased intensity for students who show minimal response to secondary prevention (NCRTI, March 2010)

- Provided in addition to primary prevention (core)
- Very small group (1:3) or 1:1 instruction
- Ongoing progress monitoring and appropriate diagnostic assessment as needed (more frequent)
- More intense instruction (increased time, reduced group size, more explicit & systematic instruction, increased feedback)

~15%

~5%

~80% of Students

© 2011 NHSC, NCRTI, and COI

High School Example: Secondary Prevention

	English/Language Arts	Algebra	Behavior
Time in Intervention	55 minute periods, 5 days a week, 1 semester	55 minute periods, 5 days a week, 1 semester	40 minute period, 1 day a week during advisory, 1 semester
Instructional Content	Vocabulary; comprehension strategy instruction; fundamentals of writing (organization); study skills	Preteaching and reteaching concepts from core curriculum	Ex., Check and Connect
Instructional Delivery	Large group with small group/pairs work; explicit & systematic; frequent feedback; scaffolding; differentiated	Small groups within large group instruction; explicit & systematic; frequent feedback and PM to ensure mastery of each math objective	Creation of positive learning environment; posting of behavioral expectations and explicit teaching of strategies
Assessment	Ongoing formative assessment; journal checks (writing samples); CBM (maze passages)	Teacher-developed CBM organized around state standards	Monitoring of office discipline referrals and grades for particular students

High School Example: Tertiary Prevention

	Reading	Behavior
Student Need	Many grade levels behind; struggling with decoding and reading of connected text	Consistent poor behavior that interferes significantly with student learning
Instructional Content	Phonics, fluency, comprehension via a published intervention program	Social skills intervention
Instructional Delivery	Small, teacher-led groups within large class; special education teachers and teacher aids; explicit, systematic, fast-paced	Delivered in a full class period by behavior specialist
Assessment	Program-based assessment; diagnostic testing done twice per semester	Functional Behavior Assessment

Data-Based Decision Making: Types of Decisions

- Use of screening and progress monitoring data to make informed decisions regarding:
 - Instruction
 - Movement within the multi-level prevention system
 - Disability identification (in accordance with state law)



Examples of Data-Based Decision Making in High Schools

Instruction/Movement between tiers:

- Ongoing PM leads to intervention teachers modifying instruction to target student needs ("bump" up or down)
- Data reviewed during department and professional learning community monthly meetings to inform PD needs
- Data shared with entire faculty during "data days" (1/2 days of PD held 3 times a year)
- Students receiving secondary and/or tertiary instruction given the opportunity every other week to view their progress monitoring data, set goals, etc.

Disability identification:

In most cases, not applicable to high schools

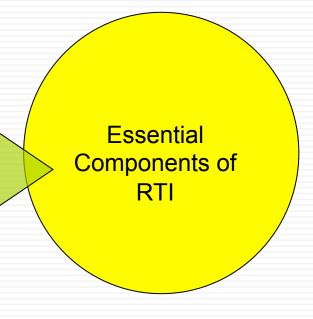
Table Discussions

From your perspective, what do you see as the potential benefits to implementing RTI, or tiered interventions, in high school?

Potential barriers/pitfalls/challenges?

Contextual Factors Unique to RTI in High Schools

- Focus
- Culture
- Instructional Organization
- Staff Roles
- Student Involvement
- Graduation quirements
- Stakeholder Engagement
- Implementation and Alignment
- Instruction and Assessment Resources



School Culture: Guiding Questions

- In what ways do current practices, beliefs, and behaviors align with the goals and purposes for the tiered intervention framework?
- Where did the motivation for adopting the framework originate, and how might that affect staff buy-in?
- How do current prevention efforts map onto a tiered framework?
- What changes might be required for staff members to collaborate, examine student data, and act on what they learn from those data?
- What changes might be required to ensure that the needs of all students are addressed?

School Culture: Examples from Site Visits

- Synergy between current beliefs and RTI language
- Small learning communities to facilitate connections among students and between students and teachers

Instructional Organization: Guiding Questions

- How does the staff create and/or adapt a master schedule that addresses the needs of the school?
- How do single class periods, block scheduling, or a combination of the two best support the focus and delivery of tiered interventions?
- Does the current infrastructure present obstacles?
- Does the school provide additional instructional interventions through extended days, Saturdays, and summer programs?
- How does the school support teachers in designating time to collaboratively make data-based decisions?

Instructional Organization: Examples from Site Visits

- Master Schedule
 - Administrator as a "master scheduler"
 - -4x4 block schedules use "seminar"
 - -Traditional 6-8 periods
 - Guided study halls
 - Elective time
 - Professional learning communities for staff

Staff Roles: Guiding Questions

- Who provides the additional interventions? How does the school support this role?
- How do special education, ELL, and/or behavioral specialists support the implementation of tiered interventions?
- If tiered interventions are implemented in more than one content area, how does the school support content teachers in becoming more than "teachers of content?"
- What supports, if any, do teachers need to deliver Tier of the control of the c

Staff Roles: Examples from Site Visits

- Intervention/Classroom Instruction
 - Co-teaching Classes
- Data Team Members
 - Content Teachers
 - Special Education Teachers
 - Administrators
 - Paraprofessionals
 - Literacy Coach
 - School Psychologist
 - Integrated Program Staff



Student Involvement: Guiding Questions

- How are students involved in the implementation of tiered interventions?
- How do students monitor their own progress?
- What role do students play in determining movement between tiers?
- How do students learn about the tiered interventions framework?

Student Involvement: Examples from Site Visits

- Student-Centered Problem
 Solving Approach
 - Collaborative decision making process
- Student Data Tracking
 - Graphic representations



Graduation Requirements: Guiding Questions

- How do the additional tiered interventions affect graduation requirements?
- What credit do students receive for the intervention classes?
- How does the tiered interventions framework support career and postsecondary education pathways?

Graduation Requirements: Examples from Site Visits

- Dependent on schedule modifications
 - Additional interventions in lieu of study hall did not receive credit
 - Additional interventions in lieu of electives received elective credit

Stakeholder Engagement: Guiding Questions

- How does the school involve stakeholders in the design and implementation of tiered interventions?
- How does the school engage the appropriate stakeholders early enough to ensure buy-in for the tiered interventions framework?
- Do in-school and wraparound services for at-risk students and students with disabilities align and coordinate with one another?
- What types of training and support are needed to effectively engage and prepare stakeholders?

Stakeholder Engagement: Examples from Site Visits

- Stakeholder Involvement
 - Parents invited to problem-solving meetings
 - Build upon existing initiatives
- Training and Support
 - Overall RTI framework PD
 - PD on individual interventions
 - -Small learning communities

Implementation and Alignment: Guiding Questions

- What current or planned instructional and student support initiatives does the school integrate to support the focus of tiered interventions?
- How do those efforts align with the tiered interventions, especially in Tiers II and III?
- What options exist for scaling up tiered interventions over time to broaden the number of students, content areas, and/or interventions?
- How does the school leverage existing human and fiscal resources to facilitate the implementation and scaling up of tiered interventions?
- How are district departments (C&I, Title I, etc.) involved in school-level implementation of tiered interventions?

Implementation & Alignment: Examples from Site Visits

- Coordinated Initiatives
 - Positive Behavior Interventions and Supports (PBIS)
 - Advancement Via Individual Determination (AVID)
 - Check and Connect
 - Other school-wide programs
- Leveraged Resources
 - Staff roles (literacy coach, school psychologist, security staff, counselors, etc.)
 - Prioritizing (existing PD, time, staff meetings, classroom space, etc.)

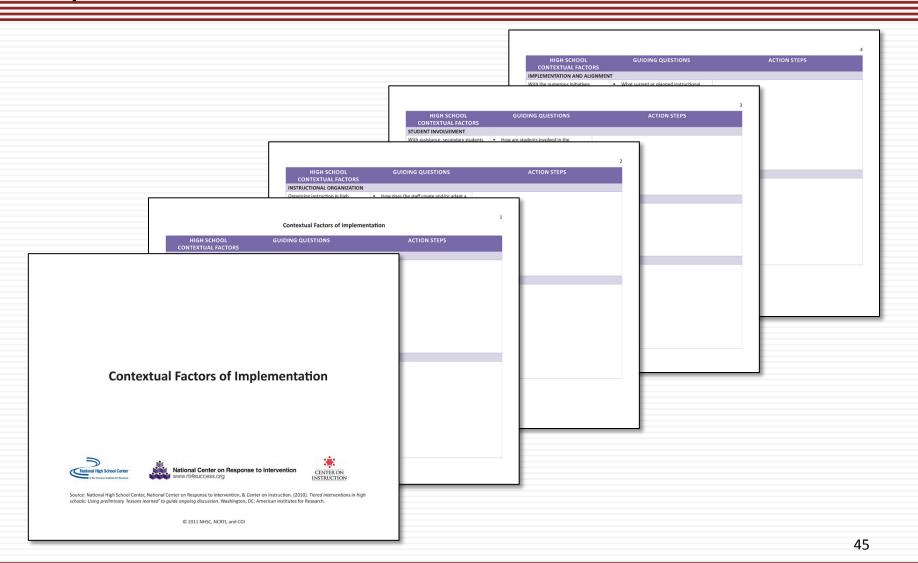
Instruction and Assessment Resources: Guiding Questions

- How do school leaders and teachers determine the quality of instruction delivered in Tier I?
- How do school leaders select interventions?
- What data support the use of these interventions?
- What evidence informs the selection of data sources for screening and progress monitoring?
- How does the school determine whether selected measures are reliable and valid?
- How is educational technology used in assessment of interventions?

Instruction and Assessment Resources: Examples from Site Visits

- Professional/Teacher Learning Communities
 - Weekly
 - Focused on student data
- Determining Interventions & Data Sources
 - Data from previous school
 - Avoidance of duplicating feeder intervention programs

Handout on the Contextual Factors of Implementation



Final Thoughts



What are **one or two ideas** you've heard about here today that you feel your school/district might want to try out?

Additional Resources



TIERED INTERVENTIONS IN HIGH SCHOOLS

USING PRELIMINARY 'LESSONS LEARNED' TO GUIDE ONGOING DISCUSSION

May 2010











Meeting the Needs of Significantly Struggling Learners in High Schools:

A Look at Approaches to Tiered Intervention

By Hites Duty Assesses Institute to Research?

THE CHALLENGE

When high actual students are significantly tagging behind their peers, actuals have two others guided chars students into special education services, seen if they do not actually have a distribity (Countriers & Creedy, 2014). Adopting more taggeted, traffrectional strategies earlier within the general education setting would, in return cases, be come appropriate and effective in meeting the needs of many strateging learners.

Abbrough some elementary arthoric are reorganizing to better implement deserinserventions to provide more tragged and appropriate scalents, total and behavioral supports to that soughting indeetings the appropriate level of unintance they need to succeed. New high without have systematically implemented fased interventions. Schools other organize interventions that levels that represent an increase to support. These levels include universal interventions resiliate to all students, such as more discussors instruction on a posticular subject togeted interventions, wherein students are provided more support than pero, such as touching, and interalive inserventions that involve more instructional arrivous alloced to the unique mercent of the influence.

Effective thesell intervention receiving depend on sociate diagnostic information and data about with to at a not working for matters and when one adjusments need to be made, but in whether to move a marked third or out of a more intensive level of appoint. One increasingly popular approach to gathering and adjusting to key diagnostic information to Regulate to Intervention (RTI), which may affile purgous monitoring as one of the components.

When identifying numbers with learning simbilities (LD), the fundamental pushfilter Education Improvement Act, 2014 (IDEA 2004) afters wherefore to use a present, such as ITI, that is brased to a child's separate to clearly, seezach hased intersection. IDEA 2004 afters education to use an approach such as RTI leased of, or in addition to, the IQ active execut decorpancy approach. To date, much attention has been focused on the posmile RTI tricks as an alternative method to identify suders with ID in the early guide.

For More Information

- National High School Center www.betterhighschools.org
- National Center on RTI <u>www.rti4success.org</u>
- Center on Instruction
 www.centeroninstruction.org
- Center on Positive Behavior Interventions and Support http://www.pbis.org/

References

- Batsche, G., Elliott, J., Graden, J. L., Grimes, J., Kovaleski, J. F., Prasse, D., et al. (2006). *Response to intervention: Policy considerations and implementation*. Alexandria, VA: National Association of State Directors of Special Education.
- Caplan, G. (1964). Principles of prevention psychology. New York, NY: Basic Books.
- Christenson, S. L., Reschly, A. L., Appleton, J. J., Berman-Young, S., Spanjers, D. M., & Varno, P. (2008). Best practices in fostering student engagement. In A. Thomas & J. Grimes (Eds.), *Best practices in school psychology* (5th ed., pp. 1099–1119). Bethesda, MD: National Association of School Psychologists.
- Duffy, H. (2007). *Meeting the needs of significantly struggling learners in high school: A look at approaches to tiered interventions.* Washington, DC: American Institutes for Research, National High School Center.
- Fuchs, L. S., & Fuchs, D. (1986). Effects of systematic formative evaluation: A meta-analysis. *Exceptional Children*, 53(3), 199–208.
- Fuchs, L. S., & Fuchs, D. (2002). Curriculum-based measurement: Describing competence, enhancing outcomes, evaluating treatment effects, and identifying treatment nonresponders. *Peabody Journal of Education*, 77, 64–84.
- Horner, R. (2009, March). *Overview of positive behavior support and the contribution of wraparound.*Presentation in San Jose, CA. Retrieved February 11, 2010, from http://www.pbis.org/common/pbisresources/presentations/0309rhoverviewpbisCA.ppt
- Jimerson, S. R., Reschly, A. L., & Hess, R. (2008). Best practices in increasing the likelihood of high school completion. In A. Thomas & J. Grimes (Eds.), *Best practices in school psychology* (5th ed., pp. 1085–1097). Bethesda, MD: National Association of School Psychologists.
- Kurz, A., Elliot, S. N., Wehby, J. N., & Smithson, J. L. (2009). Alignment of the intended, planned, and enacted curriculum in general and special education and its relation to student achievement. *The Journal of Special Education*, 43(3), 1–15.

References (cont.)

- National Association of State Boards of Education. (2006). *Reading at risk: The state response to the crisis in adolescent literacy.* Alexandria, VA: Author.
- National Center on Response to Intervention (March 2010). *Essential Components of RTI--A Closer Look at Response to Intervention*. Washington, DC: U.S. Department of Education, Office of Special Education Programs, National Center on Response to Intervention.
- National High School Center. (2008). *Eight elements of high school improvement: A mapping framework.*Washington, DC: American Institutes for Research, National High School Center. Retrieved August 11, 2009, from http://www.betterhighschools.com/ docs/NHSCEightElements7-25-08.pdf
- Reschly, D. J., & Wood-Garnett, S. (2009). *Teacher preparation for response to intervention in middle and high schools*. Washington, DC: Learning Point Associates, National Comprehensive Center on Teacher Quality.
- Shapiro, E. S., & Ager, C. (1992). Assessment of special education students in regular education programs: Linking assessment to instruction. *The Elementary School Journal*, *92*(3), 283–296.
- Thurber, R. S., Shinn, M. R., & Smolkowski, K. (2002). What is measured in mathematics tests? Construct validity of curriculum-based mathematics measures. *School Psychology Review*, 31(4), 498–514.
- VanDerHeyden, A. M., & Burns, M. K. (2005). Using curriculum-based assessment and curriculum-based measurement to guide elementary mathematics instruction: Effects on individual and group accountability scores. Assessment for Effective Intervention, 30(3), 15–31.
- Vaughn, S., Wanzek, J., & Fletcher, J. M. (2007). Multiple tiers of intervention: A framework for prevention and identification of students with reading/learning disabilities. In B. M. Taylor & J. Ysseldyke (Eds.), *Educational interventions for struggling readers* (pp. 173–196). New York, NY: Teacher's College Press.