



Agenda	
Time	Activity
8:30–8:45 a.m.	Check In, Welcome, & Introductions
8:45–10:00 a.m.	Overview of the MTSS Framework and Essential Components
10:00–10:15 a.m.	Break Time
10:15–11:45 a.m.	High-Quality Tier 1 Instruction and Assessment
11:45 a.m.–12:00 p.m.	Overview of Progress Monitoring
12:00–1:15 pm	<i>Working Lunch</i> – Reflection: What Are You Doing That Fits Within This Framework?
1:15–2:30 p.m.	Instruction and Intervention Across Tiers 2 and 3 and Intensive Intervention
2:30–2:45 p.m.	Addressing Common Barriers
2:45–3:00 p.m.	Wrap Up and Evaluation







### What MTSS is...and What it is Not

What MTSS Is	What MTSS Is Not
A <b>prevention</b> framework for school improvement made up of core components and features	A program or curriculum
For <b>all</b> students, including those students in need of enrichment	Just for struggling students or students with disabilities
Flexible for schools and districts to customize to meet their unique circumstances	A one-size-fits-all prescriptive model
Collaborative and incorporates a team-based approach of representative stakeholders	The responsibility of one teacher or one specialist
Data driven, using multiple valid and reliable data sources	Based on assumptions or unreliable data
A framework that can be used to assist with special education decisions	Pre-referral process for special education















Universal	Screening
PURPOSE	Identify students who are at risk of poor learning outcomes
FOCUS	ALL students
TOOLS	Brief assessments that are valid and reliable and that demonstrate diagnostic accuracy for predicting learning or behavioral problems
TIME FRAME	Administered more than one time per year (e.g., fall, winter, spring )
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Reset	Compare	Prev Nex	t 🔪	Classification	Accuracy	Tachnical Standa	de	
	Title	Area	Grade	Admin Format	Admin & Scoring Time	Scoring Format	Types of Decision Rules	Evidence Available for Multiple Decision Rules
	Children's Educational Services, Inc. (CES)	Standard Reading Passages	1	Individual	15 minutes	Manual	None	No
	Children's Educational Services, Inc. (CES)	<u>Standard</u> <u>Reading</u> Passages	2	Individual	15 minutes	Manual	None	No
	Children's Educational Services, Inc. (CES)	<u>Standard</u> <u>Reading</u> Passages	3	Individual	15 minutes	<u>Manual</u>	None	No
	Children's Educational Services, Inc. (CES)	Standard Reading Passages	4	Individual	15 minutes	Manual	None	No
	Children's Educational Services, Inc. (CES)	<u>Standard</u> <u>Reading</u> Passages	5	Individual	15 minutes	Manual	None	No
	Children's Educational Services, Inc. (CES)	<u>Standard</u> Reading Passages	6	Individual	15 minutes	Manual	None	No







Reset Chart	Compare Tools	C Prev New Tab	t >	Classification	Accuracy	Technical Standa	rds Usa	bility Features
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	<u>Children's</u> <u>Educational</u> <u>Services, Inc.</u> ( <u>CES)</u>	Standard Reading Passages	1	Individual	15 minutes	Manual	None	No
	<u>Children's</u> <u>Educational</u> <u>Services, Inc.</u> ( <u>CES)</u>	Standard Reading Passages	2	Individual	15 minutes	Manual	None	No
	<u>Children's</u> <u>Educational</u> <u>Services, Inc.</u> ( <u>CES)</u>	Standard Reading Passages	3	Individual	15 minutes	Manual	None	No
	<u>Children's</u> <u>Educational</u> <u>Services, Inc.</u> ( <u>CES)</u>	Standard Reading Passages	4	Individual	15 minutes	Manual	None	No
	Children's Educational Services, Inc. (CES)	Standard Reading Passages	5	Individual	15 minutes	Manual	None	No
	Children's Educational Services, Inc. (CES)	Standard Reading Passages	<u>6</u>	Individual	15 minutes	Manual	None	No









- · General school- and grade-level trends or issues
- Effectiveness of school-wide curriculum and instructional delivery
- Areas of need and guidance on how to set measurable school-wide goals

### Grade-Level Educational Decisions: Screening

- Specific grade-level trends or issues
- Effectiveness of grade-level curriculum and instruction
- Areas of need and guidance on how to set measurable grade-level goals
- Students who may need additional instruction or assessment

Establishing Routines & Procedures for Data-Based Decision-Making

Teams should establish the following:

- Routines and procedures for conducting data reviews
- Decision-making processes
- Explicit decision rules for assessing student progress

### **Conducting Data Reviews**

- Conduct data reviews at logical, predetermined intervals.
- Schedule data reviews prior to the beginning of instruction.
- Use established meeting structures.
- Involve relevant team members.



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### What would you do if:

- More than 80% of students are above cut score?
- Less than 80% have reached the cut score:
  - Would you strengthen the core instruction and curriculum?
     Would you add an intervention?
- Student screening data varies by target group (e.g., Title I, special education, low SES)?



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SOUTHEAST

Comprehensive Center

at American Institutes for Research

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AIR



	Tier 1	Tier 2	Tier 3
Instruction or Intervention Approach	Comprehensive, research-based curriculum	Standardized, targeted small-group instruction	Individualized, base on student data
Group Size	Classwide (with some small-group instruction)	3-7 students	No more than 3 students
Assessment	Screening, 3 times per year	At least biweekly or monthly	Weekly
Population Served	All students	Students identified as at risk (~15%-20%)	Significant and persistent learning needs, nonrespond (3%–5%)





Focus	Instruction	Setting	Assessmen
All students (including students with disabilities and learning differences)	District core curriculum and instructional practices that are research-based and aligned with state or district standards, and that incorporate <i>differentiated</i> <i>instruction</i>	General education classroom	Screening, continuous progress monitoring, and outcome measures or summative assessments



















### The core curriculum (reading and mathematics)

- Aligned with the College and Career Standards or other state standards.
- Usually mandatory for all students of a school or a school system
- Often instituted at the elementary and secondary school levels by local school boards, departments of education, or other administrative agencies charged with overseeing education



- Schools provide enrichment opportunities for students exceeding benchmarks.
- Educators implement those opportunities consistently in all classes and grade levels.

















### HLP #16: Explicit Instruction

- Showing and telling students what to do or think while solving problems, enacting strategies, completing tasks, and classifying concepts
- Strategic use of examples and non-examples
- Modeling and scaffolding steps and processes



### **Explicit Instruction**

- Nothing is left to chance; all skills are taught directly.
- Student practice activities are carefully guided with instructive error correction.
- Practice activities are carefully engineered to produce mastery.
- Critical skills are developed through carefully monitored instruction, and the focus is on mastery.

# HLP #16: Explicit Instruction

After watching this video example, what features of explicit instruction did you see?

https://highleveragepractices.org/701-2/



# Systematic Instruction

- Lessons and activities are divided into sequential, manageable steps.
- Concepts and tasks progress from simple to more complex
- Concepts and skills are explicitly defined, and order of introduction follows a preplanned sequence.

### The Role of Practice

- Provide lots of opportunities for practice.
- Students need extended practice over time.
- Remember, what is practiced becomes a habit.



Feedback is critical! Don't allow students to practice their mistakes!







Purpose	Monitor students' response to Tier 1, Tier 2, or Tier 3 instruction to estimate rates of improvement, identify students who are not demonstrating adequate progress, and compare the efficacy of different forms of instruction.
Focus	Students identified through screening as at risk of not meeting learning outcomes.
Tools	Brief assessments that are valid, reliable, and evidence-based
Time Frame	Students are assessed at regular intervals (e.g., weekly, biweekly, or monthly)










# <section-header>Evidence-Based Tier 2 Intervention

#### Tier 2 Within MTSS

	Tier 1	Tier 2	Tier 3
Instruction or Intervention Approach	Comprehensive, research-based curriculum	Standardized, targeted small-group instruction	Individualized, based on student data
Group Size	Classwide (with some small-group instruction)	3–7 students	No more than 3 students
Assessment	Screening, 3 times yearly	At least biweekly or monthly	Weekly
Population Served	All students	Students identified as at risk (~15%–20%)	Significant and persistent learning needs, non- responders (3%–5%)



Disclaimer

There is not a single evidence-based practice or intervention that works for every student.

























## Data-Based Decision-Making Essential Component



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#### Data-Based Decision-Making Checklist

- Analyze data at all levels of MTSS:
  - Implementation (e.g., state, district, school, grade level)
  - Prevention (i.e., primary, secondary, or tertiary)
- Establish routines and procedures for making decisions.
- Set explicit decision rules.
- Use data to evaluate effectiveness of:
  - Core curriculum
  - Instructional and behavioral strategies







#### Thinking About Intervention Tiers

	Tier 1	Tier 2	Tier 3
Instruction/ Intervention Approach	Comprehensive research-based curriculum	Standardized, targeted small- group instruction	Individualized, based on student data
Group Size	Class-wide (with some small- group instruction)	3–7 students	No more than 3 students
Monitor Progress	Screening, 3x per year	At least 1x per month	Weekly
Population Served	All students	At-risk students	Significant and persistent leaming needs

#### Tier 3 Intensive Intervention

Focus	Instruction	Setting	Assessment
Students who have not responded to core- and supplemental intervention (Tier 2)	Intensive intervention (Tier 3) delivered to small groups (two or three students) or individually	Intervention classroom, other general education location within the school	Progress monitoring and diagnostic

#### What is Intensive Intervention?

**Intensive intervention** is designed to address severe and persistent learning or behavior difficulties. Intensive interventions should be:

- (a) Driven by data
- (b) Characterized by increased intensity (e.g., smaller group, expanded time) and individualization of academic instruction and/or behavioral supports

#### Tier 3 Intensive Intervention

- Includes evidence-based methods for individualizing instruction.
- Is more intense than Tier 2 (longer and more frequent).
- Requires implementation fidelity.
- Is delivered by well-trained or specialized staffin optimal group sizes.
- Includes decisions based on valid and reliable data and criteria implemented accurately.
- Addresses general education curriculum in an appropriate manner for students.

#### What Intensive Intervention ...

#### ls

- Individualized based on student needs
- More intense, often with substantively different content AND pedagogy
- Composed of more frequent and precise progress monitoring

#### Is Not

- A single approach
- A manual
- A pre-set program
- More of the same Tier 1 instruction
- More of the same Tier 2 instruction

#### Who Needs Tier 3 Intensive Intervention?

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





#### **Progress Monitoring**

- Are students meeting short-term goals that will help them reach their long-term goals?
- Are students making progress at acceptable rates?
- · Should instruction be adjusted or changed?

#### Approach to Tier 3 Intensive Intervention: Data-Based Individualization (DBI)

**Data-Based Individualization** (DBI) is a <u>systematic method</u> for using data to determine when and how to provide more intensive intervention.

- DBI is a process, not a single intervention program or strategy.
- Not a one-time fix—ongoing process comprising intervention and assessment adjusted over time.









## How should I use the additional time in intervention?



#### Use the additional time to accelerate learning by:

- Maximizing engaged learning time
- Minimizing waiting and transitions
- Teaching additional skills and strategies
- · Providing additional practice opportunities with feedback
- · Delivering more explicit, systematic (step-by-step) instruction
- Monitoring student progress to ensure that the additional learning time increases student mastery of skills.



#### Strategies for Adding Intervention Time

#### • Sample entry routine:

Student comes into the classroom, gets a timer, and does practice with math facts, writing down the scores on a recording sheet.

#### Sample exit routine:

Student finishes the lesson and does an oral reading fluency practice, either alone or with a partner.



Practice 2: Change the Learning Environment to Promote Attention and Engagement

- Reduce group size.
- Group students with similar needs.
- Change the instructional setting to reduce noise and other distractions and promote academic engagement.

### 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.





Considerations When Designing Intensive Intervention

Academic interventions also should support cognitive processes such as:

- Memory
- Self-regulation and self-monitoring
- Attribution
- Attention



Students with memory problems may have difficulty recalling:

- A sentence or description they just read
- Components of a multi-step math problem
- Steps in a sequence (e.g., math operations, independent work, organizational routines)
- Multi-step directions
- Previous learning that relates to new information
- Information presented in one modality (e.g., auditory only)

Source: Swanson, Zheng, & Jerman, 2009

## Indicators That a Student Struggles With Poor Memory

- Low scores for digit span or other measures of working memory on cognitive assessments.
- Frequently forgetting steps in a process or routine, or requiring more prompting than peers.
- Need for repeated presentation of new material in order to remember it.
- Not recalling information taught during the previous lesson/day/week (depending on context).
- Gets lost easily.

What practices help students reduce the impact of poor memory while engaged in academic learning?

## Teach Strategies for Taking Notes and Organizing Information



Teach students to write down assignments and include in daily routines.



Use graphic organizers and key words and phrases for notes.



Teach students to ask for help if they need information repeated.



#### Teach Routines for Important Procedures

1. Get your coat and backpack.	
2. Pick up your sack lunch in the hall bin.	
3. Check your mailbox.	
4. Put papers in your accordion folder.	6

- Use consistent routines.
- Provide a cue sheet/poster for multistep processes.
- Review steps regularly reteach as needed.

## Review Prior Learning Before Presenting New Information

#### Have students:

- Retell information from the previous lesson.
- Summarize key points using just a few words or phrases.
- Predict or explain how the new information may relate to prior learning.

#### **Other Strategies**

- Model out loud verbal rehearsal of what students need to remember.
- Develop a mnemonic device.
- Use visual or verbal cues as reminders.
- Check for understanding frequently.





- 1. Consideration of the instructional match and prioritization of skills to teach
- 2. Systematic Instruction
- 3. Explicit Instruction
- 4. Precise, simple, and replicable language
- 5. Frequent opportunities for student response
- 6. Specific feedback and error correction procedures
- 7. Opportunities for practice, development of fluency, and review



#### 2. Systematic Instruction

Break down complex skills into smaller, manageable "chunks" of learning and carefully consider how to best teach discrete pieces to achieve the overall learning goal.

- Prioritize and sequence learning chunks from easier to more difficult.
- Use scaffolding.
- Provide temporary supports to control the level of difficulty throughout the learning process.



#### 3. Explicit Instruction

- Overtly teach the steps or processes needed to understand a construct, apply a strategy, and/or complete a task.
- · It's often used for:
  - Teacher-led instruction of new skills
  - Teaching students to apply generalized knowledge or skills to novel settings
  - Addressing learning needs, including strategies to support cognitive processing



- 1. Tell students what you want them to know.
- 2. Provide an advance organizer.
- 3. Assess background knowledge.
- 4. Model ("I do").
- 5. Provide guided practice ("We do").
- 6. Provide independent practice ("You do").
- 7. Check for maintenance.

**Note:** Although there are no specific guidelines for this, the bulk of the instruction should fall within the guided practice phase.

## How can I make instruction more explicit and systematic?

- Organize instruction to allow for high levels of student success—start with easy tasks.
- Break tasks into smaller, simpler steps.
- Provide:
  - More modeling with clearer explanations
  - More concrete learning opportunities
  - Temporary support and gradually it reduce over time
  - More opportunities for response, practice, and feedback















#### Sample Error Correction Script

#### Student: 3 + 3 equals 5.

**Teacher:** That's not quite right, watch me. If I start with 3 fingers and count 3 more fingers (demonstrate), 4, 5, 6, I get 6 (show fingers). So, 3 + 3 equals 6 (pause). What does 3 + 3 equal?

#### Student: 6

**Teacher:** That's right, 3 + 3 = 6. Let's try another problem. (After a few more problems, go back to 3 + 3 and have the student provide the answer.)






"I don't have time for this. ... There are too many students."

- Choose intervention changes that are feasible to implement and maintain.
- Decide that intensive intervention is a priority for the 3–5% of students who need it. This requires buy-in from staff as well as school and district leadership.
- If significantly more students appear to need intensive intervention, consider parallel changes to core and secondary (Tier 2) instruction/intervention.
- Do not overburden your system by trying to serve significantly more than 3–5% of students at this level of intervention.

# "But we don't teach Program X to Yth graders."

- Instruction that does not align with students' needs is not likely to benefit them.
- Plan to make exceptions to scheduling and grouping policies for these students when data suggest they require it.
- Collect progress monitoring data, and review it regularly to determine if the student is benefiting from his or her intensified program.

#### "That's not my job."

- State and federal accountability measures require that **all** students make progress toward standards.
- Given the range of needs in general education classrooms, intensive intervention is unlikely to be successful if left to classroom teachers alone—they will need support.
- Identify interventionists (e.g., special education teachers, reading or math specialists) to support students throughout the building.
- Use flexible scheduling and staff allocation strategies to allow interventionists to serve a variety of students. Visit http://www.rti4success.org for resources.



- Revisit this presentation and the references listed.
- Make sure you monitor progress at an appropriate level.
- Collect additional diagnostic data to determine specific skill deficits.
- Consider integrating behavior or motivation strategies with academic instruction.
- Meet regularly with your team to identify and refine intervention strategies.



### Case Example: Sandy

Sandy is a sixth-grade student with an individual education program (IEP) for a specific learning disability.

Sandy struggles with mathematics and has recently begun struggling with fluency, performing on timed tests, and consistency on mastery assessments.

#### Intervention History: Sandy

- Sandy receives Corrective Mathematics in a small-group setting with three other students, five times a week, 50 minutes each session.
- On her current IEP, there are no behavioral goals.

#### Sandy's Current Performance

#### Initial data collection and analysis revealed the following:

- An error analysis revealed errors on mathematics concepts she had previously demonstrated mastery in, including long division skills.
- Teachers predict Sandy is struggling with the increased length and intensity of mathematics assessments in sixth grade.

## Sandy has started to demonstrate off-task behaviors and high levels of distractibility:

· In the late afternoon, final periods of the day, during unstructured time



The intervention team met and made the following decisions about Sandy's intervention:

- Decrease the number of students in intervention.
- Break lengthy mathematics assignments and assessments into smaller chunks to avoid issues with stamina and distractibility.
- Move Sandy into a mathematics intervention period earlier in the school day to help with distractibility.
- Provide increased feedback and opportunities to practice, especially with long division problems.



Sandy's teachers met and decide to:

- · Continue her intensified math intervention.
- Make the following adaptations to include a behavioral component:
  - Add a self-regulation component to the intervention to be tracked by Sandy.
  - Add weekly check-ins with Sandy and her intervention teacher to assess behavior progress monitoring data.



Activator Activity: KWLQ					
		What I Know	What I Want to Know	What I Learned	Questions I Still I Have
	Multi-Tiered Systems of Support				
Har	ndout I.1			1	





#### References

Center on Response to Intervention at American Institutes for Research. (2010). The essential components of RTI: A closer look at response to intervention. Retrieved from <u>https://rti4success.org/resource/essential-components-rti-</u> closer-look-response-intervention

Gertsen, R., Jordan, N. & Flojo, J. (2004). Early identification and interventions for students with mathematics difficulties. *The Journal of Learning Disabilities*, 38, 4, 293–304.

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McLeskey, J., & Brownell, M. (2015). High-Leverage Practices and Teacher Preparation in Special Education.

National Center on Response to Intervention. (2012). *The essential components of RTI.* Retrieved from www.rti4success.org.







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# Multi-Tiered Systems of Support (MTSS) Implementation

## Participant Workbook



## Handout 1.1: Activator Activity

	What I Know	What I Want to Know	What I Want to Learn	Questions I Still Have
Multi-Tiered Systems of Support				
(MTSS)				

## Handout 1.2: Clarifying MTSS Misconceptions

What MTSS is	What MTSS is not
A <b>prevention</b> framework for school improvement made up of core components and features	A program or curriculum
For <b>all</b> students, including those students in need of enrichment	Just for struggling students or students with disabilities
Flexible for schools and districts to customize to meet their unique circumstances	A one-size-fits-all prescriptive model
Collaborative and incorporates a team-based approach of representative stakeholders	The responsibility of one teacher or one specialist
Data driven, using multiple valid and reliable data sources	Based on assumptions or unreliable data
A framework that can be used to assist with special education decisions	Pre-referral process for special education

## Handout 1.3: Activator Activity

**Directions:** Generate three to five practices you believe are the most important teaching practices all classroom teachers need to know, and write them in the first column. Leave the second column empty. We will revisit this activity at the end of the module.

	What I believe are the most important practices teachers need to know to implement core instruction.	What research indicates are the most important practices teachers need to know to implement core instruction.
1.		
2.		
3.		
4.		
5.		

## Handout 1.4: High-Leverage Practice (HLP) Expert Note-Taking Guide

#### **Directions**:

- 1. Get into groups of 4 to 5 participants.
- 2. Identify one of the HLPs from #7 through #22.
- 3. Provide individual team members 5–7 minutes to review their assigned practices and highlight key points.
- 4. Have individual team members briefly describe their assigned practices with the group (~1 minute per practice).
- 5. Discuss implementation considerations.

A link to the high-leverage practices can be found here: <u>https://highleveragepractices.org</u>

Key Points	Implementation Considerations

# Handout 1.5: Tools for Identifying Evidence-Based Interventions

Several online tools are available to assist educators in identifying evidence-based strategies and published interventions. This handout describes three of these resources.

### What Works Clearinghouse (WWC)

- **Topics:** Literacy, Mathematics, Science, Student Behavior, Youth with Disabilities, College and Career, Dropout, Early Childhood, Education Technology, English Language Learners
- **Resources**: Intervention Research Reports, Practice Guides, Videos of Effective Math Practices, Reviewed Research Studies
- Search Features: Search by topic and subcomponents, grade (preK to 16), effectiveness, delivery method (whole class, small group, 1:1), program type (curriculum, intervention, practice), race, gender
- **Results:** Improvement Index (expected change in percentile rank), effectiveness rating (e.g., positive, potentially positive, mixed), effect size (overall and by subcomponents found at end of Intervention Report)
- Funding Source: Institute of Education Sciences, U.S. Department of Education
- Website: <u>http://ies.ed.gov/ncee/wwc/</u>

## National Center for Intensive Interventions (NCII) Tools Charts

- Topics: Academic (Mathematics, Reading, Writing) and Behavior
- **Resources:** Behavior and Academic Interventions Tools Charts, Glossary of Terms, User Guide, Audio Tour, Progress Monitoring Tools Charts, Webinars, Sample Lessons and Activities, Newsletters
- Search Features: Search by elementary or middle/high school, subject/behavior, effect size, study, intervention title, study quality
- **Results**: Quality of research study (e.g., fidelity of implementation, participants, design), effect size (targeted and broad measures), intervention implementation information (group size, duration, delivery method)
- Funding Source: Office of Special Education Programs, U.S. Department of Education
- Website: <u>www.intensiveintervention.org</u>

## **Best Evidence Encyclopedia**

- **Topics:** Mathematics, Reading, Science, School Reform, Early Childhood, Technology, English Language Learners
- **Resources:** Magazine, Articles, Program Reviews, Newsletters, Full Reports, Educator Summaries
- Search Features: Search by topic, elementary or middle/high school, top-rated programs,
- **Results:** Rating of Evidence of Effectiveness (strong, moderate, limited or insufficient evidence), type of program, description
- **Funding Source:** Johns Hopkins University School of Education's Center for Data-Driven Reform in Education (CDDRE) under funding from the Institute of Education Sciences, U.S. Department of Education.
- Website: <u>www.bestevidence.org</u>

## Handout 1.6: Data-Based Individualization Process



Source: National Center on Intensive Intervention (NCII), http://www.intensiveintervention.org/

## **MTSS Presentation Glossary**

**Core curriculum.** The core curriculum includes the materials and instructional standards required of all students in the general education setting. Core curricula often are instituted at the elementary and secondary levels by local school boards, departments of education, or other administrative agencies charged with overseeing education.

**Data-based decision making.** Data-based decision making is the ongoing process of analyzing and evaluating student data to inform educational decisions, including but not limited to approaches to instruction, intervention, allocation of resources, development of policy, movement within a multi-level system, and disability identification.

**Evidence-based intervention.** An evidence-based intervention is an intervention for which data from scientific, rigorous research studies have demonstrated (or empirically validated) the efficacy of the intervention. Applying findings from experimental studies, single-case studies, or strong quasi-experimental studies, an evidence-based intervention improves student learning beyond what is expected without that intervention.

**Fidelity of implementation.** Fidelity of implementation refers to the accurate and consistent delivery of instruction or assessment in the manner in which it was designed or prescribed according to research findings and/or developers' specifications. Five common aspects of fidelity are adherence, exposure, program differentiation, student responsiveness, and quality of delivery.

**Individualized Education Program (IEP).** An IEP is a legal document that describes the plan for delivering specially designed instruction, related services, and accommodations to meet the educational needs of a student with a disability.

**Individuals with Disabilities Education Act (IDEA).** IDEA was originally passed in 1975 as the Education for All Handicapped Children Act, with the latest reauthorization in 2004. It is the federal special education law that guarantees a free, appropriate, public education in the least restrictive environment for students with disabilities from birth through age 21. IDEA 2004 allows response to intervention to be used as a basis for decision making when determining whether a student is eligible for special education services as a student with a learning disability.

**Multi-Tiered Systems of Support (MTSS).** MTSS is a prevention framework that organizes building-level resources to address each individual student's academic and/or behavioral needs within intervention tiers that vary in intensity. MTSS allows for the early identification of learning and behavioral challenges and timely intervention for students who are at risk for poor learning outcomes. It also may be called a multi-level prevention system. The increasingly intense tiers (e.g., Tier 1, Tier 2, Tier 3), sometimes referred to as levels of prevention (i.e., primary, secondary, intensive prevention levels), represent a continuum of supports. Response to intervention (RTI) and positive behavioral interventions and supports (PBIS) are examples of MTSS.

**Positive Behavioral Interventions and Supports (PBIS).** PBIS is a tiered behavior support framework for enhancing the adoption and implementation of a continuum of evidence-based interventions to achieve behaviorally important outcomes for all students. PBIS provides a decision-making framework that guides the selection, integration, and implementation of preventive and instructive behavioral practices. For additional information, view the National Technical Assistance Center on Positive Behavioral Interventions and Supports website (https://www.pbis.org/).

**Problem-solving approach.** Within an MTSS or PBIS model, a problem-solving approach is used to tailor an intervention for an individual student. A problem-solving approach typically has four stages: problem identification, problem analysis, plan implementation, and plan evaluation.

**Progress monitoring.** Progress monitoring is used to assess a student's performance, to quantify his or her rate of improvement or responsiveness to intervention, to adjust the student's instructional program to make it more effective and suited to the student's needs, and to evaluate the effectiveness of the intervention. For additional information, view the National Center on Intensive Intervention's Academic Progress Monitoring and Behavioral Progress Monitoring Tools Charts (http://www.intensiveintervention.org/resources/tools-charts).

**Screening.** Screening is conducted to identify students who may be at risk for poor learning outcomes so that early intervention can occur. Screening assessments typically are brief and usually are administered with all students at a grade level. Some schools use a gated screening system, in which universal screening is followed by additional testing or short-term progress monitoring to confirm a student's risk status before intervention occurs.

**Tier 1.** Tier 1 also may be referred to as the core curriculum or primary prevention level. The primary prevention level is the first level in a multi-level prevention system. It consists of high-quality core curriculum and research-based instructional practices that meet the needs of most students

**Tier 2.** Tier 2 also may be referred to as the targeted intervention or secondary prevention level. It is the second level of intensity in a multi-level prevention system. Interventions occurring at the secondary level are evidence based and address the learning or behavioral challenges of students identified as at risk for poor learning or behavioral outcomes.

**Tier 3.** Tier 3 may be referred to as intensive intervention or tertiary prevention level. This level is typically the most intense level of a multi-level prevention system. Tier 3 consists of individualized, intensive intervention(s) for students who have severe and persistent learning or behavioral needs. Data-based individualization is an approach that may be used within the tertiary prevention level.

## **Tiered Systems**

Accommodations. Accommodations are changes to instruction or assessment administration that are designed to increase students' access to materials or enable them to demonstrate what they know by mitigating the impact of their disability. They also are designed to provide equity, not advantage, for children with disabilities.

**Benchmark.** A benchmark is a pre-determined level of performance on a screening or progress monitoring assessment that is considered representative of proficiency or mastery of a certain set of skills.

**Core curriculum.** The core curriculum includes the materials and instructional standards required of all students in the general education setting. Core curricula often are instituted at the elementary and secondary levels by local school boards, departments of education, or other administrative agencies charged with overseeing education

**Differentiated instruction.** Differentiated instruction refers to an educator's strategies for purposely adjusting curriculum, teaching environments, and instructional practices to align instruction with the goal of meeting the needs of individual students. Four elements of the curriculum may be differentiated: content, process, products, and learning environment.

**Evidence-based intervention or practice.** An evidence-based intervention is an intervention for which data from scientific, rigorous research studies have demonstrated (or empirically validated) the efficacy of the intervention. Applying findings from experimental studies, singlecase studies, or strong quasi-experimental studies, an evidence-based intervention improves student learning beyond what would be expected without that intervention.

**Fidelity of implementation.** Fidelity of implementation refers to the accurate and consistent delivery of instruction or assessment in the manner in which it was designed or prescribed according to research findings and/or developers' specifications. Five common aspects of fidelity are adherence, exposure, program differentiation, student responsiveness, and quality of delivery.

**High-leverage practices.** High leverage practices are cross cutting practices that are used by all teachers in delivering classroom instruction and evidence-based interventions and practices. They are considered essential to effective teaching, limited in number, observable, and of sufficient grain size to preserve complexity of teaching.

**Research-based curricula.** Incorporate design features that have been researched generally; however, the curriculum or program as a whole has not been studied using a rigorous research design.

**Primary prevention.** Level primary prevention may also be referred to as the core curriculum or Tier I. The primary prevention level is the first level in a multi-level prevention system. It consists of high-quality core curriculum and research-based instructional practices that meet the needs of most students.



## Multi-Tiered Systems of Support (MTSS) Implementation: Reflection and Action Planning Sheet

#### Instructions

This planning sheet provides schools with a space to reflect and identify goals and next steps that are appropriate for developing and/or strengthening a district or school-wide MTSS framework.

Work with your district team to review the MTSS components below. After reflecting on your district's implementation status for each of the questions, begin drafting some goals and next steps that are most relevant to your role.

## MTSS Essential Components

MTSS Essential Component	Guiding Questions	Status/Notes
	What other initiatives are in your district? How can you align those initiatives within your MTSS framework?	
	Do you have a district implementation team to support MTSS implementation? Who are the members of that team? Is there someone with executive leadership authority on the team?	
MTSS Vision and Teams	Does the district currently have an implementation plan for MTSS that uses fidelity data, student outcome data, capacity data, scale-up data, and includes goals that are measurable?	
	Is there a district communication plan about MTSS? Does the communication plan include internal and external stakeholders?	
	Does the district team plan for continuous improvement of staff skills through professional development and/or coaching?	
	What are the district decision rules (e.g., between tiers), cut points, and data-based decision-making framework process?	

	Does your district meet frequently to identify students at-risk for poor learning outcomes?	
Tier 1	What are the strengths and weaknesses of your district core curriculum programs?	
	Are your core curriculum standards aligned, evidence based, comprehensive, and meeting the needs of 80% of the students?	
	How do you ensure that teachers are implementing interventions with fidelity?	
	What is the district's guidance around evidence-based programs and practices that should be used at Tier 2?	
TT i con D	Is there guidance around how schools should set up their schedules to ensure they are truly supplemental to Tier 1?	
Tier 2	How do teachers monitor responsiveness in Tier 2?	
	What funding or other resources, if any, are available to help schools implement Tier 2, standardized interventions?	
	What are the strengths and weaknesses of Tier 2 systems in your district?	

Tion 2	How do you ensure that teachers are implementing interventions with fidelity?	
Tier 3	What are the strengths and weaknesses of Tier 3 systems in your district?	
	What is the district guidance around evidence-based programs and practices that should be used at Tier 3?	
	How do teachers monitor responsiveness in Tier 3?	
	Is there guidance around using Data-Based Individualization (DBI) to intensify instruction at Tier 3?	
	How are students with disabilities served across tiers?	

MTSS Essential Component	Choose 5 priorities from the above sections:	Goals/Action Steps		
		Action Steps	Person Responsible	
	1.			
MTSS Vision and Teams				
Tier 1				
Tier 2	2.			
Tier 3				

	Choose priorities from the above sections:	Goals/Action Steps		
		Action Steps	Person Responsible	
	3.			
	4.			
	5.			



## Resources

#### **Resource Documents**

**Essential Components of RTI—A Closer Look at Response to Intervention**, National Center on Response to Intervention (NCRTI). This resource provides a definition of RTI, reviews essential RTI components, and responds to frequently asked questions. The information presented is intended to provide educators with guidance for RTI implementation that reflects research and evidence-based practices and supports the implementation of a comprehensive RTI framework.

http://www.rti4success.org/sites/default/files/rtiessentialcomponents\_042710.pdf

Information Brief: Developing an RTI Guidance Document, NCRTI. This tool is based on the lessons learned from providing support to states developing guidance documents. Included are frequently asked questions about guidance documents and a template to help states, districts, and schools develop their own documents. http://www.rti4success.org/resource/developing-rti-guidance-document

Implementation Research: A Synthesis of Literature, National Implementation Research Center (NIRN). This monograph summarizes findings from an extensive review of the research literature on the implementation of evidence-based practices. http://nirn.fpg.unc.edu/sites/nirn.fpg.unc.edu/files/resources/NIRN-MonographFull-01-2005.pdf

Implementing RTI Using Title I, Title III, and CEIS Funds: Key Issues for Decision-Makers, U.S. Department of Education. This presentation answers questions specifically about funds provided under three federal programs: Title I of the Elementary and Secondary Education Act, Title III of the Elementary and Secondary Education Act, and funds for Coordinated Early Intervening Services (CEIS), available under the Individuals with Disabilities Education Act (IDEA).

http://www.rti4success.org/resource/implementing-rti-using-title-i-title-iii-and-ceis-funds-key-issues-decision-makers

**Response to Intervention (RTI): Funding Questions and Answers,** NCRTI. This document provides written responses from the U.S. Department of Education Office of Special Education Programs (OSEP) on the use of Individuals with Disabilities Education Act (IDEA) funds for the implementation of RTI and answers eight commonly asked questions on funding RTI. <u>http://www.rti4success.org/resource/response-intervention-rti-funding-questions-and-answers</u>

**RTI Glossary of Term (PDF),** NCRTI This glossary defines some of the most commonly used terms in an RTI framework. <u>http://www.rti4success.org/resources/rti-glossary-terms</u>

**RTI Pilot Site Selection: Things to Consider,** NCRTI. Pilot sites often play an important part in effective RTI implementation. This information brief guides teams through the steps of developing an RTI pilot site selection process. It provides team facilitators discussion questions that they can use to help teams examine their priorities, evaluation strategies, resources, and possible selection processes. http://www.rti4success.org/resource/rti-pilot-site-selection-things-consider

**RTI Placemat (PDF)**. This at-a-glance "RTI placemat" serves as a supplemental resource to the Essential Components document. <u>http://www.rti4success.org/sites/default/files/RTI\_Placemat\_2015.pdf</u>

#### Videos

Ask the Expert: How can I get teachers and staff to buy in to the RTI process? (2:00 minutes). Dr. Evelyn Johnson, NCRTI, responds to this question (May 2010). http://www.rti4success.org/video/how-can-i-get-teachers-and-staff-buy-rti-process

Ask the Expert: How does RTI differ from previous approaches to providing interventions? (5:46 minutes). Dr. Tessie Rose Bailey, NCRTI, responds to the question (October 2010). <u>http://www.rti4success.org/video/how-does-rti-differ-previous-approaches-providing-interventions</u>

Ask the Expert: How does RTI fit in with other policy initiatives? (3:16 minutes). Dr. Evelyn Johnson, NCRTI, responds to this question (September 2010). http://www.rti4success.org/video/how-does-rti-fit-other-policy-initiatives

Ask the Expert: We hear a lot about fidelity of implementation when talking about RTI. What does this really mean? (05:17 minutes). Doug Fuchs, NCRTI, responds to this question (March 2010). <u>http://www.rti4success.org/video/we-hear-lot-about-fidelity-implementation-when-talking-about-rti-what-does-really-mean</u>

Ask the Expert: If an elementary school is already implementing RTI in academic subjects, what is the best way for them to begin to incorporate behavior interventions? (6:16 minutes). Joe Wehby, NCRTI, responds to this question (March 2012). <u>http://www.rti4success.org/video/if-elementary-school-already-implementing-rti-academic-subjects-what-best-way-them-begin</u>

Ask the Expert: What is RTI and what are the essential components that must be present for it to be implemented with fidelity? (5:46 minutes). Whitney Donaldson, NCRTI, responds to this question (October 2010).

http://www.rti4success.org/video/what-rti-and-what-are-essential-components-must-be-present

**Essential Components: What is response to intervention (RTI)?** (26:30 minutes). Dr. Tessie Rose Bailey, NCRTI, responds to this question. A recorded webinar, webinar transcript, PDF version, and Live Chat Q&A are available. http://www.rti4success.org/video/what-rti-essential-components

#### **Webinars**

**Planning and First Steps for RTI,** NCRTI. In this webinar, Dr. Alexandra Hilt-Panahon and Deborah Gould Stover provides examples of what planning is required before successfully implementing RTI as well as the initial steps that should be taken when implementing RTI within schools. Examples illustrate how elementary schools have used RTI to address the needs of culturally and linguistically diverse student populations. In addition, the webinar shares how elementary schools have resolved challenges such as revising schedules and reallocating personnel to provide interventions. <u>http://www.rti4success.org/video/planning-and-first-steps-rti</u>

**Planning and First Steps for RTI** (57:34 minutes), NCRTI. This webinar provides examples of what planning is required before successfully implementing RTI as well as the initial steps that should be taken when implementing RTI within schools. Examples illustrate how elementary schools have used RTI to address the needs of culturally and linguistically diverse student populations. In addition, ideas are shared to show how elementary schools have resolved challenges such as revising schedules and reallocating personnel to provide interventions. http://www.rti4success.org/webinars/video/888%20

**RTI Implementation: Developing Effective Schedules at the Elementary Level,** NCRTI. This 60-minute recording offers recommendations for efficient, effective, and sustainable schedules. It also addresses issues related to the development of effective schedules for the implementation of RTI at the elementary level, including the scheduling of core instruction, intervention time, team meetings, and planning. <u>http://www.rti4success.org/video/rti-implementation-developing-effective-scheduleselementary-level</u>

We're "Doing RTI"—A Closer Look at Implementation (51:28 minutes), NCRTI. In this webinar, Dr. Rebecca Zumeta, NCRTI, and Mike Jacobsen, Director of Assessment in RTI, in Washington state's White River School District, discuss how NCRTI's implementation integrity rubric was used to conduct an interview process that helped the state's pilot sites evaluate their RTI implementation. http://www.rti4success.org/video/were-doing-rti-closer-look-implementation

#### <u>Tools</u>

Active Implementation Tools, SISEP and NIRN. Active Implementation Lessons on tools are very short (5–15 minutes), and interactive Web presentations are designed to help you and your team get started and get better with Active Implementation. They focus on specific implementation tools and practices and can be viewed online for self-paced learning or used for professional development in a team setting. http://implementation.fpg.unc.edu/modules-and-lessons

**Essential Components of RTI Integrity Rubric and Worksheet,** NCRTI. The RTI Essential Components Integrity Rubric and the RTI Essential Components Integrity Worksheet are for use by individuals responsible for monitoring the school-level fidelity of RTI implementation. The rubric and the worksheet are designed to be used together and are aligned with the essential components of RTI.

http://www.rti4success.org/resource/essential-components-rti-integrity-rubric-andworksheet

**Get Started: MTSS Implementation,** RTI Action Network. This online resource focuses on the necessary steps for developing a building-level plan for successful implementation of multi-tiered systems of support (MTSS). It includes five sections: Building Support, Develop a Plan, Implement Your Plan, Evaluate and Refine, and Checklists and Forms. <u>http://www.rtinetwork.org/getstarted</u>

**Implementing District Positive Behavioral and Interventions and Supports (PBIS)**, PBIS. The Web resource outlines the district-level infrastructure necessary to implement and sustain a tiered system of behavior support. Users can access tools, articles, videos, and training resources. http://www.pbis.org/school/district-level

**MTSS Checklists and Forms**, RTI Action Network. This site provides sample MTSS planning forms and checklists, such as *Self-Assessment of Problem Solving Implementation* (SAPSI), treatment integrity protocols, beliefs and perceptions of MTSS skills surveys, and intervention documentation forms. http://www.rtinetwork.org/getstarted/checklists-and-forms

**Scaling-Up Tools and Resources**, SISEP. The SISEP Center produces a variety of tools and resources for implementation, scaling up, and system reinvention work as well as delivers online and off-line coaching, teaching, and learning. http://sisep.fpg.unc.edu/tools-and-resources/home

#### **Training Modules**

Active Implementation (AI) Modules, State Implementation & Scaling-up of Evidencebased Practices (SISEP) and National Implementation Research Network (NIRN). AI Modules are short (30–45 minutes) online modules designed to be self-paced or blended with in pre-service and in-service training. They include content, activities, and assessments designed to promote the knowledge and practice of implementation science and scaling up.

http://implementation.fpg.unc.edu/modules-and-lessons

**Developing an RTI Professional Development Plan: Things to Consider**, NCRTI. This module is designed to help participants plan effective and appropriate professional development (PD) based on research, data, and best practices. Through the module, participants will increase their understanding of the necessary considerations for developing a PD plan, increase awareness of available PD tools, and draft a PD plan. <u>http://www.rti4success.org/resource/developing-rti-professional-development-plan-</u> things-consider

**RTI Implementer Series Self-Paced Learning Modules**, NCRTI. The RTI Implementer Series Self-Paced Learning Modules is a series of 11 learning modules for implementers of RTI. The learning modules are intended to provide foundational knowledge about the essential components of RTI and to build an understanding about the importance of RTI implementation. Each module includes the learning module (live version and downloadable version), transcript, PowerPoint presentation, handouts, and the training manual (if available). <u>http://www.rti4success.org/resource/rti-implementer-series-self-paced-learning-modules</u>

**Train-the-Trainer Materials: Response to Intervention Implementer Series**, NCRTI. These materials are intended for use by those wishing to conduct a training-of-trainers (TOT) for the RTI Implementer Series. TOT facilitators should have knowledge of the materials provided here, the Implementer Series training module materials (e.g., PowerPoints, training manuals, and handouts), Facilitator's Guide, and related readings found on the center's website. The three Implementer Series training modules are intended for beginning implementers of RTI and provide foundational knowledge about the essential components of RTI and to build an understanding about the importance of RTI implementation. <u>http://www.rti4success.org/resource/train-trainer-materialsresponse-intervention-implementer-series</u>

#### **General Web Resources**

The National Center for Response to Intervention, NCRTI.\_The NCRTI website provides various user-friendly resources for elementary and secondary schools and districts implementing schoolwide tiered systems of support. Resources include training materials, video clips and webinars, tools charts, and access to numerous documents. http://rti4success.org

**National Center on Intensive Interventions (NCII)**.\_NCII's mission is to build district and school capacity to support implementation of data-based individualization in reading, mathematics, and behavior for students with severe and persistent learning and behavioral needs. <u>http://www.intensiveintervention.org/</u>

National Implementation Research Network (NIRN). The mission of NIRN is to contribute to the best practices and science of implementation, organization change, and system reinvention to improve outcomes across the spectrum of human services. The website provides resources and trainings materials to support implementation. http://nirn.fpg.unc.edu/

**Positive Behavioral Interventions and Support (PBIS)**. PBIS is a national technical assistance center that emphasizes the impact of implementing PBIS on the social, emotional, and academic outcomes for students with disabilities. The website provides recorded videos and webinars, self-paced training materials, and implementation resources. http://www.pbis.org/

**RTI Action Network**. This website provides information for practitioners with information on what is RTI, professional development opportunities, implementation information, and opportunities to connect with others. <u>http://www.rtinetwork.org/</u>

State Implementation & Scaling-up of Evidence-based Practices (SISEP) Center. SISEP has been working with several states on scaling up RTI, transition programs, and PBIS statewide. This site has numerous resources, including assessments of implementation, planning resources, and evaluation resources. https://sisep.fpg.unc.edu/