

# Element II: Data Use

Overview

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# Element II. Data Use

In MTSS–R, data are used to make decisions to improve MTSS–R implementation and student outcomes. Two types of data are used for this: student data (Part I) and MTSS–R implementation data (Part II).

- Section 1: Student Reading Data – General Considerations
- Section 2: Student Reading Data – Universal Screening Data
- Section 3: Student Reading Data – Progress Monitoring Data
- Section 4: Student Reading Data – Diagnostic Assessment Data
- Section 5: Student Reading Data – Lesson Mastery Data
- Section 6: Implementation Data – General Considerations
- Section 7: Implementation Data – Reading Instruction and Intervention
- Section 8: Implementation Data – PD and Coaching
- Section 9: Implementation Data – MTSS–R School Leadership



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# ELEMENT II: DATA USE

Two types of data are used to make decisions to improve MTSS–R implementation and student outcomes

- **Student data (Part I)**
- MTSS–R implementation data (Part II)

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### A Comprehensive System of Student Reading Data

Use **multiple data sources** to answer essential questions:

Assessment Type	Important Question(s)
Universal Screening	Are students meeting key reading benchmarks? Which students are at risk?
Progress Monitoring	Is the student at risk making adequate progress in the intervention?
Individual Diagnostic	What specific skills has the student not making adequate progress mastered and not mastered?
Lesson Mastery	Is the student learning the instructional content just taught in the lesson?

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(Clarke, 2020)

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### Types of Student Reading Data

Assessment	Type	Timing	Duration
Universal Screening	Formative/Summative	3x per year	Short (1-2 mins per measure) (multiple measures)
Progress Monitoring	Formative	1-4x per month	Short (1-2 mins per measure)
Diagnostic	Formative	As needed	Medium / Long (1-10 mins per measure)
Lesson Mastery	Formative	At completion of lesson	Medium (1-10 mins per measure)

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Universal  
Screening

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## Universal Screening Assessments in Reading

Purpose	Identify students who are at risk for 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 three times per year (fall, winter, spring)



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National Center on RTI (2012)

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## Examples of measures on screening assessments

Measures	Recommended Grades
<ul style="list-style-type: none"> <li>Letter Naming Fluency (LNF)</li> <li>Letter Sound Fluency (LSF)</li> <li>Phoneme Segmentation Fluency (PSF)</li> </ul>	K - 1
<ul style="list-style-type: none"> <li>Word Identification Fluency (WIF)</li> </ul>	1-2
<ul style="list-style-type: none"> <li>Nonsense Word Fluency (NWF)</li> <li>Oral Reading Fluency (ORF)</li> </ul>	1+
<ul style="list-style-type: none"> <li>Maze or Maze Fluency</li> </ul>	4+



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IES (2009); National Center on RTI (2012)

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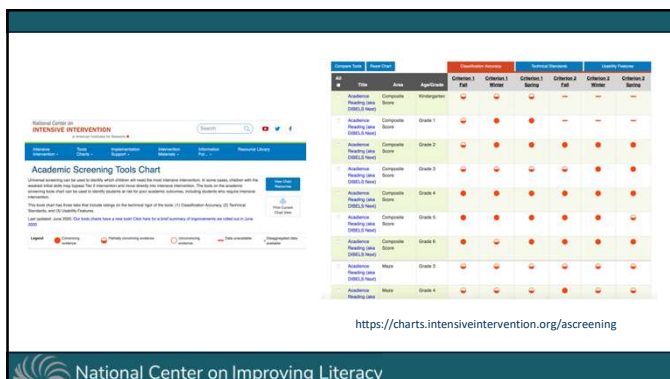
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Use the *Assessment and Coordination Plan* to Document Screening Data Plans



Grade Level:	Screening	Progress Monitoring	Diagnostics	Lesson Mastery	Implementation
	Measures				
Purpose					
Timeline					
What students will be assessed?					n/a
Who is the school request?					
Who is collecting the data?					
When is the training/monitoring?					
Who is entering the data?					
Where is the data stored?					
What TEASOS are using this data?	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> Split Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> Split Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> Split Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> Split Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> Split Eligibility

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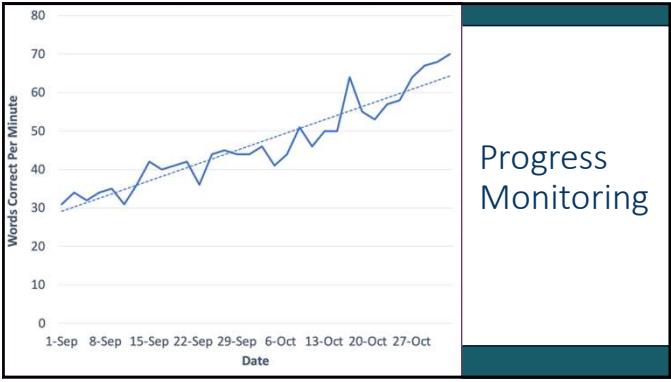
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Progress Monitoring in Reading

Purpose	Determine if students at risk are making adequate progress in response to intervention
Focus	All students at risk for reading problems; other students if needed
Tools	Brief assessments that are reliable and valid and sensitive to progress over time
Time Frame	Regular administration; weekly, biweekly, or monthly

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## Progress Monitoring Assessments

- PM measures work well when they are aligned with screening assessments
- PM measures are used more frequently, so multiple comparable **forms** are needed
- PM measures should be aligned to students' area(s) of difficulty (e.g. decoding or reading fluency)
- PM goals should be set to determine whether students are making adequate progress



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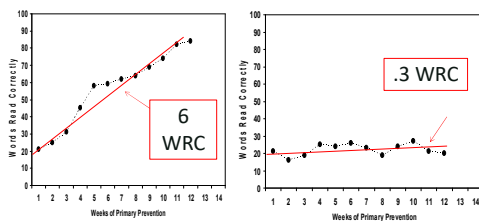
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## PM Data Can Estimate Rates of Improvement



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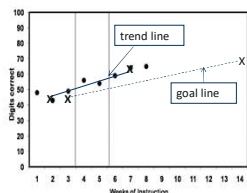
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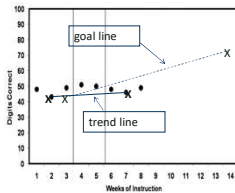
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## PM Data Can Identify Students Not Making Adequate Progress with Intervention

*Increasing Scores:*



*Flat Scores:*



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Use the *Assessment and Coordination Plan* to Document Progress Monitoring Data Plans



Grade level:	Screening	Progress Monitoring	Diagnostics	Lesson Mastery	Implementation
Measures					
Purpose(s)					
Timeline					
What students will be assessed?					N/A
Who is the school expert?					
Who is collecting the data?					
When is the training/retooling?					
Who is entering the data?					
Where is the data stored?					
What TEAMS are using this data?	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLCs <input type="checkbox"/> SpEd Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLCs <input type="checkbox"/> SpEd Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLCs <input type="checkbox"/> SpEd Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLCs <input type="checkbox"/> SpEd Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLCs <input type="checkbox"/> SpEd Eligibility

[illegible]

A woman with dark, curly hair, wearing a white sweater, is sitting at a table with a young boy. The boy is wearing a plaid shirt and is looking down at a newspaper or magazine on the table. They are surrounded by colorful blocks and other educational materials. The background shows a classroom setting with shelves and other children.

[illegible]

## Diagnostic Assessments

Purpose	Identify specific literacy skill strengths and weaknesses to inform intervention intensification
Focus	Students identified through screening/PM as at-risk for poor literacy skill acquisition, and are not making adequate progress
Tools	Longer assessments often standardized; also quicker, less standardized assessments. Psychometric quality varies
Time Frame	Students are assessed on an as-needed basis

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## Diagnostic Assessments

Keys to diagnostic assessments?

- They assess or “diagnose” instructional need; they do NOT diagnose disabilities or dyslexia
- **Increased specificity** to tap individual student strengths and weaknesses
- Should provide data on **areas of instruction to be intensified** for an individual student
- Can be **standardized** (available through publishers) or **informal** (created by teachers)
- Can be **combined with multiple data sources** (e.g., parent feedback) to narrow in on instruction need

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## Diagnostic Assessment Examples

- CORE Phonics Screener
- Phonological Awareness Skills Test (PAST)
- Teacher-made phonics assessment

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Student Name: \_\_\_\_\_ Grade: \_\_\_\_\_

1. Letter Names  
M A F K J Z X R E  
C Q H T O D L P W  
S U I B N Y G V  
"Tell me the names of these letters."

2. Letter Sounds  
m a f k j z x r e  
c q h t o d l p w  
"Tell me the sound that each letter makes."

3. Short Vowel Words  
e i a u o  
"Read these words the best you can. The top row are words you may recognize. The bottom row are not real words."

4. Generic Phonics Screener  
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## Use the *Assessment and Coordination Plan* to Document Diagnostic Data Plans

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Grade Level:	Screening	Progress Monitoring	Diagnostics	Lesson Mastery	Implementation
Measures					
Purpose					
Timeline					n/a
What students will be assessed?					
Who is the school aspect?					
Who is collecting the data?					
When is the training/retaining?					
Who is entering the data?					
When is the data stored?					
What TEAMS are using the data?	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SpEd English	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SpEd English	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SpEd English	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SpEd English	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SpEd English

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### Lesson Mastery

Purpose	Identify lesson components where the learner has reached a mastery level of proficiency
Focus	ALL students who receive the lesson; especially critical to collect for students at risk
Tools	Brief assessments that are either curriculum-embedded or proximal to lesson content
Time Frame	Shortly after completion of a lesson, or within a lesson; interwoven throughout the year to ensure retention of mastery-level proficiency

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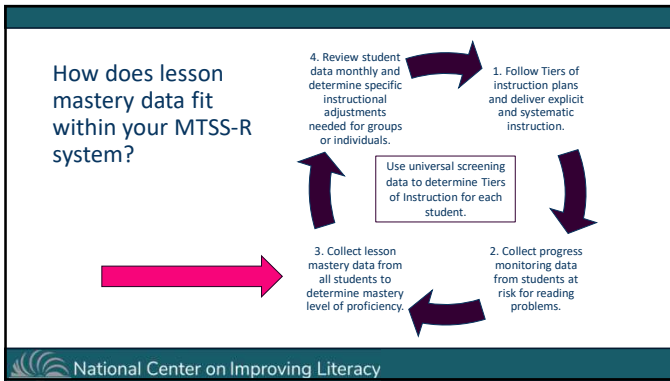
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## Lesson Mastery Data

- Spans all tiers of instruction and intervention
- Is unique because it is **narrowly focused** on assessing for **student understanding of lesson content**
- Is **not** a general outcome measure (e.g., not oral reading fluency)
- Does not necessarily have to meet psychometric standards (e.g., reliability and validity)



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## Lesson Mastery Data

- May be packaged with curriculum or teacher created
- May be collected *during* instruction (error data), or *after* instruction
- Should have high confidence that students can respond correctly to 85% of the items on the assessment
- Should be delivered with consistency and linked with alterable instruction – WHAT instructional adjustments need to happen?



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## Selecting Lesson Mastery Tools

When choosing an appropriate lesson mastery tool to track student progress, consider:

1. what skill(s) the assessment measures (e.g., phonological awareness, phonics, fluency with connected text, vocabulary, comprehension)?  
and
2. how will you use the data to inform instruction?



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Example: Lesson Mastery Data  
collected during instruction

- Daily lesson mastery is determined by recording errors made during the lesson (e.g., check for understanding)
- Teacher records data on specific sounds or words students have not yet mastered during the lesson.
- Recorded errors can be re-taught at the end of each lesson and at the start of the next lesson.

**Early Memory Entry Template, Part 3 - Overview**

Early Memory Entry Template  
 Part 3 - Overview

→

Overview and Instructions  
 for the Early Memory Entry  
 Template

→

Overview and Instructions  
 for the Early Memory Entry  
 Template

→

Overview and Instructions  
 for the Early Memory Entry  
 Template

		Overview and Instructions	Overview and Instructions	Overview and Instructions	Overview and Instructions
Early Memory Entry Template Part 3 - Overview	Overview and Instructions for the Early Memory Entry Template				
	Overview and Instructions for the Early Memory Entry Template				
Early Memory Entry Template Part 3 - Overview	Overview and Instructions for the Early Memory Entry Template				
	Overview and Instructions for the Early Memory Entry Template				
Early Memory Entry Template Part 3 - Overview	Overview and Instructions for the Early Memory Entry Template				
	Overview and Instructions for the Early Memory Entry Template				
Early Memory Entry Template Part 3 - Overview	Overview and Instructions for the Early Memory Entry Template				
	Overview and Instructions for the Early Memory Entry Template				

Notes: This overview and instructions for the Early Memory Entry Template, Part 3 - Overview and Instructions, is intended to assist in understanding the template.

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[illegible]

Example: Lesson Mastery Data collected during instruction

- Accuracy and fluency of connected text reading data is gathered while students are reading decodable texts
- Teacher records data on the extent to which students can apply the sounds and words they have just been taught to reading connected text.
- Consistent accuracy errors indicate the need to re-teach specific sound-spellings or blending skills. Consistent fluency errors indicate the need to provide additional practice reading in decodable texts.

**Daily Accuracy and Fluency Log**

Students read individual words and phrases from the list. Teacher records the number of words read correctly.

➡

Students read individual words and phrases from the list. Teacher records the number of words read correctly.

➡

Students read individual words and phrases from the list. Teacher records the number of words read correctly.

Date		Sounding Letters	
Initial	Final	Initial	Final
Accuracy	7	7	7
Fluency	7	7	7

Date		Sounding Letters	
Initial	Final	Initial	Final
Accuracy	7	7	7
Fluency	7	7	7

Date		Sounding Letters	
Initial	Final	Initial	Final
Accuracy	7	7	7
Fluency	7	7	7

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Example: Lesson Mastery Data collected during instruction

Dictation:

- Teacher has students use paper and pens to collect dictation data at least 1x/week to determine which students can apply the sounds to written words they have just been taught.
- Consistent accuracy errors indicate the need to re-teach specific sound-spellings or segmenting skills.

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[illegible]

## Example: Lesson Mastery Data collected *after* instruction

- Unit Assessments from Core curriculum (because these assessments generally require reading skills, they are most appropriate for students who are at or above benchmark)
- Teacher collects data on how well students have mastered the skills within a unit.
- Errors indicate the need to re-teach specific skills. Results can also indicate areas of instruction to adjust, or improve, when moving on to the next unit of instruction.

The screenshot shows a lesson mastery data form for the story 'The Fall of the Giants'. It includes a section for 'Read the article "The Fall of the Giants" before answering Questions 1 through 5.' and a section for 'Now answer Questions 1 through 5. Read your answers on "The Fall of the Giants."'. The form contains multiple-choice questions about the story.

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## Example: Lesson Mastery Data collected *after* instruction

- End-of-unit teacher created assessment that accurately assesses mastery of unit content.
- Teacher collects data on how well students have mastered the skills within a unit.
- Errors indicate the need to re-teach specific skills. Results can also indicate areas of instruction to adjust, or improve, when moving on to the next unit of instruction.

The screenshot shows a lesson mastery data form for the story 'The Fall of the Giants'. It includes a section for 'UNIT 2: The Fall of the Giants' and a table for recording student performance. The table has columns for 'Student', '1A', '1B', '1C', '1D', '1E', '1F', '1G', '1H', '1I', '1J', '1K', '1L', '1M', '1N', '1O', '1P', '1Q', '1R', '1S', '1T', '1U', '1V', '1W', '1X', '1Y', '1Z'. The table is filled with data for each student.

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## Example: Lesson Mastery Data collected *after* instruction

- Other alternatives to students who may struggle with the packaged Core program assessment
  - Vocabulary -- display weekly vocabulary words without definition -- "Write the word that means [give the definition]." Students write the vocabulary word.
  - Teacher groups identify Core program worksheets that students complete at the end of each week, or unit, that can accurately assess content mastery

The screenshot shows a lesson mastery data form for the story 'The Fall of the Giants'. It includes a section for 'Vocabulary extension' and a section for 'The Student Learning Model'. The form contains multiple-choice questions about the story.

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## ELEMENT II: DATA USE

Two types of data are used to make decisions to improve MTSS–R implementation and student outcomes

- Student data (Part I)
- MTSS–R implementation data (Part II)



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## MTSS–R Data Use: Implementation Data

### What gets implemented?

- Reading instruction and intervention is implemented
- Professional development and coaching is implemented
- School MTSS–R Leadership is implemented

Data on the implementation of each of these elements should be collected . . . and used to improve implementation and outcomes



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## Instruction and Intervention Implementation Data



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## Implementation Data: Reading Instruction & Intervention

- Implementation data in Tiers I, II, and III should be collected systematically
- Goal is to assess the difference between what is expected and observed during instruction
- Three types of data are frequently collected:
  - Completed by an observer (e.g. reading coach, principal)
    1. Direct data collection while watching reading instruction in the classroom
    2. Surveys / ratings based on watching reading instruction in the classroom
  - Completed by staff delivering reading instruction
    3. Log of what has been taught



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## Types of Instruction and Intervention Implementation Data

- **Fidelity of Implementation** (instruction and intervention were taught as intended)
- **Quality of Implementation** (evidence-based implementation delivery practices: explanations, models, multiple practice opportunities for all students, checks of understanding, error corrections with feedback)
- **Evidence-Based Instructional Practices** (positive learning environment, organization, classroom management, active student participation and engagement strategies, motivational strategies)
- **Instruction and intervention Intensity** (group responses, individual responses, academic feedback, student error rates)



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## Fidelity of Implementation: Instructional Areas

- Irregular Word Reading
- Phonemic Awareness
- Sound-Spelling Introduction and Practice
- Blending Sounds
- Regular Word Reading
- Reading in Connected Text
- Encoding Practice
- Vocabulary
- Comprehension



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Quality of Implementation: Explicit Elements

- Explanation/Objective
- Models
- All Students Practicing
  - Appropriate Signal: Focus, Cue, Think Time, Signal
  - Appropriate Pacing
- Checks for Understanding
- Error Corrections

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Evidence-Based Instructional Practices:

- Community of Positive Learning
- Organization of Instructional Materials
- Classroom Management Techniques
- Student Participation and Engagement
- Use of Motivational Strategies
- Instructional Scaffolding

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Instruction and Intervention Intensity

- Group Responses
- Individual Responses
- Academic Feedback
- Student Errors



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PD and Coaching Implementation Data

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Implementation Data: PD & Coaching


Consider ways to collect both quantity and quality data related to PD and Coaching services provided to school staff

1. Collect PD and Coaching quantity and quality data from:

• Recipients of services (e.g., reading instruction staff)

• Providers of services (e.g., school or district coach)

2. Have PD and Coaching providers (e.g., school coach) keep logs of the services they provide – (who, what, when, where, why, and how)

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PD and Coaching Implementation Data

Topic: \_\_\_\_\_ Date: \_\_\_\_\_

Professional Development (PD) and Coaching Implementation Survey

Activity Type (check one): ☐ PD Workshop ☐ Job-Embedded PD ☐ Individual Coaching


Respondent Description: ☐ Recipient of PD or Coaching ☐ Provider of PD or Coaching

Scoring: 4 = Agree 3 = Slightly Agree 2 = Slightly Disagree 1 = Disagree

Item	Score
1. Knowledge shared was useful.	4 3 2 1
2. Activities were engaging and sufficient.	4 3 2 1
3. Materials and resources sufficiently supported knowledge building during this PD or coaching activity.	4 3 2 1
4. Materials and resources will sufficiently support implementation after this PD or coaching activity.	4 3 2 1
5. Pacing was appropriate to facilitate learning of the content.	4 3 2 1
6. Questions and problems were addressed quickly and efficiently.	4 3 2 1
7. This PD or coaching sufficiently prepared me to apply what I have learned to my practices.	4 3 2 1
8. The acquired knowledge from this PD or coaching will have an impact on students (e.g., performance, confidence, behavior, engagement).	4 3 2 1
9. Rate the overall quality of this PD or coaching including delivery, knowledge of skills acquired, and personal learning.	4 3 2 1

Scoring: 4 = Excellent 3 = Good 2 = Fair 1 = Poor

Comments (e.g., What went well? What were some challenges? What are some suggestions for further PD or coaching?):

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# MTSS-R Leadership Implementation Data

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## Implementation Data: MTSS-R School Leadership

Consider ways to collect both quantity and quality data related to MTSS-R School Teams:

1. Collect MTSS-R school-based teams' quantity and quality data from members of the teams
2. Have members keep logs, or minutes, of the meetings – (who, what, when, where, why, and how)

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## Collect MTSS-R Team Meeting Implementation Data – Meeting Minutes and Meeting Surveys

Date: \_\_\_\_\_

MTSS-R Team Meeting Implementation Survey

**Team and Meeting**

Team: \_\_\_\_\_

Meeting Type: \_\_\_\_\_

Meeting Date: \_\_\_\_\_

Meeting Time: \_\_\_\_\_

Meeting Location: \_\_\_\_\_

Meeting Facilitator: \_\_\_\_\_

Meeting Agenda: \_\_\_\_\_

Meeting Objectives: \_\_\_\_\_

Meeting Outcomes: \_\_\_\_\_

Meeting Evaluation: \_\_\_\_\_

Meeting Follow-up: \_\_\_\_\_

**Second Session Team Meeting Implementation Survey**

Meeting Type: \_\_\_\_\_

Meeting Date: \_\_\_\_\_

Meeting Time: \_\_\_\_\_

Meeting Location: \_\_\_\_\_

Meeting Facilitator: \_\_\_\_\_

Meeting Agenda: \_\_\_\_\_

Meeting Objectives: \_\_\_\_\_

Meeting Outcomes: \_\_\_\_\_

Meeting Evaluation: \_\_\_\_\_

Meeting Follow-up: \_\_\_\_\_

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## Collect PLC Team Meeting Implementation Data – Meeting Minutes and Meeting Survey Data

The image shows two sample forms. The first is a 'Meeting Minutes' form with fields for Date, Time, Location, Facilitator, and a table for Agenda Items. The second is a 'School-Based Team Meeting Implementation Survey' with a table for meeting frequency and a list of 10 items to be rated on a scale of 1 to 5.

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## Use the Assessment and Coordination Plan to Document Implementation Data Plans

Grade Level:	Screening	Progress Monitoring	Diagnostics	Lesson Mastery	Implementation
Measures					
Purpose					
Timeline					
What students will be assessed?					n/a
Who is the school expert?					
Who is collecting the data?					
When is the training/ coaching?					
Who is entering the data?					
Where is the data stored?					
What TEAM(s) are using the data?	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SDE/Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SDE/Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SDE/Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SDE/Eligibility	<input type="checkbox"/> MTSS-R Leadership <input type="checkbox"/> PLC <input type="checkbox"/> SDE/Eligibility

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## Element II: Data Use

Evaluate and Score

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### Evaluate and Score: Data Use

Element Items

Rating Scale

Phase Indicator

Discussion Notes

**SECTION 1: STUDENT READING DATA - GENERAL CONSIDERATIONS**

1. The system of measures, the purposes of each measure, and how the data from the measures are collected, organized, and used in decision-making are specified in our School MTSS-RT Plan.

2. All facilities receive information on our system of assessing student reading proficiency, which includes universal screening for needs to learn, formative and summative. The name of each measure, its purpose, and how the data are used to make decisions is described.

3. Sufficient measures are identified for the collection, organization, and use of student reading measures that are part of our School MTSS-RT Plan.

4. The purposes of student reading measures include the following:

- Screen students for reading difficulties.
- Determine if students are meeting key reading benchmarks for their grade.
- Monitor student progress toward reading goals.
- Identify specific problem areas where students are experiencing difficulty.
- Determine if students are learning lesson content being taught due to data in the classroom.

5. Universal reading goals are established at each grade level that define what students need to do to be on track for reading success.

6. All facilities receive information on our school's goals for student reading proficiency and on their ability performance in relation to those goals. Current information is included for facilities to learn more and act on them.

7. The percentage of students who are on track for reading success is measured at each grade level and is reported in MTSS-RT decision-making.

8. The percentage of students who are on track for reading success is reported in our school's ongoing formative evaluation of the overall quality of our School MTSS-RT approach.

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### Element II. Data Use

Work with your team and score each section of this Element.

- Section 1: Student Reading Data – General Considerations
- Section 2: Student Reading Data – Universal Screening Data
- Section 3: Student Reading Data – Progress Monitoring Data
- Section 4: Student Reading Data – Diagnostic Assessment Data
- Section 5: Student Reading Data – Lesson Mastery Data
- Section 6: Implementation Data – General Considerations
- Section 7: Implementation Data – Reading Instruction and Intervention
- Section 8: Implementation Data – PD and Coaching
- Section 9: Implementation Data – MTSS-RT School Leadership

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