National PBIS Leadership Forum | October 22 - 23, 2025 | Hilton Chicago







Using Data to Facilitate Implementation of Integrated Tiered Systems: Data for the Win!

Presenters:

Kathleen Lynne Lane, University of Kansas Jennifer Pierce, American Institutes for Research (NY) Mark Matthew Buckman, University of Kansas

- Topic: Data-based Decision Making
- Keywords: Fidelity, Implementation, Assessment



The National PBIS Leadership Forum is a technical assistance activity of the Center on PBIS

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Learning Objectives

By participating in this session, attendees will:

- Develop an understanding of a new tool for measuring implementation of integrated tiered systems
- 2. Describe how to assess faculty and staff's views of goals, procedures, and outcomes
- 3. Learn how to conduct systematic screenings to inform instruction, using these three sources of data in an integrated fashion to guide implementation efforts

Institute of Education Sciences, U.S. Department of Education R324N190002 University of Kansas R324N190007 America Institute for Research



Agenda

- 1. Introducing the Integrated MTSS Rubric
- 2. Collecting and Using Treatment Integrity and Social Validity Data: An Illustration in Ci3T Models
- 3. Collecting and Using Systematic Screening: An Illustration in Ci3T Models



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Introducing the Integrated MTSS Rubric

The research reported here was supported in part by the Institute of Education Sciences, U.S. Department of Education, through Grant Number R324N190007 -20 to American Institutes for Research. The opinions expressed are those of the authors and do not represent views of the Institute or the U.S. Department discussion.

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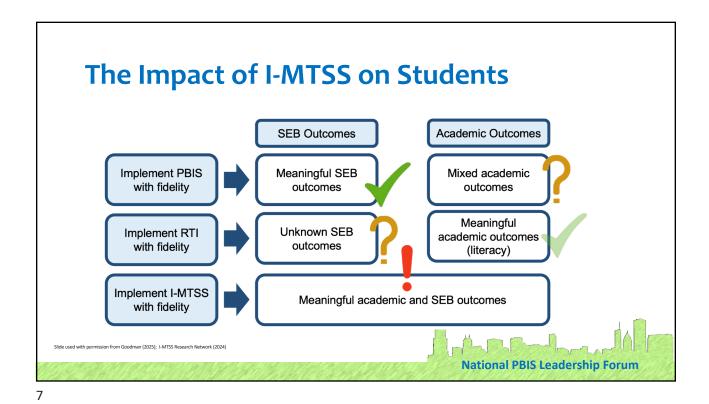
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Tiered Systems of Support

	Tiered System of Support	Student Improvement Area	Distinguishing Feature
>	Positive Behavior Intervention Support (PBIS), Schoolwide PBIS (Sugai & Horner, 2009)	Behavior/SEB outcomes	Behavior/SEB supports
/	Response to Intervention (RTI; Fuchs et al., 2003)	Academic outcomes	Academic supports
>	Multi-Tiered System of Support (MTSS; Sugai & Horner, 2009)	Academic and behavior/SEB outcomes	Academic and behavior/SEB supports
>	Integrated MTSS (I-MTSS ; McIntosh & Goodman, 2016)	Academic and behavior/SEB outcomes	Strategically combined academic and SEB supports

Adapted from Pierce et al., 2025 and the I-MTSS Research Network

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The Impact of I-MTSS on Staff

- Provides a feasible way to respond to rising academic and SEB needs
- · Lowers staff burden and burnout by streamlining teams and supports
- Improves staff trust, collaboration, satisfaction
- Promotes efficiency by de-siloing academic and behavioral supports

Pierce et al., (2025)



The Integrated MTSS Fidelity Rubric (IMFR)



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The IMFR

- A valid, reliable measure of I-MTSS at the elementary level.
- Users report the IMFR offers valuable information.
- The IMFR is **FREE** and includes a suite of materials.
- States, districts, and schools are using the IMFR in **grades K-12** to **assess** and **improve** implementation.
- The IMFR can be used in any school, from those just beginning to implement a tiered system to advanced implementers.

Gandhi, et al., (2025).

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Study Background

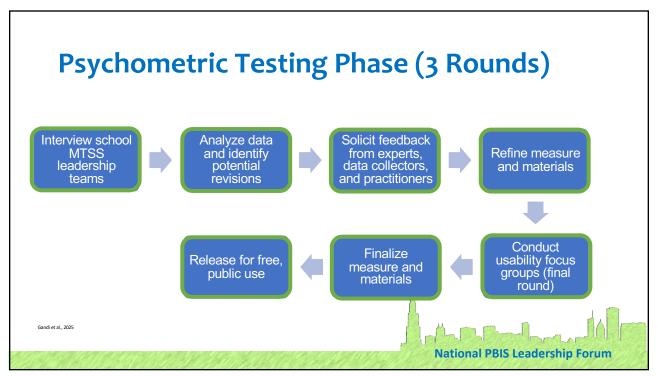
- The Need: Lack of valid, reliable measure specifically for assessing I-MTSS
- Conducted by AIR and University of Missouri from 2019-2025
- Part of a network of I-MTSS studies funded by the Institute of Education Sciences (IES)
- Sample included school MTSS teams at 65-87 schools in 13-20 districts located in nine states
- Examined validity, reliability, and costs

 Analytic methods included Many-faced Rasch Model, Exploratory and Confirmatory Factor Analysis, and Inter-rater Reliability

Ghandi et al.. (2025)

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Key Findings

- Construct validity as comprised of:
 - Content validity: Domains and items accurately reflect with I-MTSS is.
 - Substantive validity: The scale categories may need refinement in future testing.
 - **Structural validity:** Item-level ratings accurately reflect a school's I-MTSS implementation status.
 - **Generalizability:** Multiple raters produce similar ratings for schools, although some raters are more severe than others.

Ghandi et al., (2025



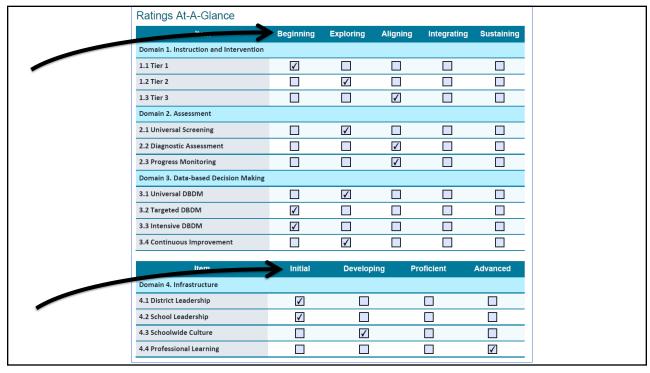
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Key Findings (Continued)

- Social validity:
 - The IMFR provided valuable insight into their school's I-MTSS implementation effort.
 - Team members would participate in the IMFR administration again.
 - IMFR ratings accurately reflected their school's I-MTSS implementation and that the ratings were easy to understand.
 - Participating in the IMFR administration was valuable because it helped them better understand their unique I-MTSS implementation strengths and areas for improvement.
 - Would recommend other schools use the tool.
 - The time required to participate in the process was difficult to manage.

Ghandi et al., (2025

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Accessing the IMFR Suite of Materials

- Scan the QR code to the AIR IMFR landing page.
- Scroll to the bottom of the webpage.
- Complete the online form. You will get an automated email. Check your junk folder if you do not get the email.
- Open the email, click on the link, and download the documents from Dropbox. You do not need a Dropbox account. The email also contains the link to the IMFR training modules, which are hosted on the Moodle platform.



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Using the IMFR With A School Team

- 1. Complete the IMFR training modules.
- 2. Conduct an interview with school MTSS leadership team using the IMFR Interview Protocol.
- 3. Use the IMFR Scoring Worksheet to generate I-MTSS ratings.
- 4. Provide the 14 item-level ratings to the school.

Gandhi et al., (2025)



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Using the IMFR to Drive School Improvement



Option 1: The Bright Spots Approach

Prioritize improving the "bright spots" that are not yet rated as *Integrating,* Sustaining, or Advanced.

- Review the Scoring Worksheet.
- Which criteria were marked "No" for Tier 3, Diagnostic Assessment, and Progress Monitoring?
- What would it take to turn each "No" to "Yes" for these items?
- Would improving these items likely have a positive impact on IMFR ratings, staff, and students?
- Would improving these items directly link to the school's overall goals for students?
- Is it feasible to improve these items?



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Ratings At-A-Glance					
Item	Beginning	Exploring	Aligning	Integrating	Sustaining
Domain 1. Instruction and Intervention					
1.1 Tier 1	✓				
1.2 Tier 2		✓			
1.3 Tier 3			✓		
Domain 2. Assessment					
2.1 Universal Screening		✓			
2.2 Diagnostic Assessment			\checkmark		
2.3 Progress Monitoring			✓		
Domain 3. Data-based Decision Making					
3.1 Universal DBDM		✓			
3.2 Targeted DBDM	✓				
3.3 Intensive DBDM	V				
3.4 Continuous Improvement		✓			
		_			
Item	Initial	Develop	ing Pr	oficient	Advanced
Domain 4. Infrastructure					
4.1 District Leadership	✓				
4.2 School Leadership	✓				
4.3 Schoolwide Culture		✓			
4.4 Professional Learning					√

Option 2: The Biggest Bang Approach

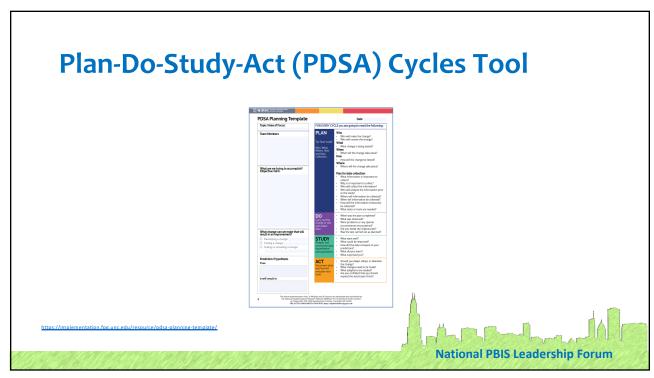
Prioritize improving the items that likely have the biggest positive impact on I-MTSS implementation, staff, and students.

- Review the Scoring Worksheet.
- Which items are easiest to improve yet would likely improve IMFR ratings and student outcomes yet reduce staff burden?
- Would improving these items directly link to the school's overall goals for students?



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Ratings At-A-Glance					
Item	Beginning	Exploring	Aligning	Integrating	Sustaining
Domain 1. Instruction and Intervention					
1.1 Tier 1	✓				
1.2 Tier 2		✓			
1.3 Tier 3			✓		
Domain 2. Assessment					
2.1 Universal Screening		✓			
2.2 Diagnostic Assessment			✓		
2.3 Progress Monitoring			√		
Domain 3. Data-based Decision Making					
3.1 Universal DBDM		✓			
3.2 Targeted DBDM	✓				
3.3 Intensive DBDM	✓				
3.4 Continuous Improvement		✓			
14	In this I			-51-14	Advanced
Item	Initial	Develop	ing Pr	oficient	Advanced
Domain 4. Infrastructure				_	
4.1 District Leadership	7				
4.2 School Leadership	✓				
4.3 Schoolwide Culture		✓			
4.4 Professional Learning					✓



Tracking IMFR Results

- Enter IMFR item-level ratings and scoring worksheet data for each school into Excel or another spreadsheet.
- Update twice annually or annually
- Analyze for trends:
 - · Items with consistently lowest and highest ratings
 - Schools/districts with lowest and highest ratings
- Conduct PDSA Cycles to support improvement efforts and to inform:
 - Resource allocation
 - Alignment and coherence across initiatives
 - Prioritization of I-MTSS implementation



Resources and Wrap-Up

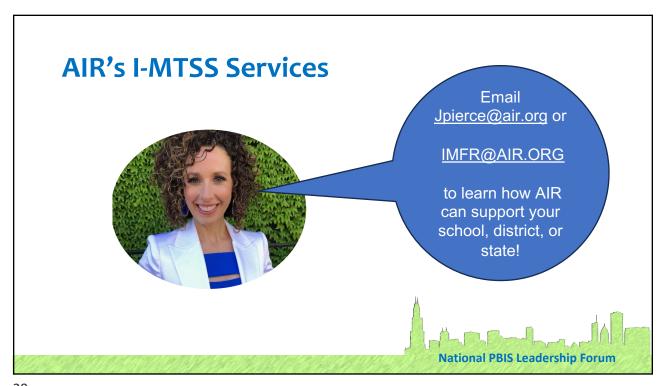


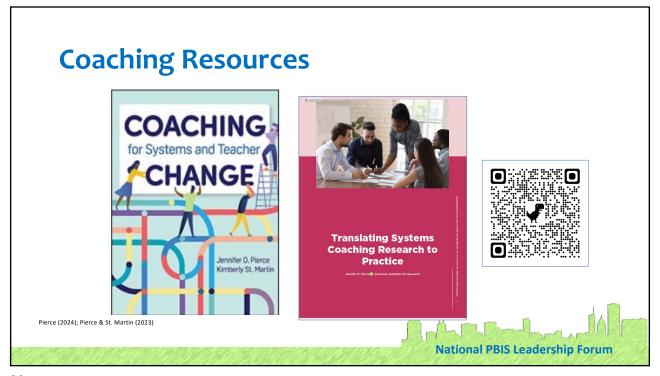
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I-MTSS Resources

- Special Issue on I-MTSS from Intervention and School Clinic: https://mtss.org/intervention-in-school-and-clinic-special-series/
- I-MTSS Network: https://mtss.org/
- PBIS Network: https://www.pbis.org/video/integrating-academic-social-emotional-behavioral-and-mental-health-supports-for-student-need
- AIR: https://mtss4success.org/resource/integrated-mtss-rubric







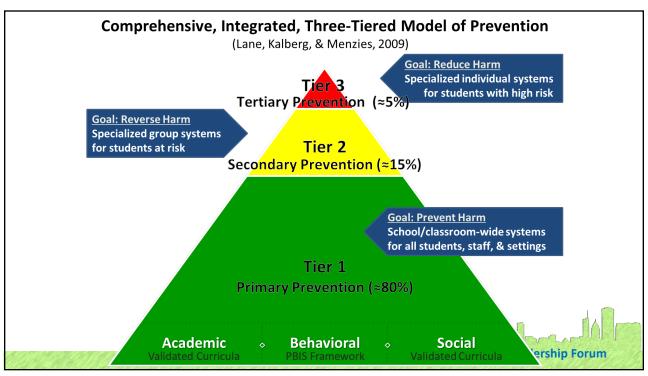
Collecting and Using Treatment Integrity and Social Validity Data

An Illustration in Ci3T Models

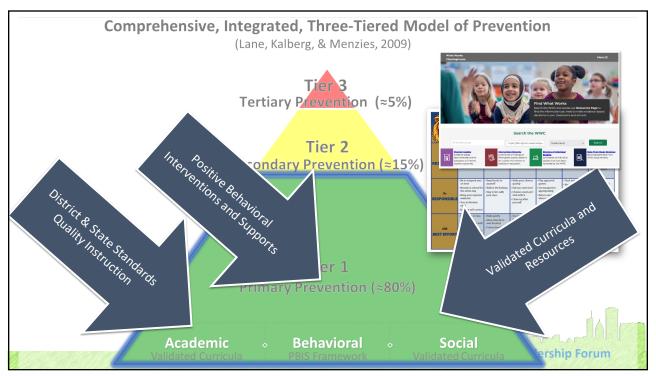
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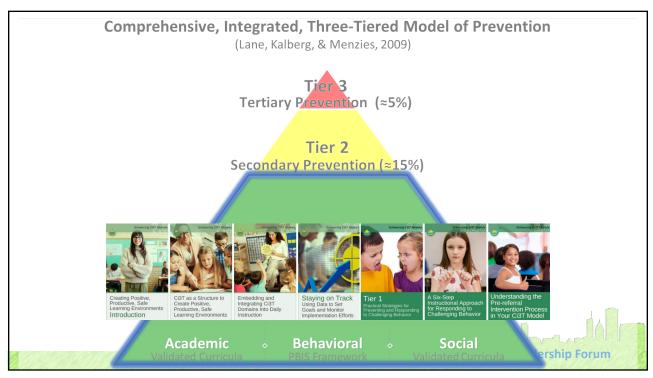
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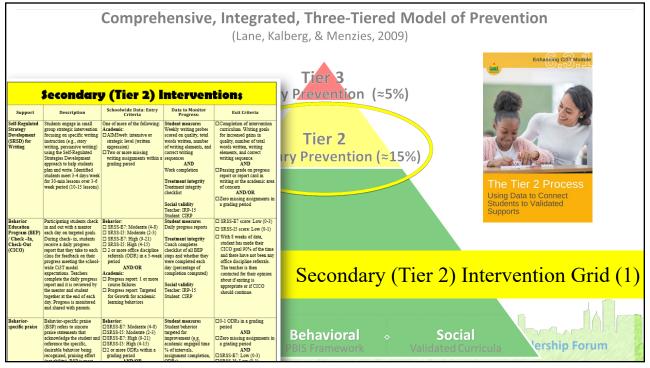
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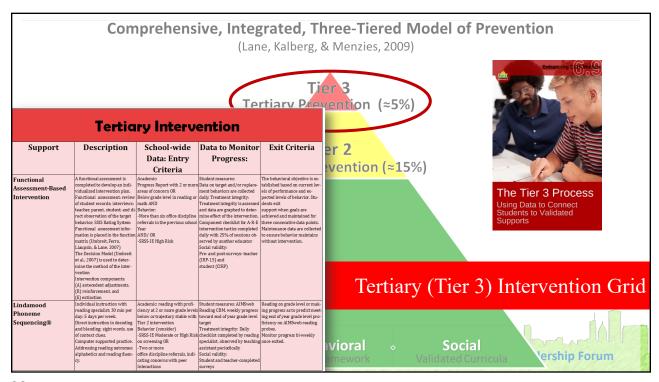


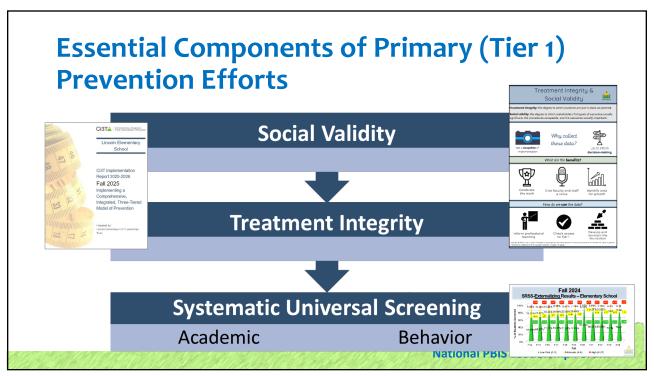












Social Validity

How do stakeholders view the plan?

Social validity refers to the level of:

- · Social significance of intervention goals
- · Social acceptability of intervention procedures
- Social importance of intervention outcomes

(Wolf, 1978)

Assessed using the Primary Intervention Rating Scale (PIRS)

Social Validity: PIRS Results

Year	Fall: n	Fall: % (<i>SD</i>)	Spring: <i>n</i>	Spring: % (SD)
2025-2026	32	85.39 (8.89)	TBD	TBD
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Treatment Integrity

Are we implementing our plan as intended?

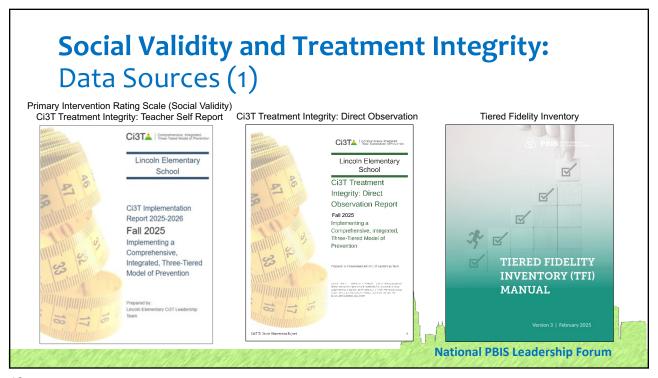
Treatment integrity can refer to:

- Adherence
- Dosage
- Quality

Assessed using:

- Ci3T Treatment Integrity: Teacher Self-Report
- Ci3T Treatment Integrity: Direct Observation
- · Tiered Fidelity Inventory (TFI)

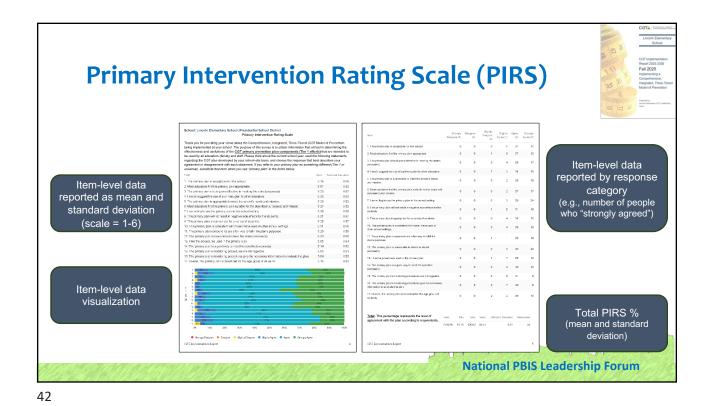
Ci3T Procedures	Fall 2025 Teacher Self- Report*	Educator Direct Observation*	Observer Direct Observation*
	n = 45	n = 6	n = 7
	% (SD)	% (SD)	% (SD)
Teaching	80.43%	70.72%	75.02%
	(10.86)	(13.81)	(17.05)
Reinforcing	80.83%	62.06%	34.99%
	(12.89)	(15.33)	(16.02)
Monitoring	75.49% (18.06)	-	-
Total	79.10%	67.66%	62.28%
	(11.87)	(14.03)	(14.58)





- Primary Intervention Rating Scale (Social Validity; PIRS)
- Ci3T Treatment Integrity: Teacher Self Report (Ci3T TI: TSR)
- Demographics (e.g., role)

Table of Contents Social Validity (SV)	ort	Pall 2025 Implementing a Comprehensing a Comprehensing Implementing a Model of Prevention Model of Prevention Implementing a Comprehension Implementing a Compreh
Primary Intervention Rating Scale (PIRS) Treatment Integrity (TI)	Table of Contents	- Commission of the Commission
Treatment Integrity (TI)	Social Validity (SV)A	
CI3T Treatment Integrity: Teacher Self-Report (CI3T TI: TSR) Demographics	Primary Intervention Rating Scale (PIRS)	
Demographics	Treatment Integrity (TI)B	
Report Sharing This special designed be share with your school faculty and staff. It can also be used to revise your school's plan lever summer as your direct your energy and facus on deerghaving your COT plan. St. TE TER DD SET	Ci3T Treatment Integrity: Teacher Self-Report (Ci3T TI: TSR)	
This report is designed to where with your school faculty and stall. It can also be used to revise your school's plan cover summer as you dired your energy and focus on sterrightening your COT plan. ST TER TO SET TO SE	Demographics	
OT in journment keye:	This report is designed to share with your school faculty and staff. It can also be used to revise your school's	
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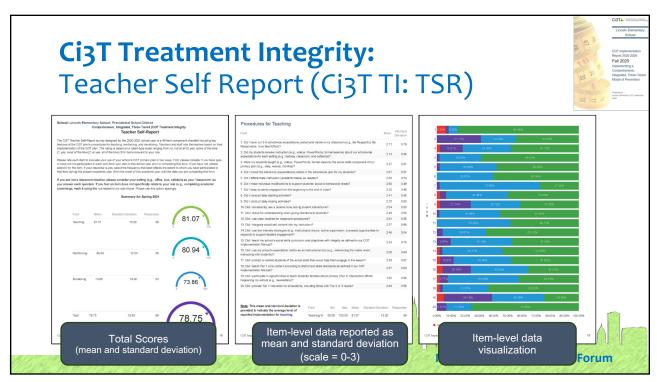


Primary Intervention Rating Scale (PIRS): Open Ended Items

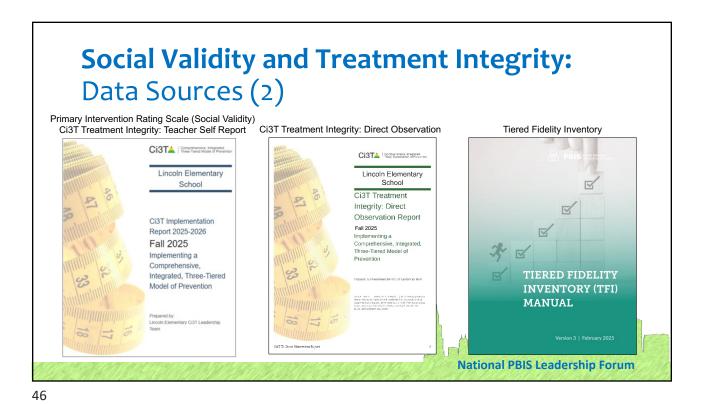


- · Read through comments
- · Highlight success (literally!)
- Look for themes for celebrations and focus areas
 - 1. What do you feel is most beneficial about this primary prevention plan's components (Tier 1 efforts)? What is the least beneficial part?
 - 2. Do you think that your and your students' participation in this Ci3T plan will cause your students' behavior, social, and/or learning problems to improve? Why or why not? Or if so, how?
 - 3. What would you change about this plan (components, design, implementation, etc.) to make it more student-friendly and educator-friendly?
 - 4. What other information would you like to contribute to this plan?

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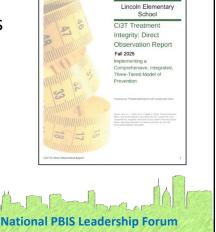




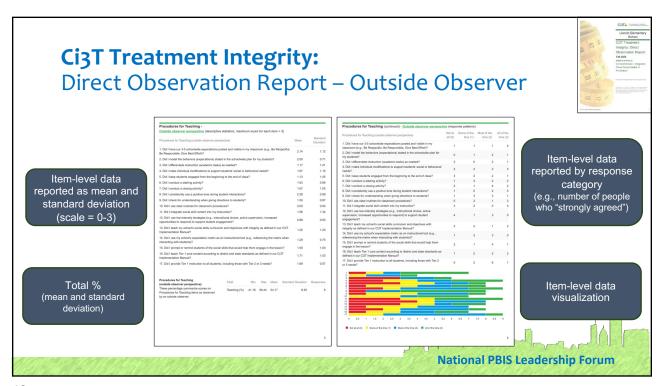


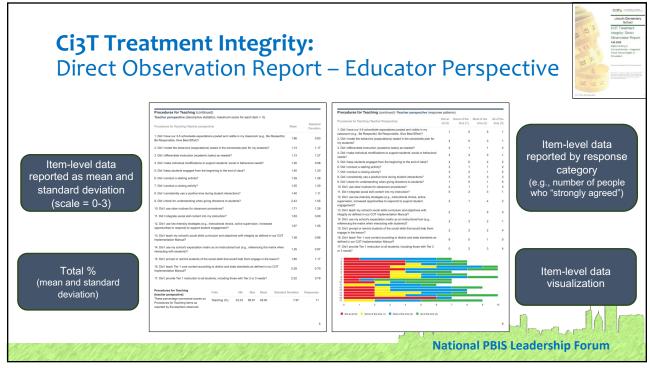
Ci3T Treatment Integrity:
Direct Observation Report (1)

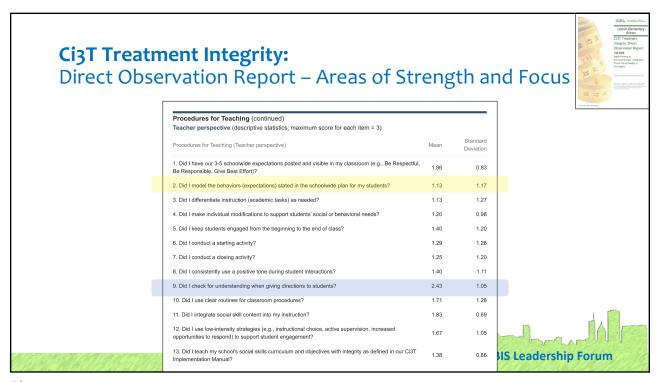
- Subset of Ci3T TI: TSR items
- · Stratified, random selection of educators
 - · Personnel who directly instruct students
- Observers trained to criterion
- 30-min observations
 - Educator perspective
 - · Observer perspective

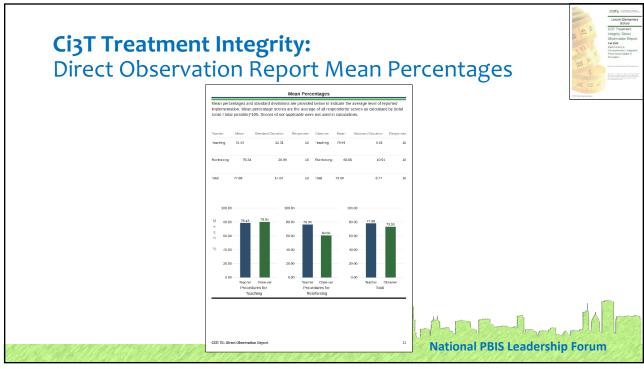


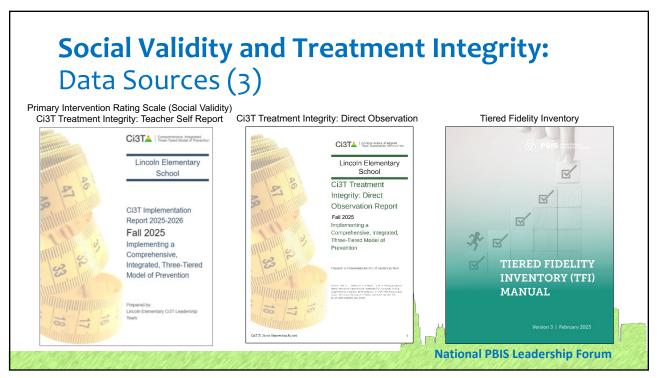
Ci3TA | Competerative, Integrated Three-Tiered Model of Prev

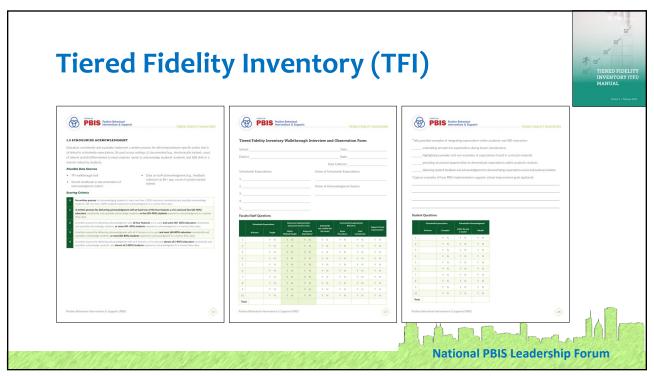


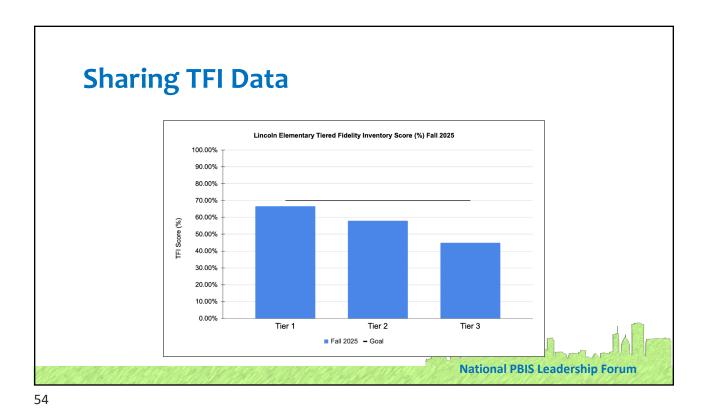








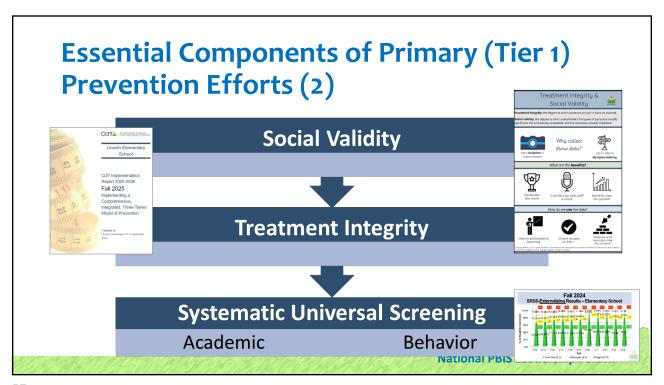




Collecting and Using Systematic Screening Data to Inform Instruction An Illustration in Ci3T Models



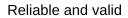
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What are features of systematic behavior screening?







Completed for ALL students



Conducted in Fall, Winter, and Spring

What are the benefits?



Data are used to shape instruction to meet students' multiple needs



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students Winter, and Spring

What are the benefits?



Data are used to shape instruction to meet students' multiple needs

How do we use behavior screening data?



Inform Tier 1
Instruction

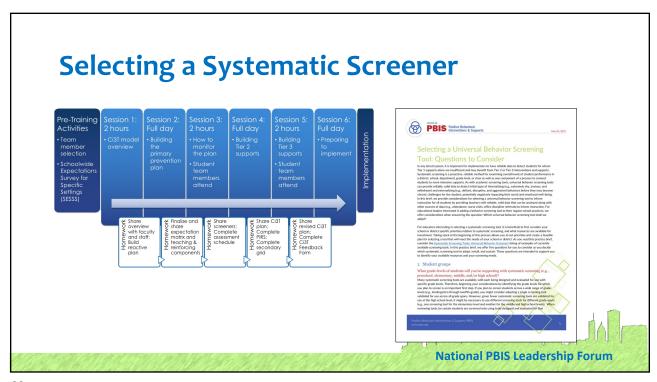


Identify opportunities for teacher-delivered, lowintensity strategies

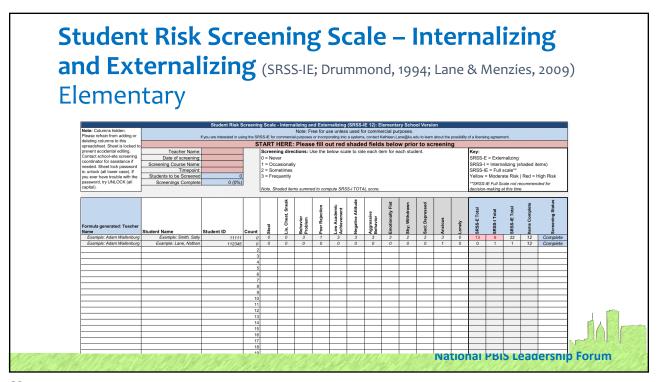


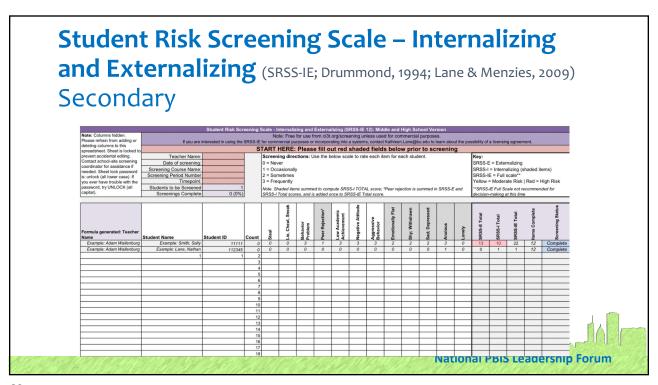
Connect students to Tier 2 and Tier 3 interventions











SRSS-IE: Cut Scores



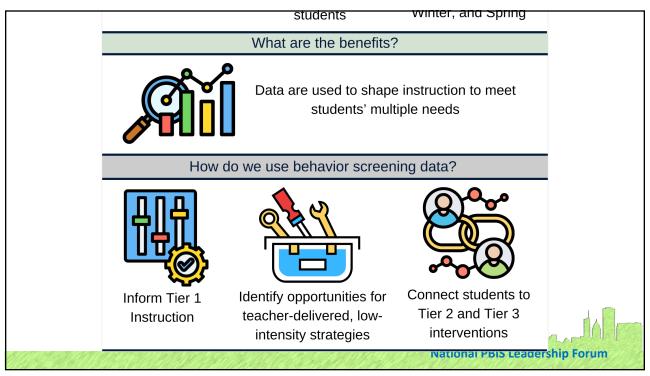
Elementary School								
SRSS-E7	SRSS-I5							
Items 1-7	Items 8-12							
0-3 = low risk 4-8 = moderate risk 9-21 = high risk	0-1 = low risk 2-3 = moderate risk 4-15 = high risk							

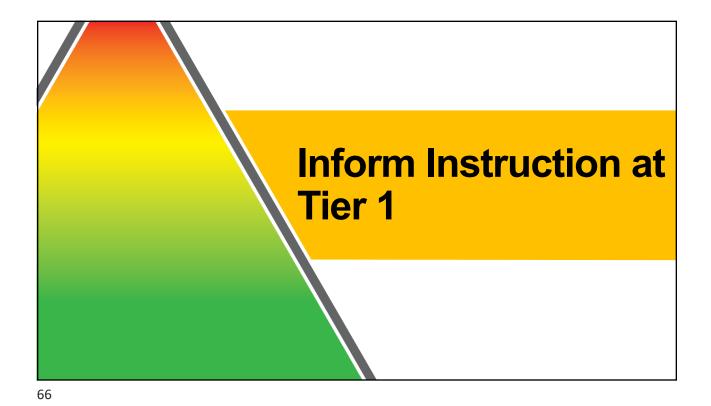
Middle and High School								
SRSS-E7	SRSS-I6							
Items 1-7	Items 4, 8-12							
0-3 = low risk 4-8 = moderate risk 9-21 = high risk	0-3 = low risk 4-5 = moderate risk 6-18 = high risk							

Elementary School Level:
Lane, K. L., Oakes, W. P., Swogger, E. D., Schatschneider, C., Menzies, H., M., & Sa scores to support data-informed decision making. *Behavioral Disorders*, 40, 159-170.

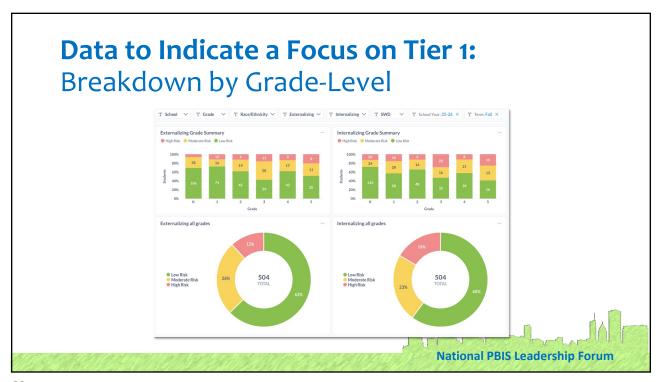
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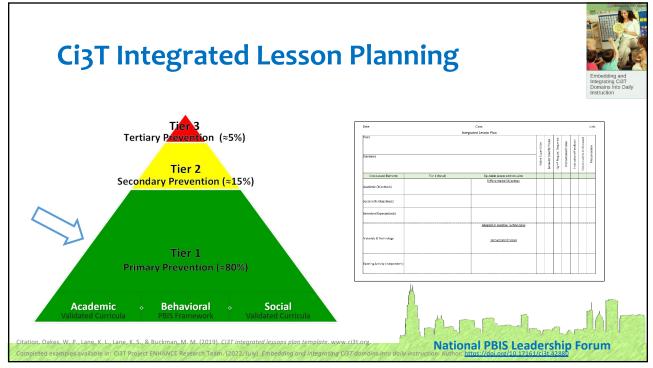
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Data to Indicate a Focus on Tier 1: **School Level** Social Skills Improvement System - Performance Screening Guide Spring 2012 - Total School ■ Adequate progress ■ Moderate Difficulties ■ Significant Difficulties 11.04 100% 90% Decent of Students 80% 70% 60% 50% 40% 30% 20% N = 233 47.55 20% 10% Reading Skills Math Skills Prosocial Motivation to n = 489 n = 490 n = 490 Subscales Lane, K. L., Oakes, W. P., & Magill, L. (2013). Primary prevention efforts: How do we implemented and monitor the Tier 11 component of 606 Leadership Forum Comprehensive, Integrated, Three-Tiered (Ci3T) Model?, Preventing School Failure, 58(1), 143-158.





Date:		Inte	Class: egrated Lesson Plan								Unit:
Topic		IIIC	grateu Lesson Flan						Ι	П Т	
					5	raise	nence	ice.	back	puods	
					l Active Supervision	Behavior Specific Praise	High-P Request Sequence	Instructional Choice	Instructional Feedback	Opportunities to Respond	Precorrection
Standards					- Sup	or Spe	edne	rction	tiona	nities	ecorr
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Core Lesson Elements	Tie	er 1 (for all)		ess and Inclusion							
			Differentiat	ed Objectives							
Academic Objective(s)											
Social Skills Objective(s)											
Behavioral Expectation(s)											
			Teacher Reflection		~~~~	~~~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		00000	00000	0000
	T		=not at all, 1=limited, 2=par								
	Active Supervision (AS) Behavior Specific High-P Request Instructional Choice (IC) Instructional Feedbar Praise (BSP) Sequence (HPRS) (IF)			(IF)		Opportunities to Respond (OTR)			Precorrection (PC)		
0 1 2 3	0 1 2 3	0 1 2 3	0 1 2 3	0 1 2 3		0 1	2 3			1 2 3	3
Met individual student pla What went well?	n for academic, social skill	, and behavioral supports.					C	1 2	2 3		
What did not go as expects	ed?										
What would I change in the											
I what would I change in the	e ruturer										

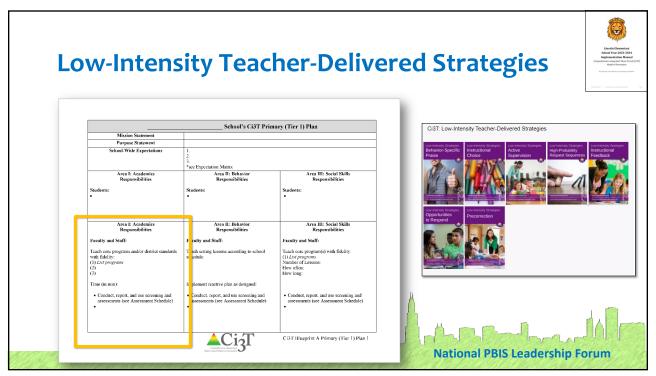


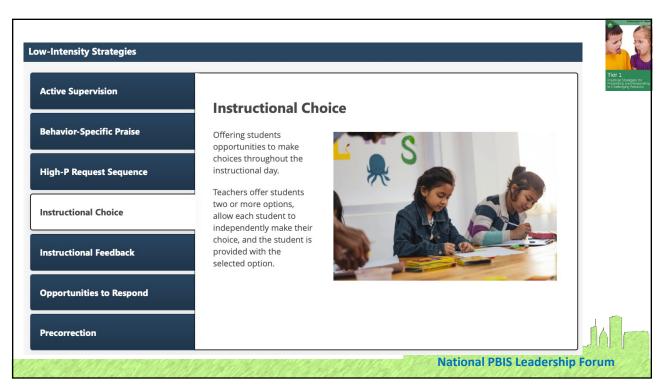
Data to Indicate a Focus on Low-Intensity Teacher-Delivered Strategies

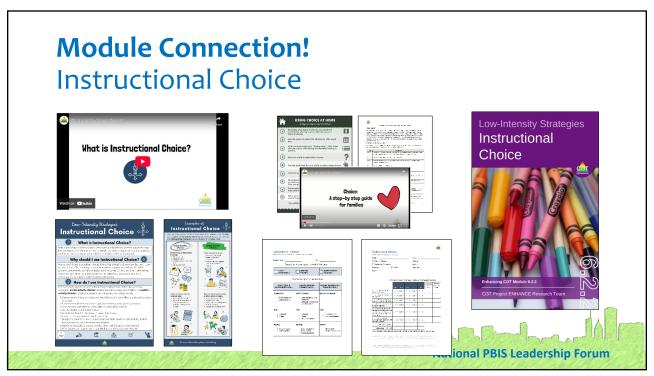
Classroom-Level Summary Data								
	SRSS-Externalizing (SRSS-E7)	SRSS-Internalizing (SRSS-I5)						
High Risk	10%	13%						
Moderate Risk	19%	26%						
Low Risk	68%	61%						

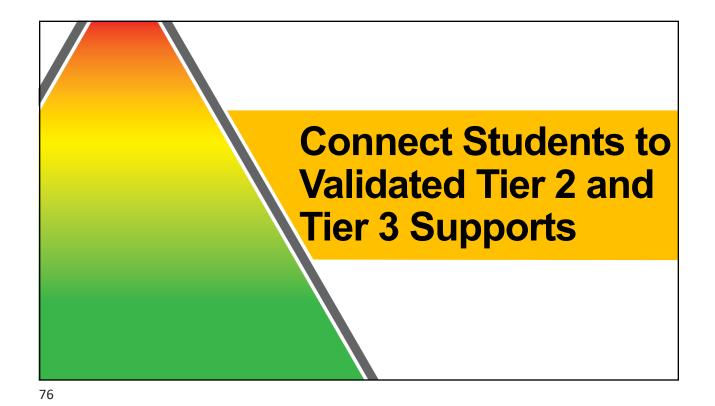
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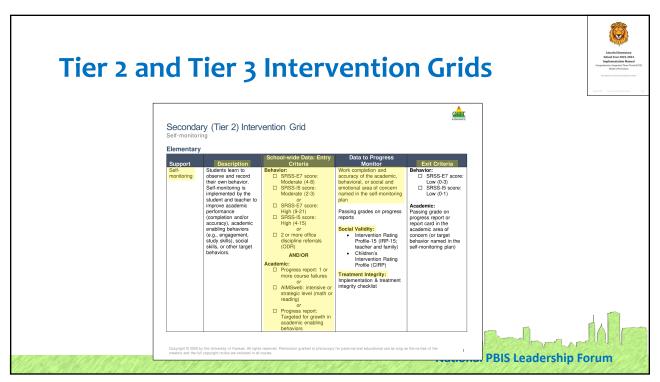


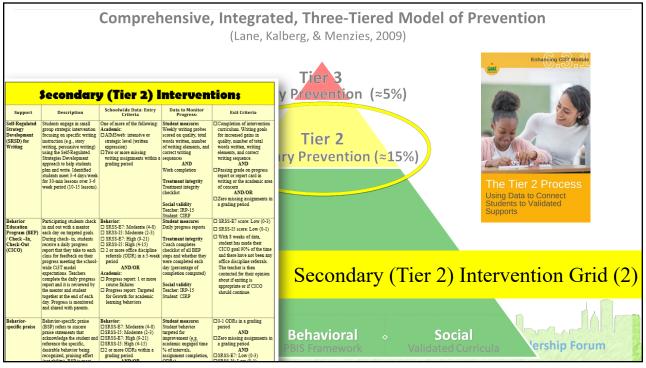




Getting Started with Data-Informed Decision Making

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