

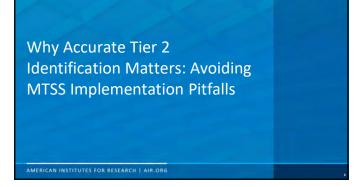
What do we know about Tier 2 Identification?

- Typically follows the administration of a schoolwide, brief, valid and reliable screener of the target outcome(s).
- Identification as an at-risk student does not necessarily mean the student will be identified for Tier 2.
- The percentage of students identified for Tier 2 depends on the capacity of the school's Tier 2 system.



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Over Vs. Under Identific	ation
Public Health	Education
 Overidentification 	 Overidentification
Expense of additional testing	Expense of additional testing Expense of early intervention
Unnecessary worry	 Expense of early intervention services
UnderidentificationMiss serious health problem	 Underidentification
iviiss serious fleatiti problem	 Miss opportunity for prevention/early intervention
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Three Major Pitfalls to MTS	SS Design and Implementation
 Poor quality Tier 1 programmi 	ing
 Flooding Tier 2 with false posi 	tives
 Failing to meaningfully disting 	guish the intensity of Tier 2 from intensive
intervention	
These pitfalls create ineffi	iciencies and decrease quality of
S	services.
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)	
Pitfall 1: Poor Quality Tier	1
Costly error because poor quality Tier	r 1 increases the number of students who will

require expensive Tier 2 intervention.

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less qualified tutors, less support for tutors).

 When schools need to provide a high percentage of students with Tier 2, the quality of what can be provided in Tier 2 decreases (larger group size, shorter duration sessions,

Indicator: Less than 75-80% of students are identified as at or above grade level expectation

Solution: Robust Tier 1 and Tier I Classwide Supports	
Peer Assisted Learning Strategies, <u>www.peerassistedlearningstrategies.net</u>	
High Leverage Practices	
Differentiation and Universal Design for Learning (UDL)	
Vertical and horizontal alignment of curriculum	
IES Practice Guides	
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Pitfall 2: Flooding Tier 2 with False Positives	
Results from poor screening system or failure to use risk verification procedures.	
- ALL 'yellow' kids get Tier 2	
Too much deference to screening results	
 Poor predictiveness of cut points or inappropriate for population 	
Universal screening cut scores are designed to identify false positives (FPs) to avoid	
missing any truly at-risk children.	
Indicator: More than 20% of population receiving Tier 2 interventions	
	-
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Dubling the Dubling The Control of the Control	
Problems with Providing Tier 2 to False Positives (FP)	
Over-identification of FP students for Tier 2 is a costly error.	
• It dilutes the effectiveness of intervention for the students who do require	

Tier 2.

on more challenging material.

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• It negatively affects FP students because they don't require Tier 2's foundational level remediation and should instead need instructional time

Solution: Robust Risk Verification

- Use at least **two other data sources to verify decisions** about whether a student is or is not at risk.
- $-\,$ Assess only students who fail or almost fail initial screen
- Consider data on classroom performance, performance on state assessments, diagnostic assessment data, short-term progress monitoring
- Limit Tier 2 interventions to no more than 15-20% of population (based on available resources)

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Why is risk verification important?

- The Stage 1 screen identified 72 false positives (students identified to enter Tier 2 who, according to year-end performance, did fine without Tier 2).
- Adding the additional data to the decision making decreased the number of false positives to 29.
- Administering additional assessments to the 72 students who failed the universal screen costs the school \$5,400 (72 students X .75hrs = 54 hrs X \$100 = \$5,400)
- But not tutoring 43 FPs saves the school \$23,800 (~14 triads X 34 hrs/triad = 238 hrs X 100/hr = 47,600)
- Savings: \$47,600 \$5,400 = \$42,200

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Pitfall 3: Failing to meaningfully distinguish between Tier 2 and 3

- Tier 3 students fail to receive required the clinical approach afforded by specialized teachers engaged in data-based individualization.
- Costly error because these students fall farther and farther behind if permitted to languish in Tier 2+, when they have already demonstrated inadequate response to validated (standard, non-individualized) programs.

Indicator: More than 7% of population receiving Tier 3 interventions, paras/volunteers delivering Tier 3, or a 'Tier 3 intervention list'

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Pitfall 3 Solutions

- Reserving Tier 3 for students who prove unresponsive to Tier 2 delivered with fidelity (with quality Tier 1 and Tier 2, the expected rate in intensive intervention is 5-7% of the school population).
- Relying on the validated individualization process known as data-based individualization (DBI) to structure intensive intervention.
 - Provides indicator if students NEED specialized instruction

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How can you avoid these pitfalls?

- If more than 20% of students are identified as at-risk by your universal screening process, conduct a root cause analysis of Tier 1 and identify and implement approaches to improve Tier 1 instruction and support.
- Prior to identifying students for Tier 2 supports, determine the number of students your Tier 2 system can effectively support.
- Use validated approaches to identify students for participation in Tier 2 intervention.

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Assessing Tier 2 System Capacity

Why do we need to understand our Tier 2 System Capacity?

An overwhelmed Tier 2 system—one that attempts to serve more students than it has the capacity to serve—can result in limited or poor learning outcomes and ineffective use of staffing and resources.



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What does it mean to 'understand' the Tier 2 System Capacity? Tertiary Secondary 15% Secondary Primary School 1: Resources available for 20% School 2: Resources available for 15%

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How do we determine Tier 2 capacity?

Total Number of Students our System Can Support (last column from Step 1)	Total Number of Students in Target Grade(s)	Percentage of Students our Tier 2 Can Realistically Support

How do we determine Tier 2 capacity? Example

Total Number of Students our System Can Support	Total Number of Students in Target Grade(s)	Percentage of Students our Tier 2 Can Realistically Support
42	213	20%

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Considerations

- Which grades or schools need more 'intervention' opportunities? Is our capacity ensuring equitable access to intervention?
- Is our capacity sustainable? Is it realistic?
- Does our system address all areas of need?
- What do we do if more students need intervention than our Tier 2 can effectively support?

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Identifying and Verifying Risk Status

How do you identify students as at-risk?

- Written decision rules about risk identification can ensure teams make consistent and equitable decisions efficiently.
- Staff can articulate the risk identification and verification processes.
- Accurate risk identification depends on the use of valid and reliable screening tools and validated risk verification procedures.

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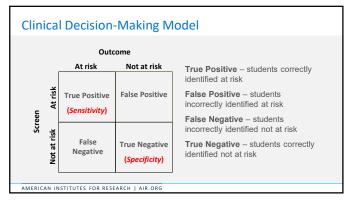
Identifying Students as At Risk

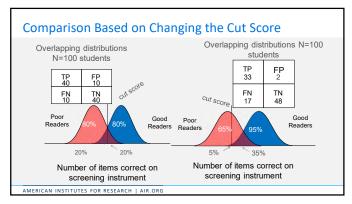
- Cut scores for universal screening tools are often set by publishers to overidentify students as at risk.
- MTSS success depends on accurate identification of the students identified as at risk.
- Perfect screening would result in 100% accurate identification of "True Positives" (those who need additional support) and "True Negatives" (those who do not need additional support), but there is no perfect screening tool.

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Defining Risk: Categorical Vs. Continuous True Score on a measure of reading/math AMERICAN INSTITUTES FOR RESEARCH | AIR.ORG



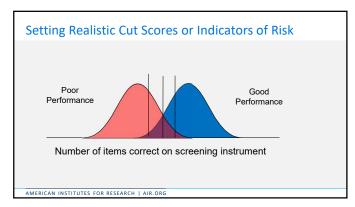


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Is it a good screening tool?

- 1. Sensitivity is the probability of correctly identifying a problem (i.e., the proportion of **true positives** that the screener correctly identifies).
- Specificity is the probability of correctly identifying that there is not a problem (i.e., the proportion of true negatives that the screener correctly identifies).

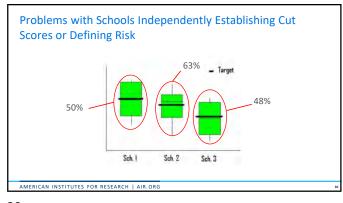
NCII screening tools charts rate a screening tool highest when it has a sensitivity rate of 70% or higher and a specificity rate of at least 80%

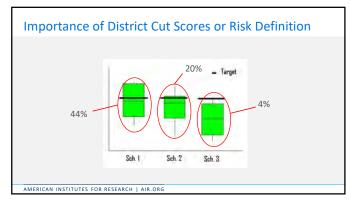


Problems with Schools Independently Establishing Cut Scores School Percent At or Above School Cut Score School 1 50% School 2 63% School 3 48%

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Developing Risk Identification and Verification Procedures Teaming Definition of Risk Primary Data Source Verification Making Risk identification and verification typically occurs following fall or winter screening. For incoming 9th graders, it may begin spring of 8th grade.

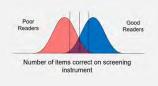
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What is the definition of a student at-risk for poor learning outcomes? Is there consensus among staff? Can staff articulate the definition? Using parent friendly language, define a student a risk. What is the target outcome?

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Primary Data Source

- What is the primary data source for risk identification?
- Is there evidence of the tool's <u>classification accuracy</u>, or ability to accurately identify students at risk and not at risk?



What is your target outcome? What is your primary data source for risk identification?

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Risk Verification

- What secondary and additional data sources will be used to verify risk status?
- What is the validity of these data sources?

What are your secondary and additional data sources for risk verification for the target outcome?

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Decision Making

- How will risk status be determined using the primary, secondary, and additional data sources?
- What happens when more than 20% of students are identified and confirmed as atrisk?
- How will these data be used to improve decision making processes overtime?



Sample Tool For Documentation Risk Verification

Student	Primary Data: Valid Screening Tool	Secondary: Ex. Common class assessment	Additional Data: Ex. State Assessment	Risk-Status Determination
Ex. Conner	Yes	No	Yes	At-risk
Ex. Jenny	No	Yes	No	Not At-Risk
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Identify Primary Indicator of Risk Status

- 1. Requires valid and reliable screening tool
- 2. Uses tools with high classification accuracy

Examples of Common Tools

a. AIMSweb, iReady, MAP, iSIP, SRSS, attendance, early warning system

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Step 2: Identify Valid Secondary Screener

- Progress Monitoring
 - 4-6 progress monitoring data points
- Most effective in K-2 Settings
- Additional Valid and Reliable Screener
 - $-\,$ AIMSweb, MAP, iSIP, SRSS, attendance
 - Consider costs and implementation time
- Common Classroom Assessment
 - Core Assessments/Grades

Concerns about validity and reliability



Primary Data Sour	ce: Identifying	Initial Risk	
	6 fame Carrery Bren Arrara	Performance Summary Perfortial Instructional Artison	
Conduct scheduled	6/34 Se 30 6/34 Jens 30 6/75 Jens 20	Entitled Contract Princip Protester Employed Common Princip Protession	
screening with	2025) 20 201 2005 200 201	Continued Continue Princip Provention Continue Princip Provention Continue Princip Principal Continue Princip Principal	
fidelity	24507 Jane (45) 05-235 America (8)	Delities Deline Francy Property	
nacity	23257 June 16 25001 Seed 16	Emblished Common Primary Transmiss. Emblished Common Primary Presenting	
 Identify students 	2011 June 30 1315 June 73 62345 June 73	Estimat Contest Procyfronder Contest Contest Procyfronder Liebland Contest Procyfronder	Detentially At
considered at-risk	6) 584 56m 74 69 544 55m 74	Englished Contrast Prince Prince	Potentially At- Risk
	DETAIL Section 23	Emilian Colon Pilos Presides Emilian 70	1.11.21.
 Identify students 	18562 Isrkson 69 09876 Jessie 69	Emerging Assess and Consider Secondary Prevention Emerging Assess and Consider Secondary Prevention	
consider	85531 Jillion 60 92384 Avanita 57	Emerging Assess and Consider Secondary Presention Emerging Assess and Consider Secondary Presention	- At-Risk
potentially at-risk	12074 Jackyn SS 13551 Senet SS	Emerging Assess and Consider Secondary Prevention Emerging Assess and Consider Secondary Prevention Deficients 45.	At-RISK
	2000 See 0.	Definition - Assessment Section Research Section Section Company of the Company o	
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	Initial Screener	Secondary Screener	Decision
Bill	Potentially At-Risk	Not At-Risk	
Bob	Potentially At-Risk	At-Risk	
James	Potentially At-Risk	Not At-Risk	
Sara	At-Risk	Not at-Risk	
Tina	At-Risk	At-Risk	
Lena	At-Risk	Not At Risk	
Sandy	At-Risk	At-Risk	
Frank	At-Risk	At-Risk	
Vivian	At-Risk	At-Risk	
Monty	At-Risk	At-Risk	
Ken	At-Risk	At-Risk	
Brian	At-Risk	At-Risk	

	Initial Screener	SECONDARY	Decision
Bill	Potentially At-Risk	Not At-Risk	Tier I+
Bob	Potentially At-Risk	At-Risk	?
James	Potentially At-Risk	Not At-Risk	Tier I +
Sara	At-Risk	Not at-Risk	?
Tina	At-Risk	At-Risk	Intervention
Lena	At-Risk	Not At Risk	?
Sandy	At-Risk	At-Risk	Intervention
Frank	At-Risk	At-Risk	Intervention
Vivian	At-Risk	At-Risk	Intervention
Monty	At-Risk	At-Risk	Intervention
Ken	At-Risk	At-Risk	Intervention
Brian	At-Risk	At-Risk	Intervention

Use Additional	Data	Sources	for	Risk	Verification	for Ve	ery F	ew
Students								

- 1. Not necessary when using progress monitoring for secondary screening or risk verification
- 2. Data should be readily accessible and generally valid and reliable
- 3. Consider progress monitoring or classroom assessment

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	Initial Screener	SECONDARY	ADDITIONAL DATA Source	Decision
Bill	Potentially At-Risk	Not At-Risk	-	Tier I+
Bob	Potentially At-Risk	At-Risk	At-Risk	?
James	Potentially At-Risk	Not At-Risk	-	Tier I +
Sara	At-Risk	Not at-Risk	At-Risk	?
Tina	At-Risk	At-Risk	-	Intervention
Lena	At-Risk	Not At Risk	At-Risk	?
Sandy	At-Risk	At-Risk	-	Intervention
Frank	At-Risk	At-Risk	-	Intervention
Vivian	At-Risk	At-Risk	-	Intervention
Monty	At-Risk	At-Risk	-	Intervention
Ken	At-Risk	At-Risk	-	Intervention
Brian	At-Risk	At-Risk	-	Intervention

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	Initial Screener	SECONDARY	ADDITIONAL DATA Source	Decision
Bill	Potentially At-Risk	Not At-Risk	-	Tier I+
Bob	Potentially At-Risk	At-Risk	At-Risk	Intervention
James	Potentially At-Risk	Not At-Risk	-	Tier I +
Sara	At-Risk	Not at-Risk	At-Risk	Intervention
Tina	At-Risk	At-Risk	-	Intervention
Lena	At-Risk	Not At Risk	At-Risk	Intervention
Sandy	At-Risk	At-Risk	-	Intervention
Frank	At-Risk	At-Risk	-	Intervention
Vivian	At-Risk	At-Risk	-	Intervention
Monty	At-Risk	At-Risk	-	Intervention
Ken	At-Risk	At-Risk	-	Intervention
Brian	At-Risk	At-Risk	-	Intervention



It is important to remember that being identified as an at-risk student does not mean the student needs a Tier 2 intervention.

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What will you do when your capacity is less than your number of at-risk students?

Considerations

- Progress monitor all students identified as at-risk.
- Provide additional supports in Tier 1, such as small group instruction.
- Focus on improving Tier 1 capacity to support more students.

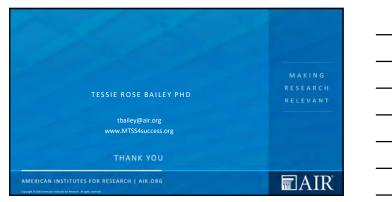
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Considerations for Ongoing Improvement

- Does the current Tier 2 system continue to have the capacity to support the number of identified students? Are educators able to implement Tier 2 interventions and supports with fidelity?
- 2. Does progress monitoring data suggest that some identified students in Tier 2 intervention can move to less intensive supports?
- 3. Does progress monitoring data suggest that some students not initially identified for Tier 2 now need Tier 2 intervention?
- 4. Does the data suggest that the Tier 2 identification process was effective and efficient?
- 5. How can the efficiency and effectiveness of the risk verification and Tier 2 identification be improved?

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Multi-Tiered System of Supports

at the American Institutes for Research® ■



Tier 2 Identification Procedures

Identification for Tier 2 intervention and supports is an important decision teams will make as part of implementation of a multi-tiered system of supports (MTSS). Tier 2 identification typically follows the administration of a schoolwide, brief, valid and reliable screener of the target outcome(s). The percentage of students identified for Tier 2 depends on the capacity of the school's Tier 2 system. Teams will use validated procedures implemented with fidelity to identify students for Tier 2. To avoid overidentification of students for Tier 2, consider the following.

- If more than 20% of students are identified as at-risk by your universal screening process, conduct a root cause analysis of Tier 1 and identify and implement approaches to improve Tier 1 instruction and support.
- Prior to identifying students for Tier 2 supports, determine the number of students your
 Tier 2 system can effectively support.
- Use validated approaches to identify students for participation in Tier 2 intervention.

This resource is designed to support teams in addressing the last two considerations.

Step 1: Assess Tier 2 Intervention Capacity

Using a review of resources and infrastructure, determine the number of students your delivery of Tier 2 interventions with fidelity can effectively support. To provide a more accurate assessment, assume at least 5% of students will also need more intensive intervention (Tier 3). When determining capacity, consider the following:

- 1. *Intervention*: What evidence-based interventions do we have at the target grade levels?
- 2. Intervention Implementation Requirements: What is the recommended frequency, duration, and grouping size necessary for fidelity of implementation and desired effects?
- 3. Schedule: What does our schedule realistically allow for delivery of each intervention?
- 4. *Staffing*: What staff are trained to deliver the intervention with fidelity? Are these staff available to provide high-quality instruction at the recommended intensity and duration?

A sample tool and approach for evaluating the requirements and capacity of each grade level intervention is provided below. Teams should only focus on their capacity to implement the

interventions with fidelity within the school's current context. Remember, it is important to understand your system's current capacity before making changes to scheduling or intervention selection.

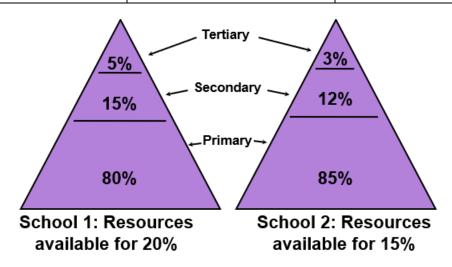
Grade Level	Intervention and Content	Implementation Requirements (frequency, duration, grouping size)	Staff Available to Deliver with Fidelity	Available Intervention Blocks	# of students our system can support with fidelity
Ex. 4 th	Fraction Face Off Math: fractions	Group Size: 2-3 30 min, 3x wk for 12 weeks	2 trained paraprofessionals • Sari • Mike	1-1:30 and 1:30-2pm M, T, Th	12

Step 2: Assess Tier 2 System Capacity

Understanding the capacity of the Tier 2 system allows teams to make more appropriate identification decisions for Tier 2 participation. An overwhelmed Tier 2 system—one that attempts to serve more students than it has the capacity to serve—can result in limited or poor learning outcomes and ineffective use of staffing and resources. Using the data above, calculate

the percentage or raw number of students your Tier 2 system can support when all interventions are delivered with fidelity.

Total Number of Students	Total Number of Students in	Percentage of Students our Tier 2 Can Realistically
our System Can Support (last column from Step 1)	Target Grade(s)	Support



The image above demonstrates the percentage of students each tier has the capacity to **support** in two different schools. Understanding the Tier 2 system capacity can assist teams in making decisions about how many students can be effectively supported.

Step 3: Identify and Verify Risk Status

Once teams understand their capacity, the next step is to identify which students are at-risk. For accurate decision making, teams should have a written, agreed upon definition of an at-risk student. Accurate risk identification depends on the use of valid and reliable screening tools and validated risk verification procedures.

Written decision rules about risk identification can ensure teams make consistent and equitable decisions efficiently. These rules should be succinctly written and easily accessible to team members. When developing procedures, consider the following:

Teaming: What staff will participate in Tier 2 teaming and identification decision making? When and how often will the team meet? What are the team member roles (e.g., facilitator, timer, recorder)?

- Definition of Risk: What is the definition of a student at-risk for poor learning outcomes?
- Primary Data Source: What is the primary data source for risk identification? Is there evidence of the tool's <u>classification accuracy</u>, or ability to accurately identify students at risk and not at risk?
- *Risk Verification*: What secondary and additional data sources will be used to verify risk status? What is the validity of these data sources?
- Decision Making: How will risk status be determined using the primary, secondary, and additional data sources? What happens when more than 20% of students are identified and confirmed as at-risk? How will these data be used to improve decision making processes overtime?

The following is a sample tool teams can use to support risk-identification and verification using primary, secondary, and additional data sources.

Student	Primary Data: Valid Screening Tool	Secondary: Ex. Common class assessment	Additional Data: Ex. State Assessment	Risk-Status Determination
Ex. Conner	Yes	No	Yes	At-risk
Ex. Jenny	No	Yes	No	Not At-Risk

Step 4: Select Students for Tier 2 Intervention

Once students' risk-status has been confirmed, the team's focus shifts to how to support identified students. It is important to remember that being identified as an at-risk student does not mean the student needs a Tier 2 intervention. Based on student data, teams may choose instead to provide additional Tier 1 supports with progress monitoring. The school's capacity to effectively support students in Tier 2, determined in Step 2, should also be considered when selecting students for Tier 2 intervention. For example, if the school identifies 32 fourth grade students as at-risk but can only effectively support 23 fourth grade students in intervention, the team must decide how best to support the remaining nine students. Overwhelming the Tier 2 system can have poor outcomes for all students.

Teams need clear decision-making procedures about which students will receive Tier 2 interventions versus additional Tier 1 supports. Regardless of the level of support provided, all students identified as at-risk (Step 3) should participate in frequent progress monitoring. Teams

may use the tool below to make Tier 2 identifications decisions. Remember, students with the greatest need should have access to Tier 2.

At-Risk Student	Tier 2 Supports	Tier 1 Additional Supports	
Identified Need: Fractions (12 intervention Slots)			
Ex. Conner	X		
Ex. Jane		X	

Step 5: Ongoing Improvement of Tier 2 Identification Processes

Once students have been identified for Tier 2 intervention or additional Tier 1 supports, the team's focus shift to ensuring implementation of the selected interventions for the identified students. Throughout Tier 2 implementation, the team will need to consider the following.

- Does the current Tier 2 system continue to have the capacity to support the number of identified students? Are educators able to implement Tier 2 interventions and supports with fidelity?
- Does progress monitoring data suggest that some identified students in Tier 2 intervention can move to less intensive supports?
- Does progress monitoring data suggest that some students not initially identified for Tier 2 now need Tier 2 intervention?
- Does the data suggest that the Tier 2 identification process was effective and efficient?
- How can the efficiency and effectiveness of the risk verification and Tier 2 identification be improved?

