

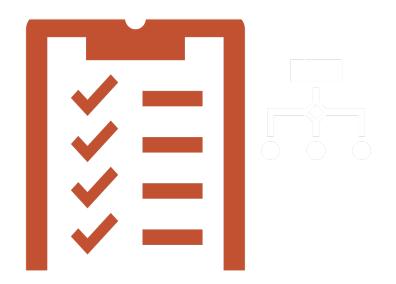
February 2023

Adapting Interventions to Accelerate Learning: A Look at The Taxonomy of Intervention Intensity

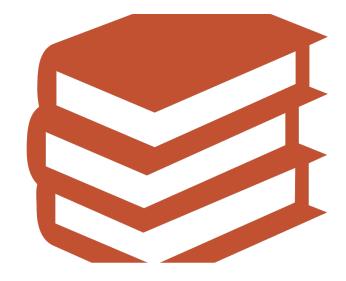


Learning Outcomes

Participants will:



Introduced to the Data-Based Individualization (DBI) process



Learn about the Taxonomy of Intervention Intensity



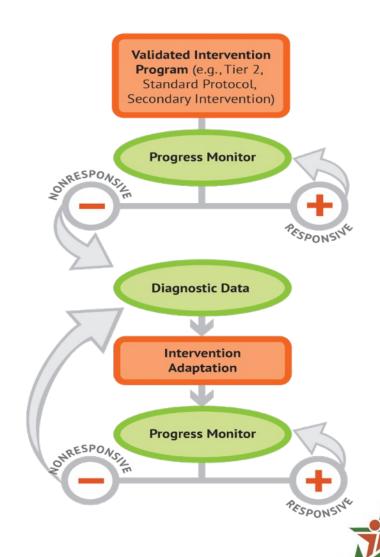
Setting the Stage: Data-Based Individualization

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at American Institutes for Research

Data-Based Individualization

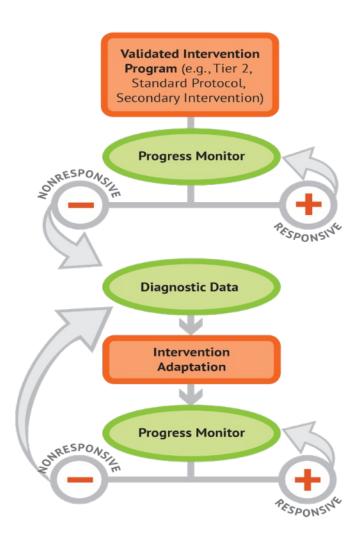
- The National Center on Intensive Intervention
- A systematic method for using data to determine when and how to provide more intensive intervention.
- An ongoing process—not a single intervention.
- Intended for students with severe and persistent learning and behavioral needs.





Five DBI Steps

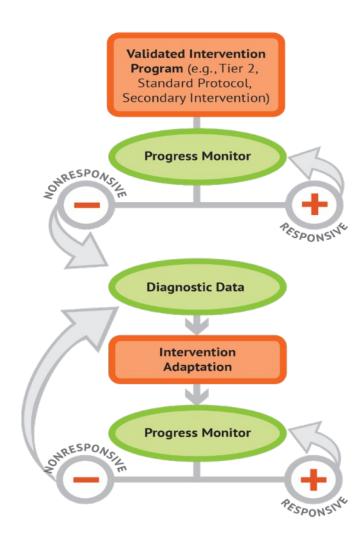
- Validated intervention program, delivered with fidelity
- 2. Progress monitoring
- 3. Informal diagnostic assessment
- 4. Adaptation to validated intervention
- Continued progress monitoring, with adaptations occurring whenever needed to ensure adequate progress





Today's Focus

- Validated intervention program, delivered with fidelity
- 2. Progress monitoring
- 3. Informal diagnostic assessment
- 4. Adaptation to validated intervention
- Continued progress monitoring, with adaptations occurring whenever needed to ensure adequate progress





Validated Intervention Programs: Components to Consider

Opportunities to respond

Group size

Effect size

Evidence-based programs

Alignment with grade-level standards

Explicit instruction and modeling Concrete learning opportunities

Frequency and duration of intervention

Connection to Tier 1 instruction

Break tasks into smaller steps





Validated Intervention Programs: Components to Consider





Key Considerations When Selecting or Evaluating Validated Interventions for DBI

- ✓ Does evidence suggest that the intervention is expected to lead to improved outcomes (strength)?
- ✓ Will the group size, duration, and frequency provide sufficient opportunities to respond (dosage)?
- ✓ Does the intervention match the student's identified needs (alignment)?
- ✓ Does it assist the student in generalizing the learned skills to general education or other tasks (promoting transfer)?
- ✓ Does the intervention include elements of explicit instruction (comprehensiveness)?
- ✓ Does the student have opportunities to develop the behavior skills needed to be successful (behavioral support)? Can the intervention be easily integrated into academic instruction (academic support)?
- ✓ Can the intervention be individualized with a data-based process to meet student needs (individualization)?





Taxonomy of Intervention Intensity

Strength	Dosage	Alignment	Attention to Transfer	Comprehensiveness	Behavioral or Academic Support
Evidence of effectiveness	Number of opportunities the student has torespond and receive feedback	How well the intervention matches the targeted academic skills or behavior concerns	Intervention is explicitly designed to help students make connections between the skills taught in intervention and other environments	How well the intervention incorp orates explicit instruction principles	Whether an academic intervention incorporates behavioral strategies or whether a behavioral intervention considers academic components.
Does evidence suggest that the intervention is expected to lead to improved outcomes?	Does the student need additional practice opportunities or feedback to benefit from the intervention?	Have you considered the antecedents – behavior-consequences?	Do data suggest the student is making progress in the intervention, but not transferring the skills to other settings?	Does the academic intervention include elements of explicit instruction? (e.g., models efficient strategies)	How engaged and involved is the student in this intervention or activity?

Fuchs, Fuchs, and Malone (2017).

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Taxonomy: Academics and Behavior

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Taxonomy of Intervention Intensity: Academics



The *Taxonomy of Intervention Intensity** was developed based on existing research to support educators in evaluating and building intervention intensity.

Dimensions*	Description
Strength	How well the program works for students with intensive intervention needs, expressed in terms of effect sizes of above .25 indicate an intervention has value in improving outcomes. Effect sizes of 0.35 to 0.40 are moderate; effect sizes of 0.50 or larger are strong (preferred).
Dosage	The number of opportunities a student has to respond and receive corrective feedback. It refers to the size of the instructional group, the number of minutes each session lasts, and the number of sessions provided per week.
Alignment	How well the program (a) addresses the target student's full set of academic skill deficits, (b) does <i>not</i> address skills the target student has already mastered (extraneous skills for that student), and (c) incorporates a meaningful focus on grade-appropriate curricular standards.
Attention to transfer	The extent to which an intervention is designed to help students (a) transfer the skills they learn to other formats and contexts and (b) realize connections between mastered and related skills.
Comprehensiveness	The number of explicit instruction principles the intervention incorporates (e.g., providing explanations in simple, direct language; modeling efficient solution strategies instead of expecting students to discover strategies on their own; providing practice so students use the strategies to generate many correct responses; and incorporating systematic cumulative review).
Behavioral support	The extent to which the program incorporates (a) self-regulation and executive function components and (b) behavioral principles to minimize nonproductive behavior.
Individualization	A validated, data-based process for individualizing intervention, in which the educator systematically adjusts the intervention over time, in response to ongoing progress monitoring data, to address the student's complex learning needs

*Fuchs, L.S, Fuchs, D. & Malone, A.S. (2017). The Taxonomy of Intervention Intensity. TEACHING Exceptional Children, 50(1), 35-43.

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Taxonomy of Intervention Intensity: Behavior

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The *Taxonomy of Intervention Intensity** was developed based on existing research to support educators in evaluating and building intervention intensity.

); }	Dimensions*	Description			
	Strength	How well the program works for students with intensive intervention needs, sometimes expressed as a promising or effective program by a reliable source (e.g., NCII Tools Charts, WWC).			
	Dosage	The number of opportunities a student has to (a) respond (i.e., practice/demonstrate skill), (b) receive positive feedback (e.g., praise, tokens, points), (c) exchange for backup reinforcers, and (d) receive corrective feedback.			
	Alignment	How well the program (a) addresses school-wide expectations, (b) addresses classroom/teacher expectations, (c) addresses student's skill deficits, (d) matches rewards to student's preferences and/or function of problem behavior, and (e) does not address extraneous skills.			
	Attention to transfer	The extent to which an intervention emphasizes how and when a student uses skills across contexts/situations and includes opportunities to practice using skills across context/situations. The program reinforces the use of skills across contexts/situations.			
	Comprehensiveness	The extent to which the intervention includes a plan for (a) teaching appropriate behavior, (b) adjusting antecedent conditions to prevent problem behavior, (c) reinforcing appropriate behavior, (d) minimizing reinforcement for problem behavior, (e) fading supports (and supports can be easily faded), (f) monitoring fidelity, (g) working in conjunction with related services, and (h) communicating with parents.			
	Academic support	The extent to which the program (a) can be easily integrated within context of academic instruction, (b) complements rather than supplants academic focus, and (c) includes procedures for reinforcing responses related to academic achievement (e.g., engagement, work completion).			
V)	Individualization	A validated, data-based process for individualizing intervention, in which the educator systematically adjusts the intervention over time, in response to ongoing progress monitoring, to address the student's complex learning needs.			

*Adapted from Fuchs, L.S, Fuchs, D. & Malone, A.S. (2017). The Taxonomy of Intervention Intensity. TEACHING Exceptional Children, 50(1), 35-43.

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Academic Rating Rubric

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Taxonomy of Intervention Intensity: Academic Rating Rubric

This tool can support teams in selecting and evaluating validated interventions for small groups or individual students. Teams may consider using data available on the National Center on Intensive Intervention Academic Tools Chart and the publishers' websites as well as results from previous implementation efforts. Each dimension will be rated on a scale of 0– Fails to Address Standard to 3 – Addresses Standard Well. Visit the NCII website for additional information about the dimensions of the Taxonomy of Intervention Intensity and use the Intervention Plan (For Small Groups or Individual Students) to document ratings and adaptations over time.

	0 Fails to Address Standard	1 Addresses Standard Minimally	2 Addresses Standard Moderately	3 Addresses Standard Well
Strength	 No validated studies No effect size can be determined Reported effect size is ≤ 0 	0.2 < Effect Size < 0.34 (researcher-designed measure)	Effect size 0.35 - 0.55 (researcher- designed measure) -OR- Effect size 0.20 - 0.3 (standardized measure)	Effect Size > 0.55 (researcher-designed measure) -OR- Effect Size > 0.3 (standardized measure)
Dosage	Same as Tier I (opportunities to respond and receive corrective feedback are similar to Tier 1)	Slightly more than Tier 1 (e.g., 2-3x more opportunities to respond and receive corrective feedback)	Same as Tier 2 (e.g., 4-5x more opportunities to respond and receive corrective feedback)	Substantially more than Tier 2 (>5x more opportunities to respond and receive corrective feedback)
Alignment	Does not align to students' or student's needs	Only address some of a students' or student's deficits, overemphasizes already mastered skills, and is not aligned to grade-level standards	Addresses most students' or student deficits, does not overemphasize already mastered skills, and aligns to curriculum standards	Addresses all of students' or student's deficits, does not overemphasize already mastered skills, and aligns to curriculum standards

National Center on Intensive Intervention

Taxonomy of Intervention Intensity—1

- Used to evaluate an intervention
- Scale 0 3
- Can be evaluated by individual educators or a team



Other Resources

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Purpose of the Academic Intervention Taxonomy Briefs

- The briefs provide educators with information to evaluate the appropriateness of academic interventions available on the Academic Intervention Tools Chart for students who require intervention.
- The information included in the briefs is organized along the dimensions of the Taxonomy of Intervention Intensity.



Intervention Taxonomy Brief: Fraction Face-Off!

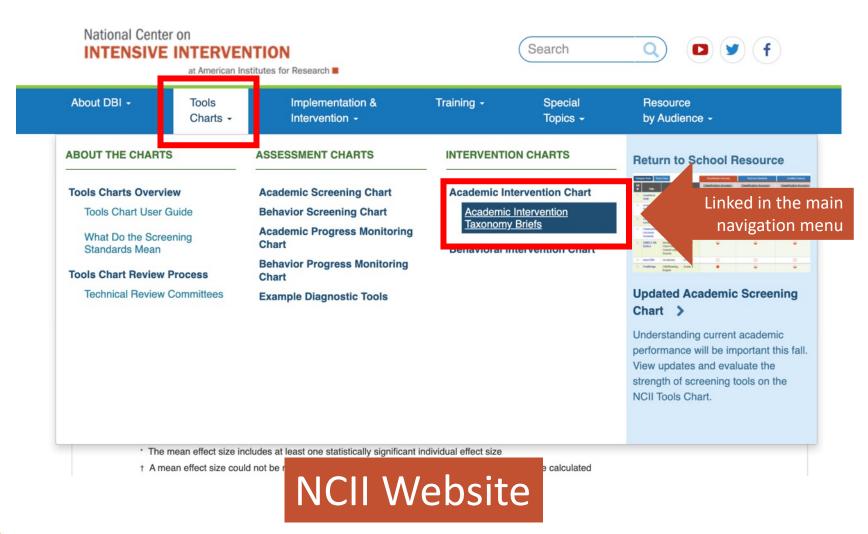
The goal of this brief is to provide educators with information they can use to evaluate the appropriateness of **Fraction Face-Off!** for a specific student or group of students who require supplemental and intensive intervention. The brief also may be used to guide decisions about the selection or purchase of a new intervention. We envision that the brief may allow users to examine the extent to which the program aligns to the Taxonomy of Intervention Intensity, a framework used by educators to categorize interventions along key dimensions. The information included in this brief is organized along the seven dimensions of the Taxonomy of Intervention Intensity and can assist educators in answering the following questions:

- Does evidence suggest that this intervention is expected to lead to improved outcomes in the identified area of need (strength)?
- Will the group size, duration, structure, and frequency provide sufficient opportunities for students to respond and receive corrective feedback (dosage)?
- Does the intervention match the student's identified needs (alignment)?
- Does the intervention assist the student in generalizing target skills to general education or other tasks (attention to transfer)?
- Does the intervention include elements of explicit instruction (comprehensiveness)?
- Does the student have opportunities to develop the behavior skills necessary to be successful (behavioral support)?
- Can the intervention be individualized with a data-based process to meet student needs (individualization)?

https://intensiveintervention.org/tools-charts/academic-intervention-taxonomy-briefs



Locate the Briefs on the NCII Website



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Academic Briefs Currently Available

Mathematics Reading **Leveled Literacy Intervention** Fraction Face-off! **Lexia Core5 Reading** Fusion Whole Number Foundations Level 1 Lexia PowerUp Literacy **Hot Math Tutoring** Promoting Adolescent's Comprehension **Number Rockets** of Text Pirate Math Read Naturally Live **ROOTS Whole Number Foundations Level K** Seeing Stars Program: Symbol Imagery for **Spring Math** Phonological and Orthographic Strategic Instruction Multiplication With Processing in Reading and Spelling Regrouping Partial Products Algorithm Sound Partners Strategic Instruction Multiplication With Visualizing and Verbalizing Program for Regrouping Standard Algorithm



Language Comprehension and Thinking



Taxonomy of Intervention Intensity: Module

Overview of the Taxonomy of Intervention Intensity



This interactive self-paced module is intended to help educators and administrators learn about the Taxonomy of Intervention Intensity. By completing this course, you will be able to:

. Define the dimensions of the Taxonomy of Intervention Intensity.

Overview of the Taxonomy of

Intervention Intensity
How to Select, Evaluate, and Intensify Interventions

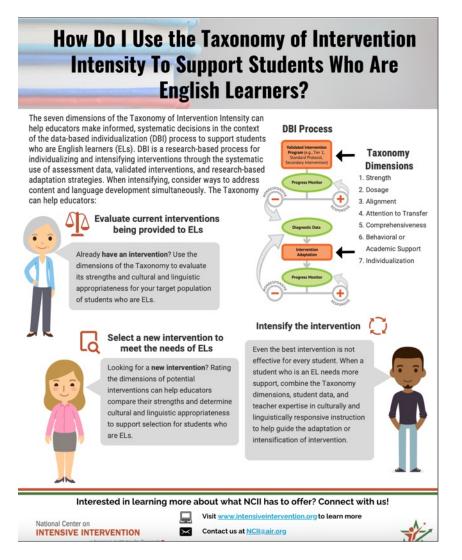
- Explain how the Taxonomy of Intervention Intensity can support the selection, design, or evaluation of a validated intervention program.
- Explain how the Taxonomy of Intervention Intensity can be used to intensify an intervention for a student who is

- In-depth module about the Taxonomy of Intervention Intensity
- Approximately 30 min

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How to Support English Learners



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Questions?



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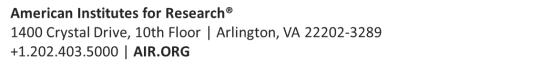


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https://twitter.com/TheNCII

https://www.youtube.com/c/NationalCenteronIntensiveIntervention









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