Resource: NCII Math Course

From the National Center on Intensive Intervention, there is a FREE video-based course about best practices for mathematics intervention. There are eight modules within the course. Each module has an introduction, three parts, and a conclusion.

https://intensiveintervention.org/training/course-content/intensive-intervention-mathematics

This table provides an overview of each module and the three parts of each module.

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Part	Objective(s)	
Module 1:		
Developing a scope and sequence for intensive intervention		
https://intensiveintervention.org/developing-scope-and-sequence-math-course		
Part 1: Why is mathematics	How earlier mathematics scores predict later	
intensive intervention	mathematics scores	
important?	2. The school and adulthood outcomes for students	
	with learning difficulties in mathematics	
	3. The importance of providing intensive intervention in	
	mathematics	
Part 2: What mathematical	1. The foundational mathematical strands that students	
content do students need	need to know across grade levels	
to master across	2. How these strands should inform the mathematical	
kindergarten through	content within intensive intervention	
eighth grade?		
Part 3: How to identify	1. How to identify mathematical content for intensive	
mathematical content for	intervention	
intensive intervention and	2. How to sequence instructional content based on	
how to sequence	foundational mathematical strands	
intervention content?		
Module 2:		
	gress Monitoring and Determining Response	
https://intensiveintervention.org/progress-monitoring-math-course		
Part 1: What are the	1. The definition of a formative assessment and the	
different types of	difference between general outcome measures and	
assessments used to	skill-specific measures	
monitor student progress in	2. The definition of a diagnostic assessment	
mathematics within DBI?	3. The definition of a summative assessment	
Part 2: How do you	How to administer and score early numeracy	
administer progress	progress monitoring measures	



monitoring measures with fidelity?	2. How to administer and score computation progress monitoring measures3. How to administer and score concepts and applications progress monitoring measures
Part 3: How do you interpret progress monitoring scores?	How to graph progress monitoring scores How to interpret progress monitoring scores How assessment data is used within a DBI framework
	Module 3:
	vention.org/evidence-based-practice-math-course
Part 1: What are the forms of evidence-based practices in intensive intervention?	The definition of the term "evidence-based practice" The differences among evidence-based practices, evidence-based intervention, evidence-based strategies, and promising practices
Part 2: Where do you locate evidence-based practices?	Several methods for locating evidence-based practices How to understand what constitutes "evidence"
Part 3: How do you determine the instructional platform for intensive intervention?	How to develop the instructional platform for intensive intervention
	Module 4:
	ematics Intervention: Instructional Delivery ervention.org/instructional-delivery-math-course
Part 1: How do you use explicit instruction within intensive intervention?	How to include modeling and practice within delivery of intensive intervention Which supporting practices are necessary within explicit instruction
Part 2: How should multiple representations be used within intensive intervention?	 What is meant by "concrete" What is meant by "representational" What is meant by "abstract"
Part 3: How do you attend to language within intensive intervention?	Why it's important to be precise with mathematical language Informal vocabulary terms that teachers often use and the formal vocabulary that could be used



Module 5: **Intensive Mathematics Intervention: Instructional Strategies** https://intensiveintervention.org/instructional-strategies-math-course Part 1: How do you build 1. How to build fluency with the operations of addition, fact fluency within subtraction, multiplication, and division intensive intervention? Part 2: How do you 1. Ineffective problem-solving strategies incorporate effective 2. Different types of attack strategies problem-solving strategies 3. Additive and multiplicative schemas within intensive intervention? Part 3: How do you 1. Different methods for incorporating a motivational incorporate a motivational component within intensive intervention component within intensive intervention? Module 6: Whole-Number Content for Intensive Intervention https://intensiveintervention.org/whole-number-math-course 1. Core concepts of addition, subtraction, Part 1: What whole-number core concepts should be multiplication, and division emphasized in intensive intervention? Part 2: What whole-number 1. Place value and regrouping concepts related to procedures should be procedures emphasized in intensive 2. Multiple algorithms for addition, subtraction, intervention? multiplication, and division of whole numbers Part 3: What does DBI look 1. How concepts and procedures are practiced within like with intensive intensive intervention that utilizes evidence-based interventions that focus on practices conceptual and procedural understanding of whole numbers? Module 7: Rational-Number Content for Intensive Intervention https://intensiveintervention.org/rational-number-math-course Part 1: What rational-1. Core concepts of fractions with the length, area, and set models number core concepts should be emphasized in 2. Core concepts of decimals intensive intervention?



Part 2: What rational- number procedures should be emphasized in intensive intervention?	Computational models for addition, subtraction, multiplication, and division of fractions Computational models for addition, subtraction, multiplication, and division of decimals
Part 3: What does DBI look like with intensive interventions that focus on conceptual and procedural understanding of rational numbers?	How concepts and procedures are practiced within intensive intervention that utilizes evidence-based practices
	alization for Intensive Mathematics Intervention ensive intervention.org/DBI-math-course
Part 1: How do you implement intensive mathematics interventions with fidelity?	About different methods for measuring fidelity How to identify essential components that must be included within intensive intervention
Part 2: How do you make adaptations within DBI?	The taxonomy of intervention adaptations Common adaptations to use within DBI when response is not adequate
	1. How the entire DBI process works

