



Structuring Math Intervention for Grades 3-5

Course Syllabus

Course Description

The purpose of this professional development course is to define math intervention and become familiar with the components of effective math intervention and instruction at an intermediate level, specifically grades 3-5. The learner will come away from this course with an in-depth understanding of the mathematical standards and expectations at each grade level. The learner will explore ways to identify learning gaps and design interventions both within an MTSS framework and within the classroom. The learner will explore best practices while gaining practical strategies to use for math intervention geared towards grades 3-5.

This course enhances classroom teaching effectiveness and supports improved student outcomes by introducing new knowledge in targeted math intervention strategies, instructional best practices, and standards-based planning for grades 3-5.

Course Objectives

At the end of this course you should be able to:

1. Define Math Intervention at an Intermediate Level.
2. Identify the MTSS Process.
3. Analyze the 3rd–5th grade Common Core State Standards for Mathematics by identifying key components, evaluating aligned instructional resources, and explaining the importance of standards-based instruction.
4. Interpret the progression of key math standards across grades 3–5 by identifying methods for diagnosing skill gaps and explaining how this knowledge informs targeted intervention strategies.
5. Apply knowledge of universal screening, benchmark assessments, and progress monitoring to interpret student data and guide instructional decisions.
6. Analyze the developmental characteristics and learning needs of 3rd–5th grade students to inform appropriate instructional strategies and motivation techniques.
7. Evaluate effective instructional strategies and practices for math intervention to select and implement approaches that support student learning in the classroom.
8. Design a structured math intervention plan by selecting appropriate content, evaluating instructional programs, and incorporating practical, ready-to-use strategies for classroom implementation.

Modules

- Module 1: Intermediate Math Intervention, Quiz 1
- Module 2: The MTSS Process, Quiz 2
- Module 3: The Mathematical Standards Grades 3-5, Quiz 3
- Module 4: The Progression of Standards and Skill Gaps, Quiz 4
- Module 5: Assessments, Progress Monitoring & Benchmarks, Quiz 5



- Module 6: The 3rd-5th Grade Learner, Quiz 6
- Module 7: Instructional Strategies, Quiz 7
- Module 8: Finding Time & Designing Instruction, Quiz 8

Grading

Each quiz must be passed at an 80% or higher (three attempts allowed).

Format

This is a self-paced, asynchronous (no required live meetings) course. Throughout the PD course, you will find it helpful to take notes along the way to assist with the quizzes. Within each module, you will find reflection assessments that are not graded but will help in your journey through the course. There is an interactive forum in the course to help you connect with peers and instructors, share ideas, and collaborate on best practices throughout your learning journey.