

















Response to Intervention (RtI) Project

Table 2. Recommendations and corresponding levels of evidence	CurrTech Integrations' Differentiated Mathematics Program Solution to Response to Intervention (RtI) Project
Tier 1 	
1. Screen all students to identify those at risk for potential mathematics difficulties and provide interventions to students identified as at risk.	<ul style="list-style-type: none"> • Milestones/Benchmark Assessments • Spiral Reviews • Tiered Instruction and Assessment
Tiers 2  and 3 	
2. Instructional materials for students receiving interventions should focus intensely on in-depth treatment of whole numbers in kindergarten through grade 5 and on rational numbers in grade 4 through 8. These materials should be selected by committee.	<ul style="list-style-type: none"> • Spiral Reviews
3. Instruction during the intervention should be explicit and systematic. This includes providing models of proficient problem solving, verbalization of thought processes, guided practice, corrective feedback, and frequent cumulative review.	<ul style="list-style-type: none"> • Tiered Instruction and Assessment
4. Interventions should include instruction on solving word problems that is based on common underlying structures.	<ul style="list-style-type: none"> • Performance Tasks • Tiered Instruction and Assessment
5. Intervention materials should include opportunities for students to work with visual representations of mathematical ideas and interventionists should be proficient in the use of visual representations of mathematical ideas.	<ul style="list-style-type: none"> • Tiered Instruction and Assessment
6. Interventions at all grade levels should devote about 10 minutes in each session to building fluent retrieval of basic arithmetic facts.	<ul style="list-style-type: none"> • Spiral Reviews
7. Monitor the progress of students receiving supplemental instruction and other students who are at risk.	<ul style="list-style-type: none"> • Milestones/Benchmark Assessments • Spiral Reviews • Tiered Instruction and Assessment
8. Include motivational strategies in tier 2 and tier 3 interventions.	<ul style="list-style-type: none"> • Enrichments • Performance Tasks

Source: Table 2. Recommendations and Corresponding Levels of Evidence from article: [Assisting Students Struggling with Mathematics: Response to Intervention \(RtI\) for Elementary and Middle Schools](#), 4/09 publication issued by NASDSE. (NCEE 2009-406), U.S. D.O.E.

CurrTech Integrations' Differentiated Mathematics Program

-  • **Milestone/Benchmark Assessments** are designed to support effective instructional decision making. These quarterly assessments, tailored to match your district/state curriculum and standards, measure the students' progress on 5-7 standards (big ideas). This real-time data helps teachers know what students understand and where more work is needed. **Available for grades K-8, Algebra I & II, and Geometry.**
Each module Includes: 4 quarterly assessments with identified standards Teachers Guide includes exemplary responses and scoring tools. Selected response and extended response items. Selective response items are designed for use with student response systems.
-  • **Spiral Reviews** are an essential teaching tool in developing a student's long-term memory. Each day throughout the school year, students are assessed with at least 5 questions on concepts they may have been exposed to a week ago, a month ago, or a quarter ago. This iterative process enables students to build and maintain mastery and enhances performance on yearly high-stakes tests. Available for grades K-8, Algebra I & II, and Geometry.
Each module Includes: 180 days of Spiral Reviews; 5 questions per day; 3 days per week use selective response items; 2 days per week use extended response items; selective response items are designed for student response systems and Teachers Guide with exemplary responses.
-  • **Tiered Instruction and Assessments** supports truly differentiated instruction by helping teachers challenge and assess students who are at different levels of performance. The multi-level set of tasks for each standard range from Level I tasks which are at a minimum level of cognitive demand to Level IV tasks which engage students in complex thinking involving reasoning and problem solving. By being able to match instruction to the students' performance level, all students can be engaged and improved performance. Available for Grades K-8.
Each module includes: A set of tiered assessment task items (typically 500) sufficient for a year of instruction and A Teachers Guide that includes exemplary responses and scoring tools.
-  • **Enrichments** supports differentiated instruction model by allowing teachers to meet the needs of students who deserve additional motivation and challenge. The Enrichments are designed to challenge students who have demonstrated an understanding of a standard. They support a deeper understanding of concepts rather than an attempt to accelerate students. Available for grades 3-8.
Each module Includes: 120-150 problems divided into 6 content areas; Numbers and operations, Geometry and measurement; Statistics; Probability; Patterns, functions, and Algebra; and Teachers Guide that includes exemplary responses and rubrics matched to each problem.
-  • **Performance Tasks** stretch students and enhance their understanding by challenging them to use their knowledge in authentic real world problem solving situations. The tasks require students to integrate multiple concepts and apply multiple skills to solve a problem that has multiple pathways for solutions and a range of acceptable answers. The students develop a product, typically over 3-5 days of instruction that includes explanations, justifications, and representations. Available for grades 1-8.
Each module Includes: 4 Performance Tasks; Teachers Guide which includes: an overview, materials list, approximate time, exemplary responses, teacher notes and evaluation criteria; and Student Booklet.