



Math RtI Tier 2 Implementation Guide

“Tier 2 students receive supplemental small group mathematics instruction aimed at building targeted mathematics proficiencies.”
 (IES Practice Guide: [Assisting Struggling Students with Mathematics, 2009.](#))

Essential Components	Description	Time Frame	Research
Screen all students 3 to 4 times per year	<p>Delta Math grade level readiness screeners will be used to measure end-of-year benchmarks selected from the previous year common core content standards.</p> <p>Whole numbers (grades 1 → 5) Fractions (grades 4 → 7) Algebraic concepts (grades 7 → Algebra 1)</p> <p><i>For example, 5th grade students are assessed using 5th grade readiness screeners.</i></p>	<p>Use the readiness screener for the current grade-level:</p> <p>Fall (Aug. 15 – Oct. 31) Winter (Nov. 1 – Feb. 28) *Spring (March 1 – April 30)</p> <p>*Option: Screen students who received winter tier 2 interventions to measure impact.</p>	<p>Assisting Students Struggling with Mathematics, Recommendation 1</p> <p>Using Student Achievement Data to Support Instructional Decision Making, Recommendations 3, 4, 5</p> <p>MDE Vision of RtI: A Multi-Tiered System of Supports, Essential Component 2</p>
	<p>Screen-up <u>all</u> students to measure the impact of Tier 1 instruction and identify students who may benefit from summer and/or early fall interventions.</p> <p><i>For example, 5th grade students are assessed using 6th grade spring readiness screeners.</i></p>	<p>Use the readiness screener for the next grade-level:</p> <p>Spring (May 1 – June 7)</p>	
Identify students below benchmark	<p>Delta Math reports will be used to identify all students who may not be ready to learn current grade level content standards.</p> <ul style="list-style-type: none"> ➤ Validate unexpected screener results to rescreen students who did not perform as expected. (Course Overview Report) ➤ Identify readiness standards to begin targeted interventions with all students. (Standard Summary Report) ➤ Validate unexpected results on a single readiness standard and identify all students for a targeted intervention group. (Intervention Group Report) 	<p>Three times per year: <i>(After screening all students)</i></p> <p>Three times per year: <i>(After screening all students)</i></p> <p>Multiple times per year: <i>(Before scheduling students for each targeted intervention)</i></p>	<p>Assisting Students Struggling with Mathematics, Recommendation 1</p> <p>Using Student Achievement Data to Support Instructional Decision Making, Recommendations 1, 3, 4, 5</p> <p>MDE Vision of RtI: A Multi-Tiered System of Supports, Essential Components 4, 8</p>



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Essential Components	Description	Time Frame	Research
Communicate Data	<p>Delta Math “Student Performance” reports will be used to communicate with parents and other critical stakeholders on the performance of the student and the plan to provide future support.</p>	<p>Three times per year: <i>(After a student completes each grade level readiness screener.)</i></p>	<p>Using Student Achievement Data to Support Instructional Decision Making, <i>Recommendations 3, 4, 5</i></p> <p>MDE Vision of RtI: A Multi-Tiered System of Supports, <i>Essential Component 11</i></p>
Provide targeted interventions	<p>Delta Math standard-based intervention planning guides will be used to support instruction that includes the following evidence-based strategies:</p> <ul style="list-style-type: none"> ➤ is explicit and systematic ➤ includes instruction on solving word problems that is based on common underlying structures ➤ includes opportunities for students to work with visual representation of mathematical ideas. ➤ includes motivational strategies, such as students setting goals and visually charting their own progress. <p><i>Note: Planning guides are available at www.deltamath.org under the Team Leader Resources tab. Instruction and practice resources are available for grades 1 → 3 and grades 4 → Algebra 1 are currently under development.</i></p>	<p>Multiple times per year: <i>(During targeted intervention sessions)</i></p>	<p>Assisting Students Struggling with Mathematics, <i>Recommendations 3, 4, 5, 8</i></p> <p>Using Student Achievement Data to Support Instructional Decision Making, <i>Recommendation 2</i></p> <p>MDE Vision of RtI: A Multi-Tiered System of Supports, <i>Essential Components 2, 3, 6, 8</i></p>



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Essential Components	Description	Time Frame	Research
<p>Monitor student progress during targeted interventions</p>	<p>Delta Math Quick Checks and Growth Charts will be used to measure and monitor student progress.</p>	<p>Multiple times per year: <i>(During standards-based intervention sessions)</i></p>	<p>Assisting Students Struggling with Mathematics, <i>Recommendations 7</i></p> <p>Using Student Achievement Data to Support Instructional Decision Making, <i>Recommendations 1, 3, 4, 5</i></p> <p>MDE Vision of RtI: A Multi-Tiered System of Supports, <i>Essential Components 2, 7, 8, 9</i></p>
<p>Provide additional support for students not responding to targeted interventions</p>	<p>Delta Math Student Performance reports, Quick Checks and Growth Charts will be used by a problem solving team to create a plan for increasing intervention support.</p>	<p>Multiple times per year: <i>(Near the end of each standards-based intervention cycle)</i></p>	<p>Using Student Achievement Data to Support Instructional Decision Making, <i>Recommendations 1, 3, 4, 5</i></p> <p>MDE Vision of RtI: A Multi-Tiered System of Supports, <i>Essential Components 2, 4, 8</i></p>
<p>Analyze program impact and modify where necessary</p>	<p>Delta Math Standard Summary reports will identify what appeared to work well during targeted interventions and what changes, if any, should be made during upcoming targeted interventions.</p>	<p>Two or more times per year: <i>(After the winter and spring screening sessions)</i></p>	<p>Using Student Achievement Data to Support Instructional Decision Making, <i>Recommendations 1, 3, 4, 5</i></p> <p>MDE Vision of RtI: A Multi-Tiered System of Supports, <i>Essential Component 8</i></p>