



Understanding RTI in Mathematics: Proven Methods and Applications

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Response to intervention—it's already improving reading outcomes in classrooms across the country, and this approach can be equally effective for K–12 mathematics instruction. This is the definitive volume on RTI in math: what we know about it, why it works, and how to use it to ensure high-quality math instruction and higher student achievement.

Edited by National Math Panel veteran Russell Gersten with contributions by all of the country's leading researchers on RTI and math, this cutting-edge text blends the existing evidence base with practical guidelines for RTI implementation. Current and future RTI coordinators, curriculum developers, math specialists, and department heads will get the best, most up-to-date guidance on key facets of RTI in math:

- conducting valid and reliable **universal screening** in mathematics
- using evidence-based practices to provide a strong **general education curriculum** for effective Tier 1 instruction
- implementing **explicit, research-based teaching practices** for students who need Tier 2 and 3 instruction
- monitoring students' progress with high-quality tools and measures
- **motivating and engaging** struggling students receiving Tier 2 and 3 instruction
- teaching students to use an array of **visual representations** to help them solve math problems
- tailoring RTI for **every grade level**, from kindergarten through high school
- using RTI to target **specific mathematical proficiencies and concepts**, such as number sense, word problems, algebra, and ratios and proportions

Filled with vignettes, accessible summaries of the most recent studies, and best-practice guidelines for making the most of RTI, this comprehensive research volume is ideal for use as a textbook or as a key resource to guide decision makers.

Readers will have the knowledge base they need to strengthen mathematics instruction with proven RTI practices—and help ensure better math outcomes for students at every grade level.

With contributions by

- Scott Baker
- Diane Pedrotty Bryant
- Douglas Carnine
- Ben Clarke
- Lynn S. Fuchs
- Douglas Fuchs
- Asha K. Jitendra
- Erica S. Lembke
- Takako Nomi
- Paul J. Riccomini
- Bradley S. Witzel
- John Woodward
- and more

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