

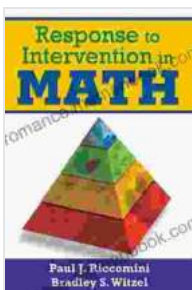
Response to Intervention in Mathematics: A Comprehensive Guide to Enhancing Student Learning

Response to Intervention (RTI) is a three-tiered model of instruction that provides increasingly intensive support to students who are struggling academically. RTI in mathematics is designed to identify students who are at risk for math difficulties and to provide them with targeted interventions to help them catch up to their peers.

The three tiers of RTI in mathematics are:

- **Tier 1:** Universal screening and instruction
- **Tier 2:** Targeted intervention
- **Tier 3:** Intensive intervention

All students in Tier 1 receive the same core mathematics instruction. This instruction is based on the Common Core State Standards for Mathematics and is delivered in a way that is engaging and accessible to all students.



Response to Intervention in Math by Paul J. Riccomini

★★★★☆ 4.5 out of 5

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Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 169 pages



In addition to core instruction, students in Tier 1 also receive universal screening. This screening is used to identify students who are struggling with mathematics and who may need additional support. Universal screening is typically conducted three times per year: at the beginning of the school year, in the middle of the school year, and at the end of the school year.

Students who are identified as struggling in mathematics through universal screening are placed in Tier 2. In Tier 2, students receive targeted intervention in addition to their core mathematics instruction. Targeted intervention is typically provided in small groups and is tailored to the individual needs of the students.

There are a variety of different targeted interventions that can be used in mathematics. Some common interventions include:

- **Number sense:** This intervention helps students to develop a deep understanding of numbers and their relationships.
- **Addition and subtraction:** This intervention helps students to develop proficiency in addition and subtraction facts.
- **Multiplication and division:** This intervention helps students to develop proficiency in multiplication and division facts.
- **Algebra:** This intervention helps students to develop algebraic thinking skills.
- **Geometry:** This intervention helps students to develop geometry skills.

Students who do not respond to targeted intervention are placed in Tier 3. In Tier 3, students receive intensive intervention in addition to their core mathematics instruction. Intensive intervention is typically provided in one-on-one or small group settings and is highly individualized.

There are a variety of different intensive interventions that can be used in mathematics. Some common interventions include:

- **Cognitive tutoring:** This intervention helps students to develop problem-solving skills and strategies.
- **Metacognitive training:** This intervention helps students to learn how to self-monitor their learning and to make adjustments as needed.
- **Peer tutoring:** This intervention pairs struggling students with more proficient peers who can provide support and guidance.
- **Summer school:** This intervention provides additional mathematics instruction during the summer months.

RTI in mathematics has a number of benefits, including:

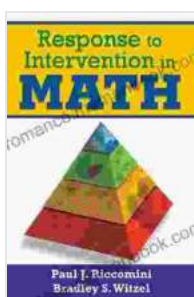
- **Improved student outcomes:** RTI has been shown to improve student outcomes in mathematics. Students who participate in RTI are more likely to catch up to their peers and to succeed in mathematics.
- **Early identification of struggling students:** RTI helps to identify struggling students early on, so that they can receive the support they need to succeed.
- **Targeted interventions:** RTI provides targeted interventions that are tailored to the individual needs of students. This ensures that students

are receiving the most appropriate support to help them succeed.

- **Improved teaching practices:** RTI helps teachers to improve their teaching practices. By providing teachers with data on student progress, RTI helps teachers to identify areas where they can improve their instruction.

RTI in mathematics is a valuable tool for improving student outcomes. By providing students with targeted interventions, RTI can help them to catch up to their peers and to succeed in mathematics.

If you are concerned about your child's progress in mathematics, talk to your child's teacher or school administrator. RTI may be a good option for your child if they are struggling with mathematics.

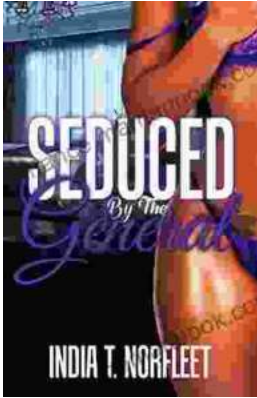


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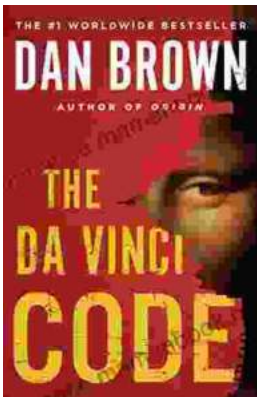
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