

# What Works Clearinghouse Math

## Math Interventions What Works Clearinghouse

- Assisting Students Struggling with Mathematics: Response to Intervention (RtI) for Elementary and Middle Schools
- April 2009
- 8 recommendations
  - Assessment
  - Intervention materials
  - Intervention content
- You have a portion of the report (see inside cover for url for full report)



**What Works Clearinghouse Math** is a vital resource for educators, policymakers, and researchers looking to enhance mathematics instruction and improve student outcomes. Established by the U.S. Department of Education, the What Works Clearinghouse (WWC) aims to provide educators with reliable evidence on the effectiveness of various educational programs, practices, and policies. This article will delve into the WWC's approach to evaluating mathematics interventions, the significance of the findings, and how educators can utilize this information to inform their teaching practices.

## Understanding the What Works Clearinghouse

The What Works Clearinghouse is part of the Institute of Education Sciences (IES) and focuses on synthesizing research findings to inform educational decision-making. The WWC evaluates studies on educational interventions and publishes reports that summarize the effectiveness of these interventions across various subjects, including mathematics.

## Goals and Objectives

The primary goals of the WWC include:

1. **Providing Evidence-Based Information:** The WWC helps educators and decision-makers find reliable information on what works in education.

2. Promoting Data Transparency: By sharing methodologies and findings, the WWC encourages transparency in educational research.
3. Facilitating Informed Decisions: The WWC aims to empower educators to make informed decisions about the instructional strategies they implement in their classrooms.

## **The WWC Mathematics Review Process**

The WWC employs a rigorous review process to evaluate the quality of research studies related to mathematics interventions. This process includes several key steps:

### **1. Study Identification**

The WWC identifies studies that meet its standards for inclusion. This includes randomized controlled trials, quasi-experimental designs, and correlational studies that address specific mathematics interventions.

### **2. Study Quality Assessment**

Each study undergoes a quality assessment based on the WWC's established standards. Studies are evaluated for their design, implementation, and analysis to determine their credibility and reliability. High-quality studies typically include:

- Random assignment to treatment and control groups
- Adequate sample sizes
- Appropriate statistical analyses

### **3. Effect Size Calculation**

The WWC calculates effect sizes to quantify the impact of interventions on student outcomes. Effect sizes provide a standardized measure of the magnitude of the intervention's effect, allowing for comparisons across different studies.

### **4. Reporting Findings**

The findings from the reviewed studies are compiled into reports that summarize the effectiveness of the reviewed mathematics interventions. These reports include:

- An overview of the intervention
- The populations studied
- The outcomes measured
- The overall effectiveness ratings

## **Categories of Mathematics Interventions**

The WWC categorizes mathematics interventions into several types to help educators find suitable programs for their needs. Some common categories include:

### **1. Curriculum and Instructional Materials**

This category includes comprehensive mathematics curricula designed to improve student understanding and achievement. Programs may focus on specific content areas such as algebra, geometry, or statistics.

### **2. Professional Development for Educators**

Interventions in this category aim to enhance teachers' instructional practices through training and support. This may involve workshops, coaching, or collaborative learning opportunities focused on effective mathematics teaching strategies.

### **3. Technology-Based Interventions**

Technology interventions leverage digital tools and platforms to support mathematics learning. This may include online tutoring, instructional software, or apps designed to reinforce mathematics skills.

### **4. Tutoring and Supplemental Support**

Tutoring interventions provide additional support to students who may be struggling in mathematics. This can include one-on-one tutoring sessions, small group instruction, or after-school programs.

## **Significance of WWC's Findings in Mathematics**

# Education

The findings from the WWC are crucial for several reasons:

## 1. Evidence-Based Decision Making

Educators and policymakers can rely on WWC reports to make informed decisions about which mathematics interventions to implement in their schools. By focusing on evidence-based practices, they can increase the likelihood of improving student outcomes.

## 2. Identifying Effective Practices

The WWC highlights effective practices that have been shown to work in real classrooms. By identifying these practices, educators can replicate successful strategies in their own teaching.

## 3. Resource Allocation

With limited resources, schools must prioritize interventions that yield the greatest impact. WWC findings help guide resource allocation decisions, ensuring that funding and support are directed toward effective programs.

## How Educators Can Use WWC Reports

Educators can leverage WWC reports to enhance their teaching practices and improve student outcomes in mathematics. Here are some practical steps for using WWC resources:

### 1. Explore the Database

Educators should familiarize themselves with the WWC's online database, which allows users to search for interventions by subject, grade level, and effectiveness ratings. This can help educators find suitable programs tailored to their students' needs.

### 2. Review Effectiveness Ratings

When selecting an intervention, educators should pay close attention to the effectiveness ratings provided by the WWC. These ratings categorize interventions as:

- Strong Evidence: High-quality studies demonstrate a statistically significant positive effect.
- Moderate Evidence: Some evidence supports effectiveness, but the quality of the studies may vary.
- Limited Evidence: Few studies exist, or the studies do not meet high standards for quality.

### **3. Implement Evidence-Based Practices**

Once educators have identified effective interventions, they should consider how to implement these practices in their classrooms. This may involve adapting curricula, modifying instructional strategies, or integrating technology.

### **4. Engage in Professional Development**

Educators should seek out professional development opportunities related to effective mathematics instruction. Engaging with ongoing training can enhance their skills and ensure they are using the best practices identified by the WWC.

### **5. Assess and Reflect**

After implementing an intervention, educators should assess its impact on student learning. By collecting data on student performance and reflecting on instructional practices, educators can make informed adjustments to improve outcomes further.

## **Conclusion**

In conclusion, the What Works Clearinghouse Math is an invaluable resource for educators seeking to enhance mathematics instruction and improve student achievement. By providing rigorous evaluations of educational interventions, the WWC empowers educators to make evidence-based decisions that can lead to better outcomes for students. Through careful exploration of the WWC's resources, educators can identify effective practices and strategies to foster a deeper understanding of mathematics in their classrooms. Ultimately, the WWC serves as a bridge between research and practice, ensuring that educators have the tools they need to succeed in their mission to educate the

next generation.

## **Frequently Asked Questions**

### **What is the What Works Clearinghouse (WWC) for math education?**

The What Works Clearinghouse (WWC) is an initiative of the Institute of Education Sciences that reviews and reports on the effectiveness of educational programs, practices, and interventions in various subjects, including math education.

### **How does the WWC evaluate math interventions?**

The WWC evaluates math interventions based on rigorous research standards, including randomized controlled trials and quasi-experimental designs, to determine their effectiveness in improving student outcomes.

### **What types of math interventions does the WWC focus on?**

The WWC focuses on a variety of math interventions, including instructional strategies, curricular materials, and technology-based programs aimed at enhancing student learning in mathematics.

### **Why is the WWC important for educators and policymakers?**

The WWC provides educators and policymakers with evidence-based information and recommendations to inform their decisions on selecting effective math programs and practices that can lead to improved student achievement.

### **What resources does the WWC offer for math education?**

The WWC offers a range of resources, including intervention reports, practice guides, and summaries of research findings that help educators understand effective practices in math education.

### **How can educators access WWC findings on math interventions?**

Educators can access WWC findings on math interventions through the WWC website, where they can search for specific interventions, read evaluation reports, and find resources tailored to their needs.



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