

Supporting Resources

This is a companion resource to the November 2024 webinar, **Supporting Practice Guide Implementation: [Assisting Students Struggling with Mathematics: Intervention in the Elementary Grades](#)**, the fourth in the National Center for Systemic Improvement (NCSI) Research to Practice Spotlight Series (<https://ncsi.wested.org/research-to-practice-webinar-series/>). The following open-access materials support the selection and implementation of evidence-based mathematics intervention. Please note this is not an exhaustive list; it is a sample of resources that may be helpful in expanding and applying what you learned from the webinar.

WHAT WORKS CLEARINGHOUSE PRACTICE GUIDES

The webinar overviewed the What Works Clearinghouse (WWC) practice guide, [Assisting Students Struggling with Mathematics: Intervention in the Elementary Grades](#). For a synopsis, see the [Practice Guide Summary](#). Practice guides include recommendations for educators and schools based on research, practitioner experience, and expert opinions for various ages and content areas (see [WWC Practice Guides page](#)). Additional math-related practice guides include the following:

- [Teaching Math to Young Children](#)
- [Improving Mathematical Problem Solving in Grades 4 Through 8](#)
- [Developing Effective Fractions Instruction for Kindergarten Through 8th Grade](#)
- [Assisting Students Struggling with Mathematics: Response to Intervention \(RtI\) for Elementary and Middle Schools](#)
- [Encouraging Girls in Math and Science](#)

WHERE TO REVIEW EVIDENCE ON MATHEMATICS INTERVENTIONS

The [WWC Find What Works tool](#) lets you search for relevant practice guides, intervention reports, and reviews of individual studies. Basic filters include topic (e.g., STEM) and grade band; more advanced filters also can be chosen, including publication date, evidence tier, and populations (i.e., children and youth with disabilities, English learners). You can search for keywords as well.

The National Center on Intensive Intervention (NCII) tools charts help educators and families become informed consumers who can select rigorous assessments and interventions that meet their specific needs. The [NCII Academic Intervention Tools Chart](#) summarizes basic information about interventions

and the technical rigor of supporting studies. You can filter by subject (e.g., mathematics), grade band, various aspects of the intervention, and whether available data have been disaggregated by race/ethnicity, socioeconomic status, or language status.

OTHER MATHEMATICS INTERVENTION RESOURCES

NCII's [Mathematics Sample Lessons to Support Intensifying Intervention](#) assist special educators, mathematics interventionists, and others working with students who struggle with mathematics. These supplemental lessons employ research-based instructional principles to intensify and individualize mathematics instruction and intervention. Resources and lessons are organized according to six skill areas: number system counting, basic facts, place value concepts, place value computation, fractions as numbers, and computation of fractions.

NCII, in collaboration with the University of Connecticut, the National Center on Leadership in Intensive Intervention, and the CEEDAR Center, developed the [Intensive Intervention in Mathematics Course Content](#). The course includes eight modules for faculty and professional development providers and includes slide decks and workbooks.

The [IRIS Center Resource Locator](#) includes a wide variety of self-paced professional development resources, such as modules, activities, briefs, and videos. You can filter by topic (e.g., mathematics) and resource type. As of October 2024, there are 55 mathematics resources, including eight modules (four of which are available in Spanish), 31 information briefs, 10 video vignettes, three case studies, two activities, and an interview.

The [MSTAR Interventions](#) from the Meadows Center for Preventing Educational Risk provide research-based mathematics intervention lessons for elementary and middle school students, with additional activities for students requiring more practice. Lessons address equivalent fractions, ratios and rates, multiplication and division facts and patterns, and proportionality.

WHERE CAN STATE EDUCATION AGENCIES GET MORE HELP?

If you work at a state education agency and would like support with your efforts to improve mathematics instruction and intervention for students with disabilities, please reach out to your NCSI technical assistance liaison. Contact information for each state's liaison is available at <https://ncsi.wested.org/resources/ncsi-ta-facilitators/>. You also can submit a question or request for support through our [Ask the NCSI web form](#).