

Mathematics Intervention Toolkit: A Professional Development Course

The **Mathematics Intervention Toolkit** provides leaders and teachers with powerful resources to learn about and implement evidence-based strategies in their classrooms, schools, and districts. This free toolkit focuses on the recommendations of the What Works Clearinghouse (WWC) Practice Guide *Assisting Students Struggling with Mathematics*. A key component of the toolkit is a high-quality professional development (PD) course that is specifically designed for mathematics intervention teachers in grades 3-6.



Getting to know the course

The course includes an introduction and five modules, each focusing in depth on a research recommendation: Mathematical Language, Representations, Number Lines, Word Problems, and Systematic Instruction. The modules provide examples and engaging activities on high priority mathematics topics such as fractions.

Goals of the course

- Build knowledge of the Practice Guide’s recommendations for supporting students struggling with mathematics.
- Build knowledge of how to implement evidence-based strategies effectively.
- Plan and implement strategies with students in math intervention.
- Collaborate in using strategies, sharing successes and challenges, and strengthening implementation.

“It is really relevant and helpful to have PD that is specific to the math interventionist role.”

– Math Intervention Teacher

What do teachers do in the course?

The course uses a hybrid format to combine the flexibility of online learning with collaborative professional learning community (PLC) sessions and classroom implementation. The modules actively engage teachers in learning about the recommendations, doing mathematics activities that incorporate evidence-based strategies, watching and discussing videos, and planning and implementing ideas with their students.



How does the course support teachers in using strategies with students?

The PD course provides ready-to-use instructional routines designed to be easily integrated into any intervention program. Each routine incorporates evidence-based strategies from the recommendations and can be tailored for different mathematics topics. The course includes videos of intervention teachers using these routines with students.

What resources are provided?



Online component



Participant workbooks



Facilitator guides and slides



Instructional routines to use with students



Videos of intervention classes



What are teachers and leaders saying about the course?

“Having professional development that’s very specific for the math interventionist is so important. If math intervention is effective and it’s going well, students will be able to better access the grade level curriculum. Building a very strong foundation is so important for later success.”

– Assistant Principal

“I would definitely recommend this course to math interventionists and upper elementary math teachers. The strategies presented are all research-based best practices, and the routines all supported the recommendations.”

– Math Intervention Teacher

“I loved trying new routines and thinking about how to incorporate them into my practice on a regular basis. I think this is a great and useful PD for intervention teachers.”

– Math Intervention Teacher

To access the toolkit online, scan this QR code with your phone or use the URL: <https://ies.ed.gov/ncee/rel/math-support-grades-3-6>



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