

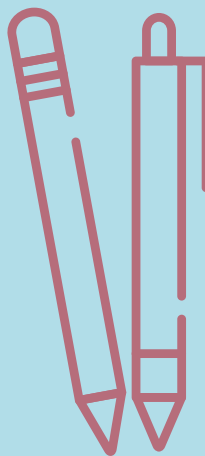
# Multisensory Math I: The Orton-Gillingham Approach

June 24-28, 2024  
9:00 am - 3:30 pm



## What is the Multisensory Math Approach?

Based on the Orton-Gillingham approach, **Multisensory Mathematics** applies the research-based Concrete-Representational-Abstract (CRA) approach to teaching mathematics as advocated by the National Math Panel and the NCTM. Concepts and skills are taught systematically from simple to complex with review and reinforcement to develop mastery. New information is taught through visual, auditory, and tactile kinesthetic modalities to ensure students form a deep conceptual understanding of mathematical operations and language.



## Program Directors

**Matthew Buchanan & Catherine McKenzie**  
Multisensory Math Qualified Instructors  
Key Learning Center Practicum Supervisors  
Key School Multisensory Math Teachers

Key's Multisensory Math training is presented by Key Learning Center's Certified Multisensory Math Instructors. It is offered in coordination with Marilyn Zecher. Marilyn developed the Multisensory Math approach based on the principles of Orton-Gillingham. She is a certified Academic Language Therapist, national presenter, and instructor of Multisensory Math courses. Learn more about Marilyn at:

[www.marilynzecher.com](http://www.marilynzecher.com)

## Cost

**Course fee:** \$975

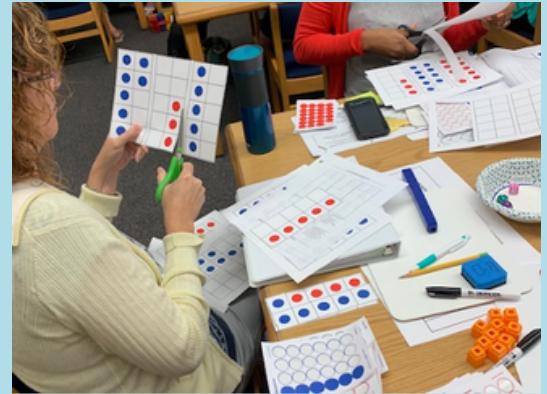
Includes Math Manipulatives, Handouts and Activities designed by Marilyn Zecher and Key School Math teachers

**Continuing Education Credits** 3.0 CEU

*Option to enroll in a yearlong supervised Multisensory Math Practicum following the course*



Course participants learn hands-on, applicable methods for teaching mathematical concepts to their students. Participants learn to use manipulatives effectively to reinforce understanding, aid memory, and enhance performance for all students. Strategies for helping students learn and retrieve math facts are stressed as well as structured procedures for computational accuracy. Participants learn to design and implement lesson plans that introduce new concepts in a multisensory, sequential, effective manner. This approach is especially effective with students with language-based learning differences, dyslexia, and ESL learners. The multisensory math approach is effective for initial instruction as well as remedial work at all levels and is compatible with all curricula and programs. Using this approach, skills and concepts are taught with ample review and reinforcement and are presented through all modalities (auditory, visual, kinesthetic).



## What will you gain from this training?

A direct impact on your teaching philosophy and approach:

- An understanding of the importance of explicitly teaching the "language of math"
- Strategies to adapt your curriculum to a multisensory math approach
- Ideas for lessons, games, activities, and strategies that make math concepts accessible to elementary age students
- Guided instruction to understand the parts of the Key Learning Center Multisensory Math Lesson Plan and an opportunity to plan and implement a demonstration lesson with feedback

Knowledge of **Concrete, Representational, Abstract (CRA)** levels of understanding:

- How to design, manage, and use manipulatives
- How to review and reinforce math concepts using Auditory, Visual, and Kinesthetic modalities
- Use of manipulatives to demonstrate concepts related to the **Big 5** - Numbers & Operations, Geometry, Data Analysis, Algebra, and Measurement at each level of mathematical understanding
- Focus on explicit instruction of numeracy, place value, addition and subtraction, multiplication and division, fractions and decimals

Questions?  
email Carrie Erb  
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