



Mathematics Professional Development Summary Sheet

Cost: \$900.00 per day, \$550.00 per half day plus presenter mileage and printing cost for materials. Contact us for quotes on out of state rates.

Early Mathematical Thinking and Response to Intervention: EMT is a set of diagnostic assessment tools to uncover students' level of thinking in mathematics and guide instruction. Sessions assist teachers in becoming familiar with the tool and the research behind it. Sessions then focus on linking the tool to district-wide plans for Response to Intervention.

Mathematical Content and Pedagogy: 3 hour sessions that enhance teachers' understanding of mathematical content, research on how students learn mathematics, and best instructional practices. Modules include Number Sense, Place Value, Addition / Subtraction; Multiplication/Division; Data and Statistics; and Algebraic Reasoning.

Investigations in Number, Data, and Space: Workshops provide training in the implementation of *Investigations* math curriculum. Formats can include grade level introductions to specific units or cross grade level topics, such as review and practice, leading classroom discussions, and assessment.

Connected Mathematics: Workshops provide training in the implementation of the *CMP2* math curriculum. Formats can include grade level introductions to specific units or cross grade level topics, such as Classroom Management, Review and Practice, and Assessment.

Differentiated Instruction: Workshops sessions can be tailored for individual school or district settings. Instructional strategies based in research on best practice designed to meet the needs of diverse student populations. Particular emphasis on the language of mathematics and strategies for guiding effective mathematical discussions.

Alignment to Standards: Three-hour sessions that examine alignment to state and local mathematics standards including Maine's *Learning Results* and NECAP grade level expectations.

Professional Learning Communities: Facilitation available for study groups investigating various topics in mathematics, including book studies.

Online Book Study: 4-6 week book studies facilitated by MMSA staff. Materials include study agenda, weekly prompts for online discussion, reading assignments, and suggestions for classroom application.

Classroom mentoring: MMSA staff will visit classrooms with a focus on best practices. Includes pre- and post-observation meetings with classroom teachers.

Curriculum Topic Study: Curriculum Topic Study (CTS) helps K-12 educators deepen their understanding of the important mathematics topics they teach. CTS builds a bridge between state and national standards, research on students' ideas in science and mathematics, and opportunities for students to learn science and mathematics through improved teacher practice. Teachers can explore in depth specific topics such as numbers and operations, algebra, geometry, measurement, data analysis, etc.

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