

# Teaching Math Through Problem Solving

Engaging, Relevant, Hands-On Experience that Promotes Thinking and Reasoning

**Target Audience:** Math Teachers & Coaches

**Grade Levels:** K–2, 3–5, 6–8, K–5

This course provides teachers with a firsthand experience of learning mathematics through problems solving. Through this experience, participants are introduced to approaches and strategies to help students build new mathematical knowledge and use a range of problem-solving strategies. Throughout the course, teachers experience and learn how to provide a classroom environment that encourages students to explore, take risks, and share their thinking.

This course will enable participants to:

- Experience a variety of ways to organize the classroom—whole-class, small-group, and individual learning
- Focus on problem solving in all areas of the math curriculum, including number and operations, geometry, measurement, algebra, data analysis, and probability
- Examine problem-solving activities and investigations that develop understanding
- Identify and analyze strategies to develop number sense that enhance computational efficiency
- Understand how manipulative materials can be used to support learning

*Math Solutions consulting, courses, and coaching are offered onsite at your school or in Your district based on a schedule convenient for you and your team.*

## Math Solutions courses, consulting and coaching all incorporate our Guiding Principles:

- Teachers KNOW the math they need to teach. They know it deeply and flexibly enough to understand various solution paths and students' reasoning
- Teachers understand the conditions necessary for learning, what they need to provide and what students must make sense of for themselves.
- Teachers understand each student's strengths and weaknesses, content knowledge, reasoning strategies, and misconceptions.
- Teachers have the expertise to make math accessible for ALL students, to ask questions that reveal and build understanding, and help students make sense of and solve problems.

Math Solutions has been transforming instruction for almost 30 years by focusing exclusively on the highest-quality mathematics professional development, coaching, consulting and resources.

### Bring Math Solutions to Your School or District

Math Solutions looks forward to partnering with you to help you meet your Common Core goals. Contact us today to speak with one of our Education Consultants.

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