

**Math for K-8 Teachers**

- ♦ Builds concepts, skills, and strategies
- ♦ Supports Common Core State Standards
- ♦ Promotes a deeper understanding of math



Professional Learning for All Educators

Beacon Educator’s math program consists of four in-depth courses that provide close examination of math concepts leading to deep conceptual understanding for students in grades K-8. Each course offers classroom examples for a coherent curriculum that is focused on best practices and research-based instructional strategies including Van de Walle and Webb’s Depth of Knowledge. The Common Core State Standards for Math and the Standards of Mathematic Practice are explored.

These courses are designed to assist teachers in transitioning to non-traditional pedagogies such as active learning, collaborative/cooperative learning, and the encouragement of student participation and involvement in the learning experience.

Number Concepts	24 pts.	Learn strategies for teaching whole numbers, place value, fractions and decimals, and estimation and problem solving. Investigate and practice multiple strategies for problem solving.
Number Operations	20 pts.	Investigate strategies for proficiency in number operations, computing fluency, computing with fractions, and computing with decimals. Practice problem solving using number operations to make real-world connections.
Space and Shape	24 pts.	Explore problem solving using two-dimensional and three-dimensional shapes. Identify strategies for teaching accurate measurement, estimation of measurement, and real-world problem solving.
Algebraic Thinking	20 pts.	Make connections between patterns and functions. Explore mathematical models and strategies to increase understanding of quantitative and qualitative relationships, including problem solving using the analysis of change.

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