



## Methodology

*This class will include the following:*

- hands-on learning
- cooperative group work
- reflective learning responses
- participation with other class members and instructors
- reading of text and other publications

## Course Overview

### *Day 1 Overview and Activities:*

Teachers and instructional leaders will build understanding of what standards-based instruction is, familiarize themselves with CCSS for Number and Operations in Base Ten and Operations and Algebraic Thinking and gain understanding of mathematics as conceptual understanding. We will explore the developmental progression of how students learn addition and subtraction and build fluency and secure place-value understanding. Teachers will be taught a variety of strategies to build understanding. The afternoon of Day 1 will be dedicated to planning instructional lessons and activities to support the growth of students at all levels of development in addition and subtraction of whole numbers.

### *Day 2 Overview and Activities:*

Day 2 will look very similar to Day 1 with the shift of focus to multiplication and division. Teachers at all grade levels will benefit gaining understanding of the development of numeracy in all four operations so that they can intervene and enrich learners within their classrooms. We will explore developmental appropriate activities to support fluency of multiplication and division of single and multi-digit numbers. Building fluency is much more than rote memorization of facts and Day 2 will support teachers with resources, tools and activities to teach the concepts and strategies for multiplication and division.

### *Day 3 Overview and Activities:*

Day 3 will build upon the content learned in Days 1 and 2 through the investigation of instructional activities to support student learning and understanding of numeracy and fact fluency. The first half of the day will be spent as a make and take workshop for teachers to create, organize and plan instructional activities and lessons appropriate for their grade level needs. The resources and activities introduced and modeled in Days 1 and 2 will give participants an idea what materials will be needed. The second half of the day will focus on formative assessment practices FOR learning and explore organizational systems and practices to efficiently monitor student progress.

### *Day 4 Overview and Activities:*

The focus for the last day of the workshop will be the use of Math Talk, planning differentiated instruction, exploring the components of Guided Math and Math Workshop. Teachers will select a lesson or activity to tier and/scaffold to meet the needs of a variety of developmental levels. Through modeling and cooperative group work, teachers will develop expectations and a rubric to implement effective math talk practices in their classroom. The workshop will conclude by exploring and discussing the components of Guided Math instruction and components of running a math workshop to meet the individual needs of students. The main outcome of the day will have teachers evaluating and analyzing the ways in which their current instructional resources support the development of numeracy and have a plan for what each teacher's math block of instruction will look like for the coming school year.

**Cost:** \$300.00 per person for 2016-17 CESA 8 CIA or Literacy Center Member School Districts.

\$500.00 per person for all other participants

**Register online at [www.myquickreg.com](http://www.myquickreg.com).**