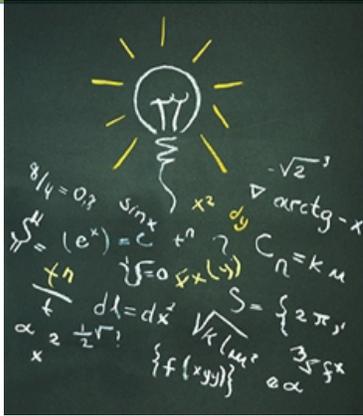


# Preparing All Students for Success: Teaching and Learning Mathematics Under Common Core

Associates in Learning and Leadership (ALL) Workshops



## Workshop Overview

As our knowledge of effective teaching and learning has exploded in recent years, the paradigm of mathematics instruction is shifting in a way that gives new opportunity to the vision of universal learning and success in math.

Such a goal gives all students the opportunities for extended coursework, education, jobs and careers, and life long knowledge and skills. This paradigm recognizes the need for a strong content background while also developing strong thinking and writing skills. It is also the foundation for the **Common Core State Standards in Mathematics (CCSSM)** and the state assessment programs.

Participants in our professional development activities will gain an understanding of and some experiences in these changes and the research supporting them, and some experiences in how to implement them.

## Who Should Attend?

All K-12 schools and districts will benefit from this workshop. Attendees may include administrators, and single-subject, multiple-subject, and special ed teachers. Pending your selection of workshop formats, the focus can be on increasing the effectiveness of the math program for all students, preparing for the implementation and assessment of the CCSS in mathematics, implementing STEM curricula, or any combination of these.

## Learning Outcomes for Attendees

As a result of participating in this workshop, participants will:

- Understand the paradigm shift that the Common Core State Standards in Mathematics represent, including the Standards for Practice, and how successful implementation impacts student engagement, learning, and achievement.
- Learn how this paradigm shift increases the participation and success in math classwork and college and career opportunities for all subgroups, including girls, underrepresented groups, low achievers, English Language Learners, and SPED students.
- Understand the research supporting this philosophy, including effective teaching and learning, differentiated instruction, content literacy, and brain targeted teaching.
- Understand the changes in assessment and how to incorporate this new focus on mathematical modeling, content literacy, and learner-centered instruction into your daily, unit, and long term planning.

## Customized Workshop Formats

Workshops can be customized to meet the specific needs of your school or district. To extend effectiveness beyond the single workshop, we use a collaborative approach, including Lighthouse Teachers and Peer Coaching. Choose from the following formats:

### ◆ Introductory 2-3 hour workshop that addresses the following questions:

- What are the Common Core State Standards in Mathematics and how are they different from previous standards?
- What are the advantages and challenges of implementing CCSSM?
- What are the basic components to planning and implementing the new paradigm of mathematics instruction? (Introduction to the Professional Development training)

### ◆ Intensive Mathematics Teaching and Learning Workshops (1-3 days)

Participants are trained in how to plan for and implement the Standards for Mathematical Practice, which are the foundation of the CCSSM. Themes include inquiry, mathematical modeling, engaging scenarios, content literacy, role of technology, and assessment. Participants are also trained in planning and implementation strategies such as peer coaching and differentiating instruction.

### ◆ On-Site Development and Support

On-site support can be arranged for classroom observations and individual / small group conferencing. Follow-up workshops, faculty meetings, and department meetings can be implemented, as needed. Online communications are also utilized. In addition, teacher participants are trained in peer coaching to provide in-house support and to be Light House Teachers to build capacity beyond their own classrooms.



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