MEETING THE MATHEMATICS CHALLENGES OF THE COMMON CORE (ELEMENTARY)

(grade levels, content, & length vary by location)

For mathematics teachers in grades K through 5, math coaches, curriculum coordinators, principals, supervisors, curriculum committee members, school-based management team members and special educators.

To meet the demands of the Common Core State Standards for Mathematics, this institute will provide participants with knowledge and understanding of the instructional shifts in the standards and how the Standards for Mathematical Practices play an integral role in driving a vision for instruction. Writing to learn and writing to construct viable mathematical arguments and critique the reasoning of others are the main focuses of this workshop. Through rich mathematical tasks, participants will experience practical strategies and techniques to help their students gain writing fluency, become comfortable thinking on paper, and develop essential writing skills they need for future academic success. Most specifically, the strategies and learning tasks presented will help teachers make necessary shifts in instruction and meet the literacy demands of the Common Core.

PARTICIPANTS WILL LEARN HOW TO . . .

- Engage in the Standards for Mathematical Practices through rich problems
- Use writing before, during, and after rich problem-solving tasks
- Engage and motivate students with easy-to-use writing techniques that draw out and reinforce what they already know, help them represent their solution pathways, and show them how to construct viable mathematical arguments and critique the reasoning of others
- Identify and learn vocabulary words that will strengthen students’ mathematical writing responses
- Use questioning strategies effectively
- Use strategies and student work for making the shift towards effective formative assessments that drive best-practice instruction
- Choose effective differentiated mathematics lessons that integrate real-world problems and the literacy standards of the Common Core

NOTE: A graduate credit option is available for our multi-day professional development.