



CORE MATH[®] Academies, Workshops, and On-Site Implementation

CORE's math experts provide teachers and school leaders with the knowledge, skills, and support to effectively implement a schoolwide math program that works and enables students to achieve success in math. Based on the current research and findings from the National Mathematics Advisory Panel, the National Research Council, and other prominent mathematics researchers, the CORE Math Academies, workshops, and subsequent on-site implementation support will equip your teaching and coaching staff with the tools needed to meet state and district mathematics standards more effectively.

CORE Math Academy

The CORE Math Academy is designed to increase mathematical content understanding and best practices for helping students become mathematically proficient and meet important summative outcomes.

Based on the current research and findings from the National Mathematics Advisory Panel, the National Research Council, and other prominent mathematics researchers, the CORE Math Academy focuses on the critical topics that pose challenges for many students, particularly those who are behind in mathematics achievement.

Who should attend?

Educators, math coaches, principals, and administrators

Participant Outcomes:

- Understand best practices for improving student proficiency in selected topics.
- Recognize and resolve student misconceptions
- Understand math concepts and the connections between concepts and procedures.
- Identify mathematical language and how to develop its use in students.
- Understand the use of a mathematical discourse to promote engagement and deep processing.
- Learn efficient strategies for connecting visual models to numerical representations through student engagement, mathematical reasoning, and making mathematics explicit.

Elementary School Topics Include:

Numbers and Operations
Multidigit Operations
Fractions
Multiplicative Thinking
Geometry and Measurement

Middle School Topics Include:

Multidigit Operations
Fractions
Multiplicative Thinking
Geometry and Measurement
Entering Algebra

High School Topics Include:

Fractions and Rational Numbers
Ratio, Proportion, and Percent
Algebra and Solving Equations
Algebra and Functions
Geometry

Mathematics Workshops

Program Planning: Connecting Objectives, Assessments, and Key Topics

This workshop is designed to prepare teachers for coherent and effective instruction by focusing on the connections between objectives, assessments, and key math topics for nine or more weeks of instruction.

Intensive Lesson Study: Learning About Teaching Through Intensive Study of Selected Key Lessons

Intensive lesson study leads educators to systematically analyze their teaching practice in order to understand what aspects best influence learning. Teachers and other educators work in small groups to plan, observe, critique, and revise a lesson.

Audience: Administrators, all content-area teachers, coaches, and specialists **Levels:** K-12



Mathematics On-Site Implementation

Professional development research has shown that in order for effective mathematics instruction to take place, site-based follow-up is vital. CORE includes on-site job-embedded support to ensure practitioners are implementing their math instruction well and using the knowledge gained during Math Academy sessions. The focus of site-based work includes refining lessons, improving the use of the selected math curriculum, and reviewing concepts learned in the Math Academy, as well as analyzing student data.

The specific needs of each school/district will shape the site-based work; however, the following activities are included:

- Data analysis/needs assessment
- Mentoring and coaching
- Materials review and selection
- Organization and scheduling
- Program practice
- Math concept review
- Leadership and coach capacity building
- Participation in a professional learning community

Audience: District and school leadership, math coaches, classroom teachers, and specialists

Levels: K-12

Implementation Audits and Needs Assessments

The purpose of an Implementation Audit or Needs Assessment is to take the pulse of a mathematics implementation in a districtwide setting. Classroom observation is used to calibrate the status of program implementation and identify any emerging issues.

Conducted by CORE Educational Consultants alongside district and school administrators and coaches, an initial Needs Assessment/Implementation Audit requires 2-7 days depending on the size of the district/school, program levels, and distances between and among sites. Following these visits, a report is compiled and findings are presented to site and district leadership.

Audience: Principals, teacher leaders, and coaches

Levels: K-12

CORE Math Contact Information

For more information about the CORE Math Academy, workshops, and on-site implementation, please contact:

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