



CORE[®] Math Academy and On-Site Implementation

CORE offers a Math Academy to help build a solid understanding of educators' math concepts to enable 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 Academy focuses on the critical topics that pose challenges for many students. The CORE Math Academy 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

CORE's 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:

- Deep understanding of best practices for improving student proficiency in selected topics
- Improvement of mathematics pedagogy
- Enhanced mathematical understandings
- Ability to recognize and resolve student misconceptions
- Knowledge of mathematical language and how to develop its use in students
- Understanding of the use of a discourse model to promote engagement and deep processing
- Understanding of the use of models and graphic organizers to support mathematical knowledge development

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

CORE Math Academy and On-Site Implementation

Build a Solid Understanding of Educators' Math Concepts to Increase Student Learning

Mathematics Site Implementation and Lesson Study

Following the Math Academy, CORE will provide on-site support to help implement the academy content and teaching strategies.

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 Contact Information

For more information about the CORE Math Academy and On-Site Implementation, please contact:

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