PROFESSIONAL DEVELOPMENT

Whether you are new to the Mathematics in Context program, are meeting the Common Core Standards with individual MiC units, or are looking for new teaching strategies, Britannica’s Professional Development is ideal for you with flexible scheduling options! We will also gladly create customized webinars to meet your teachers’ needs.

Examples of Professional Development Available:

Recorded Webinars
- Focus on a successful transition to the Common Core Standards using portions of MiC.
- Learn strategies and hints on successfully implementing MiC in your classroom.

Customized Webinars
- Develop an in-depth implementation plan for MiC in your classroom.
- Learn effective use of formative assessment within MiC to raise student achievement.

Face-to-Face Workshops
- Examine the instructional goals of the program and explore MiC’s progressive formalization: concrete–informal–formalization.
- Develop the pedagogical strategies embedded in MiC.

Contact us for webinar and workshop schedules, customization, and pricing that fit your needs!

For more information or to order, please contact us at:
Phone: (800) 621-3900 x7059  E-mail: mic@eb.com

©2012 Encyclopædia Britannica, Inc. Mathematics in Context was developed in a collaboration between the Wisconsin Center for Education Research and the Freudenthal Institute of the University of Utrecht in The Netherlands. Britannica, Encyclopædia Britannica, and Mathematics in Context & Design are registered trademarks of Encyclopædia Britannica, Inc.
RICH Tasks  REALISTIC Contexts  Proven RESULTS

Rich Mathematics, Multiple Strategies, and Realistic Contexts That Engage All Students

• Students develop an understanding of rich mathematics by solving problems in realistic contexts that interest all learners.
• Multiple strategies are encouraged and math models developed as students move toward formalization.
• Critical thinking skills are developed through problem-based learning that challenges students to discover, explore, and understand rich math concepts.
• Pedagogy and content exemplify the Common Core State Standards for Mathematical Practices and Content.
• Student collaborative learning is encouraged and supports rich classroom discussions.

Differentiate Instruction to Reach All Learners

• Specific recommendations for intervention, advanced learners, hands-on learning, and English-Language Learners are found throughout the Teacher’s Guides amid individual lessons.
• Suggestions aid teachers in implementing the MiC pedagogy and Best Practices in their classrooms.
• Additional practice problems matching the content and providing new context are available in the student books as well as in the Companion Practice Workbooks.

Assessments to Inform Instruction

• Formative assessment opportunities are built into the lessons and clearly identified to help monitor students’ progress and to inform instruction.
• Two quizzes and a summative test for all units using MiC’s Levels of Reasoning along with scoring rubrics are provided in the Teacher’s Guides and on the ExamView disc.
• ExamView Assessment Suite has additional context-based problems written using DOK levels in multiple-choice format that can be used with the summative assessments or on their own.

Proven Results

MiC improves student performance on state tests, develops 21st Century Skills, and prepares students for their future. To view our research, please visit the “Press and Links” section of the Mathematics in Context Web site: mathincontext.eb.com.

Build Math Confidence for Middle Grades Students

Mathematics in Context (MiC) is a comprehensive mathematics program reaching students of all levels. It motivates learners from middle school to struggling Algebra 1 students. The program has been implemented by schools and districts to challenge their accelerated 5th grade students and also to prepare their 6th, 7th, 8th, and 9th grade students for the rigors of algebra.

Available in multiple formats—print, digital, and interactive—that can be purchased individually or as a whole program, the MiC program includes:

• 28 individual student titles that can be purchased separately—in print, interactive digital, and pdf format
• 28 individual teacher guides that can be purchased separately—in print and pdf format
• Companion Practice Workbooks—one per grade level (p. 6)
• ExamView® Assessment Suite (p. 6)
• Number Tools and Algebra Tools student workbooks and blackline master teacher guides (p. 6)
• Manipulative kit
• Mathematics in Context Overview
• MiC online
• Professional Development

Just ask our teachers!

“When our students are in a traditional program, they aren’t seeing how numbers are related to anything in their life. MiC gives them that connection to real life objects. It builds the bridge.”

—Instructional Coach, Christiana School District

“One parent shared that this is the first time her daughter understood math.”

—Supervisor of Curriculum and Instruction, Penn-Delco School District

Funded in part by the National Science Foundation
Grade 6

COMMON CORE SEQUENCE

MORE OR LESS
Ratios and percent problems using tape diagrams; proportional relationships by equations

MODELS YOU CAN COUNT ON
Math models for comparing and computing ratios using fractions, decimals, and percents

EXPRESSIONS AND FORMULAS
Application of algebraic expressions using properties of operations and order of operations

FRACTION TIMES
Operations with fractions including division; ordering fractions and determining equivalents

OPERATIONS
Integer operations, modeling on number lines, order of operations; coordinate systems

COMPARING QUANTITIES
Reason about and find informal solutions of systems of equations; concept of variable

FACTS AND FACTORS
Finding common factors, place value, number theory; exponential notation

REALLOCATION
Area, perimeter, surface area, and volume

DEALING WITH DATA
Display and describe data distribution; measures of center; sampling techniques

Grade 7

COMMON CORE SEQUENCE

MORE OR LESS
Ratios and percent problems using tape diagrams; proportional relationships by equations

MODELS YOU CAN COUNT ON
Math models for comparing and computing ratios using fractions, decimals, and percents

EXPRESSIONS AND FORMULAS
Application of algebraic expressions using properties of operations and order of operations

FRACTION TIMES
Operations with fractions including division; ordering fractions and determining equivalents

OPERATIONS
Integer operations, modeling on number lines, order of operations; coordinate systems

COMPARING QUANTITIES
Reason about and find informal solutions of systems of equations; concept of variable

FACTS AND FACTORS
Finding common factors, place value, number theory; exponential notation

REALLOCATION
Area, perimeter, surface area, and volume

DEALING WITH DATA
Display and describe data distribution; measures of center; sampling techniques

Grade 8

COMMON CORE SEQUENCE

MORE OR LESS
Ratios and percent problems using tape diagrams; proportional relationships by equations

MODELS YOU CAN COUNT ON
Math models for comparing and computing ratios using fractions, decimals, and percents

EXPRESSIONS AND FORMULAS
Application of algebraic expressions using properties of operations and order of operations

FRACTION TIMES
Operations with fractions including division; ordering fractions and determining equivalents

OPERATIONS
Integer operations, modeling on number lines, order of operations; coordinate systems

COMPARING QUANTITIES
Reason about and find informal solutions of systems of equations; concept of variable

FACTS AND FACTORS
Finding common factors, place value, number theory; exponential notation

REALLOCATION
Area, perimeter, surface area, and volume

DEALING WITH DATA
Display and describe data distribution; measures of center; sampling techniques

The Power of MiC—in Interactive Digital Format

Mathematics in Context Interactive is a digital mathematics curriculum reaching students of all levels in the middle grades. The dynamic features of MiC Interactive along with the realistic context motivate all learners while challenging accelerated learners to discover, explore, and understand rich math concepts.

Engage Your Students in Class and at Home

- Interactive mathematical models for number lines, ratio tables, fraction bars, percent bars, and double number lines immerse students in math topics and are easy to use.
- Sketch apps, coordinate plotters, and interactive math models appeal to all learners (and help stimulate visual learners).
- "Answer here" boxes provide students with a place to explain their thinking and answer open-ended questions.
- "Value checkers" allow students to self assess.
- Instruction for every interactive is embedded in each activity.

Teachers can use MiC Interactive on their interactive whiteboards for whole class instruction, discussion, and activities. Students can use MiC Interactive on their individual computers and even save their work. MiC Interactive supports the implementation of the Common Core State Standards for Content and Mathematical Practices by providing students with opportunities to develop conceptual understanding and by providing teachers with access to rich tasks.
Companion Practice Workbooks

A Complement to *Mathematics in Context* or Any Middle School Math Program!

- A consumable workbook per grade level.
- Organized by topic to ensure coverage.
- Multiple choice, extended response, and open-ended questions for every topic.
- Spiral review questions in each section.
- “Focus On” math topics include: absolute value; order of operations; comparing rational numbers; division of integers; formulas and equations, solving equations, and inequalities; and area, perimeter, and volume.

ExamView® Assessment Suite

The Industry-Leading Testing & Assessment Software

- Strengthen classroom assessment.
- Administer tests and practice quickly and easily.
- Differentiate assessments by using various test styles.

Number Tools and Algebra Tools

Multi-Grade Supplements

- Available as a set of blackline masters with solutions or as a consumable student workbook.
- *Number Tools* activities can be used for intervention or practice to support the development of basic skills and number sense in the areas of ratios, fractions, decimals, and percents and the connections between these representations.
- *Algebra Tools* provides materials for further exploration of algebraic concepts and skills that can be used in conjunction with any algebra series.

A Proven Summer School Curriculum Consistent with the CCSSM

Created for Students in Middle School and Up

- Use with grades 6, 7, and 8 and with struggling students in grade 9.
- The content and pedagogy are research-based.
- Math models increase conceptual understanding.
- Realistic context engages and motivates students.
- Multiple strategies address all learning styles.

Guides Teachers Through the Lessons

- Clear and concise plans for teachers reduce planning time.
- All-inclusive: all materials are provided within each lesson.
- Each lesson contains suggestions for differentiation to meet all student needs.
- Digital formats are online for use on interactive whiteboards.

**SUMMER SCHOOL IN A BOX**

*Easy to Use! Easy to Carry! Easy to Store!*

- 25 student work-texts (at one grade level)
- 1 Teacher’s Guide
- Supplies for 25 students, including pencils, grid paper, scissors, compasses, rulers, and more
- Plastic storage container
- Support for teachers, including pre- and post-tests, mid-summer benchmark test, online resources, and more

Additional student work-texts, manipulative kits, and Teacher’s Guides may be ordered separately.
PROFESSIONAL DEVELOPMENT

Whether you are new to the Mathematics in Context program, are meeting the Common Core Standards with individual M.C. units, or are looking for new teaching strategies, Britannica’s Professional Development is ideal for you with flexible scheduling options! We will also gladly create customized webinars to meet your teachers’ needs.

Examples of Professional Development Available:

Recorded Webinars
- Focus on a successful transition to the Common Core Standards using portions of M.C.
- Learn strategies and hints on successfully implementing M.C. in your classroom.

Customized Webinars
- Develop an in-depth implementation plan for M.C. in your classroom.
- Learn effective use of formative assessment within M.C. to raise student achievement.

Face-to-Face Workshops
- Examine the instructional goals of the program and explore M.C.’s progressive formalization: concrete–informal–formalization.
- Develop the pedagogical strategies embedded in M.C.

Contact us for webinar and workshop schedules, customization, and pricing that fit your needs!

For more information or to order, please contact us at:
Phone: (800) 621-3900 x7059  E-mail: mic@eb.com

©2012 Encyclopædia Britannica, Inc. Mathematics in Context was developed in a collaboration between the Wisconsin Center for Education Research and the Freudenthal Institute of the University of Utrecht in The Netherlands. Britannica, Encyclopædia Britannica, and Mathematics in Context & Design are registered trademarks of Encyclopædia Britannica, Inc.