Discovering Mathematics
Implementation Support

Professional Development that Aligns to Your Goals and Meets Your Needs

Get the Professional Development Support You Need!

For more information on these workshops, online courses, and professional development for our dynamic software, visit us online at www.keypress.com/pd or call 1-800-995-MATH (6284).
Discovering Mathematics Implementation Support

Take Full Advantage of Discovering Mathematics with Key’s Implementation Workshops

Overview
We share your commitment to your students’ growth and achievement in mathematics. And we recognize that your effectiveness in the classroom is fundamental to their success. When you adopt materials from Key, we offer support that ensures successful implementation and sustains you over time.

Discovering Mathematics Implementation Workshops
Student discovery is at the heart of the Discovering Mathematics series. Our implementation workshops will provide you with the pedagogical basis for teaching with the Discovering Mathematics textbooks and encourage you to use the many teacher support materials. Our fundamental goal is to increase your confidence and give you a vision for how to use these books successfully in your classroom.

Written by national leaders in mathematics education and led by highly trained presenters, these workshops delve deeply into specific topics—from instructional strategies to technology integration and authentic assessment. Choose from a wide variety of workshops to build a program that best fits your implementation needs.

Discovering Mathematics Orientation Session
Length: 1–3 hours
This session provides an overview of the Discovering Mathematics textbooks and teacher support materials. In this session, you will:

- Become familiar with the features of your textbook’s student and teacher editions
- Explore the support materials provided in your Teacher Resource Package
- See how to use the Test Generator and Worksheet Builder
- Learn how to access online textbooks and teacher resources at Key Online

Instructional Strategies
Length: 1 day
Authors: Richard Parr and Jackie Sack—Rice University School Mathematics Project

Become familiar with the instructional strategies you can use with the Discovering Mathematics series. In this session, you’ll examine how to:

- Introduce and reinforce mathematical concepts through investigations
- Manage cooperative learning groups
- Integrate successful questioning strategies
- Boost learning through effective homework

Development of Mathematics
Length: 1 day per textbook
Authors: Elizabeth DeCarli and Timothy Pope—Key Curriculum Press

Learn how the mathematical content is developed in Discovering Mathematics. In this session, you will:

- Use investigations to deepen your understanding of the mathematics in the series
- Get an overview of the conceptual and skills progression your students will experience over the course of the school year

Instructional Leadership for Discovering Mathematics
Length: 1/2 day
Author: Ted Hull—Hull Educational Consulting

Learn how to successfully monitor and support teachers as they implement their Discovering Mathematics curriculum. In this workshop for campus and district leaders, you will:

- Become familiar with inquiry-based learning and how this approach forms the basis of the Discovering Mathematics series
- Discuss cooperative learning and its place in the Discovering Mathematics classroom
- Develop observation tools to facilitate the monitoring and support of curriculum implementation
- Learn intervention strategies to assist teachers who find implementation challenging
- Identify required and recommended classroom technology for successful implementation

Technology Integration Workshops
Integrating Sketchpad™ with Discovering Geometry
Length: 1 day
Authors: Richard Parr and Jackie Sack—Rice University School Mathematics Project

Explore how to use technology successfully in your mathematics classroom. In these sessions, you will:

- Experience first-hand the advantages of using technology to build conceptual mastery
- Explore how Discovering Mathematics supports the use of technology in your classroom
- Discover how specific technologies can improve learning:
  - Graphing calculators and data collection devices in Discovering Algebra
  - The Geometer’s Sketchpad® in Discovering Geometry

Integrating Handheld Technology with Discovering Algebra and Discovering Advanced Algebra
Length: 1 day
Authors: Richard Parr and Jackie Sack—Rice University School Mathematics Project

Explore how investigations can be integrated into your classroom. You will:

- Experience hands-on activities using graphing calculators and data collection devices
- Learn how to effectively monitor and support lesson implementation
- Develop understanding of the mathematics in the series
- Create a plan to integrate technology

Authentic Assessment in Discovering Mathematics
Length: 1 day
Authors: Nancy Berkas and Cynthia Pattinson—EdSights, LLC

Use authentic assessment to adjust your teaching to meet your students’ needs. In this session, you will:

- Examine principles of authentic assessment
- See how these principles are integrated into the Discovering Mathematics assessment materials
- Use rubrics that will help you assess student work, determine student conceptual mastery, and shape future instruction
- Model the analysis process
- Explore examples of successful use of the assessment tools in Discovering Mathematics

Collaborative Lesson Planning for Discovering Mathematics
Length: 1 day
Authors: Nancy Berkas and Cynthia Pattinson—EdSights, LLC

Examine research on effective lesson design and bring these proven strategies into your classroom. In this session, you will:

- Explore research on effective lesson design
- Examine state and/or local standards to determine specific learning objectives
- Participate in model lessons
- Review student work in order to create effective lessons
- Work with colleagues to develop lessons and units to use in your classroom
- Determine which Discovering Mathematics tools will best assist in teaching lessons and modifying instruction for GT, ELL, IEP, etc.
- Develop a tool to facilitate collaborative evaluation of lessons
- Lay the groundwork for continued collaboration

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