

Day One

Keynote • 8:30 am - 9:05 am

“Using Guided Math To Catch up Students Who Have Fallen Behind and Accelerate the Progress of All!” – Kelly Harmon

How are our students seeing, thinking, and using math concepts and skills in meaningful, tangible, and motivating ways? Let’s kick off a great two days together as we explore a multitude of Guided Math ideas to catch up those who have fallen behind and accelerate the progress of all of our K-6 students. Don’t miss this truly insightful keynote session!

MORNING SESSIONS • 9:15 am - 11:50 am

Choose **ONE** Full Morning Session OR **TWO** 70-Minute Sessions • *One mid-morning break*

Full Morning Session • 9:15 am – 11:50 am

A-1: Math Running Records: Meeting Students’ Addition, Subtraction, Multiplication, and Division Fluency Needs – *Ann Elise Record*

Incorporate Math Running Records in your Guided Math program to measure the four aspects of math fact fluency, allowing you to target your differentiated instructional response to meet the unique needs of all your students, especially those that have fallen behind. Explore the progression of addition, subtraction, multiplication, and division strategies and see videos of running records in action. Learn how to best incorporate impactful strategies, math tools, games, and activities within your Guided Math lessons and independent workstations.



First 70–Minute Morning Sessions 9:15 am – 10:25 am

CHOOSE ONE: A-2 or A-3

A-2: Keeping Students Productively Engaged While You Work with Guided Math Groups – *Mary Peterson*

Explore a wealth of classroom-proven techniques to set-up, launch and maintain differentiated workstations in a Guided Math classroom. This session addresses students’ varied learning needs within a carefully planned numeracy-rich environment. Learn timesaving ways to build independence and keep students productively engaged in differentiated math workstations while you work with small Guided Math groups.

A-3: Setting Guided Math Goals and Tracking Student Progress – *Kelly Harmon*

Students who know what they are learning and track their own mastery make greater achievement strides. Learn how to create standards-based learning targets and success criteria that help you partner with students to close the daily learning gap. Examine routines that help students know what they will be learning, what they are learning, and make vital connections to what they have already learned.

Second 70–Minute Morning Sessions 10:40 am – 11:50 am

CHOOSE ONE: A-4 or A-5

A-4: Engaging Interactive Guided Math Centers – *Mary Peterson*

Young learners and those struggling with basic math concepts need interactive and hands-on opportunities to build a solid understanding. Explore just-right math centers designed to provide your students with meaningful, independent practice opportunities. Roll up your sleeves as we view, create and play a variety of super fun, easy-to-implement games and activities perfect for use in your Guided Math centers. Whether you are teaching K-2 or have students in your classroom needing those foundational skills, your students will absolutely love using these classroom tested activities!

A-5: Organizing the Math Block to Incorporate Guided Math Instruction – *Kelly Harmon*

Learn what to do first, last and in the middle of math class to ensure lasting learning in your Guided Math-focused classroom. Gain outstanding planning tips, ideas, and routines to help you. Learn how to advance the learning of every student.

Who Should Attend

Classroom Teachers, Title I Staff, Special Education Staff, Math Specialists, and Other Educators Teaching Math in Grades K-6

“I am ready for facilitating guided math groups during my math instruction time! Thank you for such a wonderful conference!”

– Faye Hazelberg,
3rd Grade Teacher

Team Discount

ONE DAY

One Person: \$289

BOTH DAYS

One person: \$489

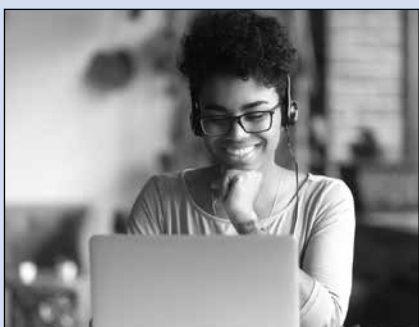
Team of 3+: \$469 per person when enrolled at the same time

Lunch break on your own • 11:50 am – 1:05 pm (A great time to network with colleagues!)

... *“Worth the time! It was a joy and a valuable learning experience.”* ...

Who is BER?

The Bureau of Education & Research is North America's leading presenter of training for professional educators. Our goal is to provide high-quality PD programs, based on sound research, with an emphasis on practical strategies and techniques that can be immediately implemented.



Online Learning

BER offers educators a wide range of online courses that are affordable, fun, fast, and convenient. BER is now offering On Demand Video-Based courses. You may earn optional graduate-level credits for most courses. See the catalog of available courses at www.ber.org/online

Day One

AFTERNOON SESSIONS • 1:05 pm – 3:35 pm

Choose **ONE** Full Afternoon Session OR **TWO** 70-Minute Sessions
One mid-afternoon break

Full Afternoon Session • 1:05 pm – 3:35 pm

B-1: Strengthen Students' Problem Solving During Guided Math Instruction

– *Kelly Harmon*

Help every student become a complex problem solver—especially when two or more steps are involved! In this session, you'll learn the key steps students can use from grades K-6 to more efficiently process and solve word problems during Guided Math. We will explore complex, yet doable real-world problems using eight different problem-solving strategies you can incorporate in your Guided Math program. Discover the strategies that will help close any gaps and accelerate the learning of ALL students.

First 70-Minute Afternoon Sessions 1:05 pm – 2:15 pm

CHOOSE ONE: B-2 or B-3

B-2: Powerful and Effective Just-Right Small Group Guided Math Lessons

– *Mary Peterson*

Learn how to most effectively organize and manage small flexible Guided Math groups based on formative assessment. Receive classroom-proven ideas for carefully planning and teaching just-right small group Guided Math lessons to meet the needs of the diverse learners in your classroom. Use powerful Guided Math small group lessons to build the confidence and competence of all your students.

B-3: Building Confident, Enthusiastic Problem Solvers in Guided Math! (Grades 3-6) – Ann Elise Record

Explore practical ways to accelerate the problem-solving of ALL your grades 3-6 students within your Guided Math lessons and leveled workstations. Make best use of concrete math tools, pictorial model representations and abstract equations to build confident, enthusiastic problem solvers. Help ALL students catch up through activities set at the appropriate level for each of your diverse students. Set the stage for accelerating ALL students' problem-solving success!

Second 70-Minute Afternoon Sessions 2:25 pm – 3:35 pm

CHOOSE ONE: B-4 or B-5

B-4: Classroom-Proven Strategies for Helping Students Master Multiplication and Division (Grades 3-6) – Mary Peterson

Prepare to be surprised at just how quickly your grades 3-6 Guided Math students will master their multiplication and division facts! Receive many highly-practical, detailed, classroom-proven activities for improving students' conceptual understanding, fluency and strategic confidence with multiplication and division. Gain a wealth of impactful, super fun multiplication and division games, lessons, projects, and strategies you can easily incorporate into your Guided Math program.

B-5: Developing Computational Fluency Through Number Talks and Number Strings – Ann Elise Record

Let's deep dive into one of the most powerful daily routines in your Guided Math toolkit. Utilize Number Talks and Number Strings to develop ALL students' understanding of the patterns in our number system. Help students who've fallen behind explore number relationships to move them beyond inefficient counting strategies to more sophisticated computational strategies. Watch as students astound you with their flexible thinking and mental math skills.

Can't Attend? Online Professional Development Options:



Related Online Courses

Related On Demand Video-Based Online Learning courses, *Using Guided Math to Strengthen Students' Math Learning*, for Grades K-2 and Grades 3-6, and other math-related courses, are available for immediate registration. To enroll, visit www.ber.org/online

Day Two

MORNING SESSIONS • 8:30 am – 11:15 am

Choose **ONE** Full Morning Session OR **TWO** 75-Minute Sessions
One mid-morning break

Full Morning Session • 8:30 am – 11:15 am

C-1: Innovative Projects: Increase Motivation, Engagement and Success in Your Guided Math Program – *Mary Peterson*

Empower your students to love and explore math across the curriculum with a variety of engaging and highly motivating math projects. These exciting projects work well across diverse math topics and are appropriate for grades K-6. In this make-and-take session we'll explore ways to incorporate a variety of engaging math projects into your Guided Math program to increase student creativity, teamwork, critical thinking, communication, and problem-solving skills.

First 75-Minute Morning Sessions 8:30 am – 9:45 am

CHOOSE ONE: C-2 or C-3

C-2: Hands-On Fractions in Guided Math – *Ann Elise Record*

Learn about how we can deepen ALL students' conceptual fraction understanding of equivalence, comparison, conversion from fraction form to mixed number form, addition, and subtraction of fractions using a variety of concrete math tools such as pattern blocks, Cuisenaire rods, non-labeled fraction tiles, and paper folding. Rather than following procedural steps that are disconnected from meaning, students will be using number sense strategies that enable them to arrive at accurate answers but also support their conceptual understanding of fractions and the operations as well.

C-3: Utilize Number Talks to Practice Computational Skills and Develop Mental Math Abilities – *Kelly Harmon*

Engage students in daily number talks that help them practice computational skills and develop mental math strategies, perfect for Guided Math. Learn how to develop standards-specific number talks that incorporate student interests, strengthen their skills, and help all students achieve, even those who've fallen behind.

Second 75-Minute Morning Sessions 10:00 am – 11:15 am

CHOOSE ONE: C-4 or C-5

C-4: Building Confident, Enthusiastic Problem Solvers in Guided Math! (Grades K-2) – *Ann Elise Record*

Explore practical ways to respond to the unique problem-solving needs of your grades K-2 students excel to the next level of learning. Learn how to make best use of concrete math tools, pictorial model representations and abstract equations to increase the learning of ALL students from struggling to accelerating. Learn strategies to develop students' conceptual understanding of the underlying structures within addition and subtraction problem types. Set the stage for students' problem-solving success.

C-5: Using Children's Literature to Engage Students in Problem Solving Activities – *Kelly Harmon*

Children's books provide a perfect starting point for engaging students in authentic problem solving. In this session, explore literature matched to math standards and great ways to use manipulatives and drawing strategies during Guided Math to help students think through complex problems.

Lunch Break • 11:15 am – 12:30 pm • Lunch Break (on your own)

On-Site Training

Conferences like this one along with many other topics can be brought to your school or district. Please view all of our On-Site PD options at www.ber.org/onsite or call 877-857-8964 to speak with an On-Site Training PD Consultant.

Comprehensive Resource Handbook

You will receive an extensive digital resource handbook, specifically designed for this conference. Included in the handbook are resource materials for ALL conference sessions, even those you don't attend. These materials include:

- Timesaving, teacher-friendly ideas for implementing Guided Math groups and managing math centers
- Key ideas and specific tips for setting up and managing Guided Math groups
- Detailed components of strong Guided Math group lessons

Registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.

"The sessions were great; I had a hard time just choosing just one to go to each time period. Thank you to the presenters for sharing your knowledge!"

– Jodie Yantachka, Instructional Coach



Conference Locations & Hotel Accommodations



COLUMBUS offers a great variety of area attractions, including the Columbus Zoo and Aquarium, Franklin Park Conservatory, COSI Museum, and Ohio Stadium.

Conference Location and Overnight Accommodations:

Crowne Plaza North
(614) 885-1885

Book your overnight accommodations by October 31, 2021 to receive the special rate of \$102 (Single/Double) plus tax, rates subject to availability, to receive this special rate under "Bureau of Education & Research." Call reservations at (614) 885-1885 or book online at <https://bit.ly/2TDC7Un>, Group Code: BER



The greater **CHICAGO** area offers a diverse array of sightseeing opportunities and dining and shopping options at the famed Magnificent Mile, Water Tower Place, and Navy Pier.

Conference Location and Overnight Accommodations:

DoubleTree - Alsip
(708) 371-7300

Book your overnight accommodations by October 19, 2021 to receive the group rate of \$132 plus tax (Standard Room), rates subject to availability. Call reservations or book online at <https://www.chicagoalsip.doubletree.com>, and use Group/Convention Code : BE8

Day Two

AFTERNOON SESSIONS • 12:30 pm - 3:10 pm

Choose **TWO** 75-Minute Afternoon Sessions
One mid-afternoon break

First 75–Minute Afternoon Sessions 12:30 pm - 1:45 pm

CHOOSE ONE: D-1, D-2 or D-3

D-1: Dynamic Whole Group Guided Math Lessons – *Mary Peterson*

Learn the key components of powerful and appropriate warm-up activities, lessons and guided practice opportunities to successfully teach grade level skills in heterogeneous whole group Guided Math settings. Receive dynamic and exciting ideas for enhancing your Guided Math instruction by incorporating the most appropriate whole group lessons for teaching skills to facilitate maximum carryover into your small group Guided Math lessons.

D-2: Powerful Daily Routines That Deepen Reasoning Abilities for All Learners – *Ann Elise Record*

Incorporate a wealth of classroom-tested daily routines that develop students' number sense and reasoning abilities. Discover whole and small group routines that provide rich opportunities for Guided Math students to discuss their thinking, critique the reasoning of others, make connections between various math concepts, use precision in their math vocabulary, and develop flexible use of strategies. We'll explore routines like Number Talks, Splat! Which One Doesn't Belong and more!

D-3: Terrific Math Games for the Rest of Your Class While You Teach Guided Math Groups – *Kelly Harmon*

Explore how to set up games that are perfect for centers or stations. Engage your learners in strategic thinking and deepen their foundational knowledge while you teach Guided Math groups. Walk away with management ideas and resources you can use to maximize success for both students who've fallen behind and those ready for new challenges.

Second 75–Minute Afternoon Sessions 1:55 pm– 3:10 pm

CHOOSE ONE: D-4, D-5 or D-6

D-4: Empowering Writing and Vocabulary Guided Math Strategies to Strengthen Conceptual Understanding – *Mary Peterson*

Receive highly effective writing strategies to deepen student learning, build vocabulary knowledge and help students gain new perspectives in Guided Math. Explore the six concrete steps for teaching math vocabulary and several engaging, effective math vocabulary games. You'll leave this dynamic session with numerous, ready-to-implement writing and vocabulary strategies for creating a language-rich Guided Math environment.

D-5: Cuisenaire Rods: Help Your Guided Math Students Think Strategically – *Ann Elise Record*

Whether students are struggling or ready for new challenges, Cuisenaire rods are highly versatile tools perfect for our students' entire math journey. Enhance students' ability to visualize the use of strategies. Gain strategies based on decomposition and friendly numbers that make calculation more efficient. Learn practical ways to use Cuisenaire rods both in your Guided Math lessons as well as independent workstations to move your students to higher thinking levels.

D-6: Increase Engagement and Rigor in Your Guided Math Program – *Kelly Harmon*

Explore ways to engage your students' mathematical reasoning during computation and problem-solving practice. Learn how to set up challenging questions and situations to give access to rich mathematical thinking to all students whether they are working on closing a gap or at an advanced level. Leave with proven strategies and activities for stretching your students' mathematical reasoning in small group and whole group lessons.