

Day One

Keynote • 9:00 – 9:30 am

“Keeping Guided Math Real!” – 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 for engaging our K-6 students in real world problem solving applications. We will journey together to discover a world of applications for both in-person and online teaching. Don’t miss this truly insightful keynote session!

MORNING SESSIONS • 9:40 am – 12:10 pm

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

Full Morning Session • 9:40 am – 12:10 pm

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 whether teaching in-person or online. 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 9:40 – 10:50 am

CHOOSE ONE: A-2 or A-3

A-2: 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 groups. Gain outstanding planning tips and ideas designed to help you maximize the impact of your math instruction and students’ learning in your Guided Math classroom whether teaching online or in-person.

A-3: 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 whether online or in-person. Learn timesaving ways to build independence and keep students productively engaged in differentiated math workstations while you work with small Guided Math groups.

Second 70–Minute Morning Sessions 11:00 am – 12:10 pm

CHOOSE ONE: A-4 or A-5

A-4: Sports Data: Excite and Engage Your Guided Math Students! – Kelly Harmon

Explore ways to use your Guided Math students’ favorite sports teams to engage them in exciting computation and problem-solving practice. Learn how to use team and player data to warm up your class and provide independent practice to meet your rigorous expectations. Leave with a proven plan for winning your students over, while increasing their practice opportunities and strengthening their math skills whether online or in-person!

A-5: Engaging Guided Math Centers Perfect for Students in Grades K-2 – Mary Peterson

Young learners need interactive and hands-on opportunities to build a solid understanding of basic math concepts. Explore just-right math centers designed to provide your primary grades 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 grades K-2 Guided Math centers. Your students will absolutely love them whether learning online or in-person!

Who Should Attend

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

“I learned so much and can’t wait to start practicing. I feel empowered!”

– Amy Ramon,
2nd Grade Teacher

Team Discount

ONE DAY

One Person: \$289

BOTH DAYS

One person: \$479

**Team of 3+: \$459 per person
when enrolled at the
same time**

Lunch break on your own • 12:10 – 1:10 pm (A great time to network with colleagues!)

... “Energetic, engaging, many hands-on activities. I’ll be back!” ...

ABOUT BER LIVE ONLINE CONFERENCES

With the current health challenges, all BER in-person PD events are currently being presented in a Live Online format:

Outstanding Instructors

All programs are led by outstanding BER national trainers

Extensive Digital Resource Handbooks

You'll have access to an extensive digital resource handbook before, during and after your conference

Highly Interactive

You'll be able to ask questions in real time and interact with the instructor and other participants

Program Guarantee

As we have for 43 years, we guarantee the high quality of our programs. If you are not satisfied, we'll give you a 100% refund.



Day One

AFTERNOON SESSIONS • 1:10 – 3:40 pm

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

Full Afternoon Session • 1:10 – 3:40 pm

B-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 whether teaching online or in-person. 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 70-Minute Afternoon Sessions 1:10 – 2:20 pm

CHOOSE ONE: B-2 or B-3

B-2: Utilize Number Talks to Practice Computational Skills and Develop Mental Math Abilities – *Kelly Harmon*

Engage students online and in-person 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 and cumulative review of the math standards.

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

Explore practical ways to respond to the unique problem-solving needs of 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. Learn strategies to develop students' conceptual understanding of the underlying structures within multiplication and division problem types whether teaching online or in-person. Set the stage for students' problem-solving success!

Second 70-Minute Afternoon Sessions 2:30 – 3:40 pm

CHOOSE ONE: B-4 or B-5

B-4: 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 whether teaching online or in-person. 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.

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 students' understanding of the patterns in our number system. Help students 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 whether online or in-person.

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 • 9:00 – 11:40 am

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

Full Morning Session • 9:00 – 11:40 am

C-1: Strengthen Students' Problem Solving During Guided Math Instruction – *Kelly Harmon*

Help your students become complex problem solvers—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 whether teaching online or in-person.

First 75–Minute Morning Sessions 9:00 – 10:15 am

CHOOSE ONE: C-2 or C-3

C-2: 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 whether learning online or in-person. Gain a wealth of impactful, super fun multiplication and division games, lessons, projects, and strategies you can easily incorporate into your Guided Math program.

C-3: Hands-On Fractions in Guided Math – *Ann Elise Record*

Learn about how we can deepen our 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 whether online or in-person.

Second 75–Minute Morning Sessions 10:25 – 11:40 am

CHOOSE ONE: C-4 or C-5

C-4: 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 whether online or in-person.

C-5: 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 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. 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 whether online or in-person!

Comprehensive Digital 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 whether online or in-person
- Key ideas and specific tips for setting up and managing Guided Math groups
- Detailed components of strong Guided Math group lessons



“The handbook is a great resource to reference.”

–Jen Gennux, 1st Grade Teacher

11:40 am – 12:40 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.



... “Lots of valuable information. Lots of great resources for my classroom.” ...

Day Two

AFTERNOON SESSIONS • 12:40 – 3:20 pm

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



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



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.

First 75–Minute Afternoon Sessions 12:40 – 1:55 pm

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

D-1: 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 break down math standards and expectations into discrete learning targets. Examine learning boards that help students know what they will be learning, what they are learning and make vital connections to what they have already learned whether learning online or in-person.

D-2: 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 whether teaching online or in-person.

D-3: 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 whether online or in-person. 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!

Second 75–Minute Afternoon Sessions 2:05 – 3:20 pm

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

D-4: 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 whether teaching online or in-person. 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.

D-5: 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 whether teaching online or in-person.

D-6: Cuisenaire Rods: Help Your Guided Math Students Think Strategically – *Ann Elise Record*

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 use Cuisenaire rods both in your Guided Math lessons as well as independent workstations to move your students to higher thinking levels whether learning online or in-person.