Day One

Keynote • 9:00 – 9:30 am

"Wisdom From the Most Unlikely Places" – *Steve Morris*

Great Math teaching wisdom often shows up in surprising ways. In this keynote, Steve Morris uncovers lessons learned from an unlikely source that highlight the importance of relationships, flexibility, communication, and balance. With humor and heart, Steve will set the tone for the two days ahead—leaving you inspired, energized, and ready to get the most out of the learning this conference has to offer.

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: Transform Your Teaching With AI: Practical Tools for Math Classrooms – *Steve Morris*

Curious about how AI can enhance your math instruction without overwhelming your day? Get an inside look at four powerful AI tools designed to support planning, differentiation, and student engagement. You'll see how each tool works through practical demonstrations tailored for secondary math classrooms—just enough to spark ideas and show the possibilities. A great starting point before diving deeper in later sessions.

First 70–Minute Morning Sessions 9:40 – 10:50 am

CHOOSE ONE: A-2 or A-3

A-2: Success With Teaching Integers – *Brad Fulton*

The ability to work with integers is a must for students to succeed in algebra. Too often, students miss an algebra question not because of a lack of understanding of the concepts but because of a mistake with signed numbers. We will look at four different strategies that help students make sense of integers, and we'll talk about how to integrate integer practice into our instructional plan to maximize success for students.

A-3: Assessment Strategies for Before, During and After Instruction to Support Real Time Interventions – *Beatrice Moore*

This fast-paced session will provide you with research-based practices and strategies that will allow you to assess, adapt and support students through intervention using easily collected data. The session focuses on providing students with reflective learning tools, promotion of self-regulation and monitoring, and immediate feedback from the teacher to redirect so that students are not rehearsing misinformation.

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

CHOOSE ONE: A-4 or A-5

A-4: Menu Math: A Full Course Meal for Algebraic Thinking – *Brad Fulton*

We will look at a highly successful approach to teaching seven different topics in algebra such as solving equations, combining like terms, understanding the laws of algebra, solving word problems, and systems of equations. This approach has been used from high school down to fourth grade, so if you have students struggling in algebra, they will finally understand how algebra works.

A-5: Rethinking Think-Pair-Shares for More Accountability and Interaction in Mathematics – *Beatrice Moore*

This session will reimagine the use of the "Think-Pair-Share" discussion routine to help build student's confidence in their ideas before they share them with a larger group and completely transform the way students process and engage with the content. Strategies will support increased accountability of students' discussions, use of academic vocabulary, writing and reflection opportunities to prepare for discussion, and provide the teacher with data to accurately determine mastery of the content.

Lunch break • 12:10 – 1:10 pm

"Very engaging and informative."

– Sherie Moak, Math Teacher

"Awesome conference! I have a ton of new ideas to go and use in my classroom."

– Katie Kline, Math Teacher

Team Discount

ONE DAY

One Person: $325

BOTH DAYS

One Person: $595

Team of 3+: $565 per person when enrolled at the same time

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.

Can't Attend?

Online Professional Development Options:

Related Online Courses

Two related On-Demand Video-Based Online Learning courses, *Help Your Students Who Struggle with Mathematics: Practical, Successful Strategies,* for Grades 6-12, and *Strategies for Promoting a GROWTH MINDSET to Increase Students' Perseverance, Engagement and Success in Your MATH Classroom,* for Grades 6-12, are available for immediate registration. To enroll, visit www.ber.org/online

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: Teaching Linear Functions With Understanding Instead of Tears – *Brad Fulton*

Students as young as 4th and 5th grade can understand linear functions using this multi-representational approach that helps students of all learning modalities access this crucial content. Students will use visual models, graphs, tables, linguistic and algebraic models. Their understanding will be cemented as they see the connections between these different representations. Concepts of slope and y-intercept become easy for all students who then go on to demonstrate mastery with linear functions.

First 70–Minute Afternoon Sessions 1:10 – 2:20 pm

CHOOSE ONE: B-2 or B-3

B-2: Scaffolding Strategies to Support Writing in Mathematics – *Beatrice Moore*

Today's assessment often requires students to be able to communicate mathematical ideas and concepts through writing. This session will provide you with multiple strategies that support differentiating writing instruction for a population of diverse learners through effective and easy to use scaffolding strategies that allow teachers to organize a writing activity systematically to meet the needs of all students.

B-3: Game On! Designing Engaging Math Games With the Help of AI – *Steve Morris*

Turn routine review into meaningful play with the help of AI. Learn how to generate customizable, standards-based math games using AI tools and prompts that support creativity and differentiation. From concept to classroom-ready activity, discover ways to build engaging games that reinforce learning and spark student motivation. Ideal for teachers looking to blend fun and rigor in secondary math instruction.

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

CHOOSE ONE: B-4 or B-5

B-4: Let's Talk Math: Vocabulary Strategies for Mathematics Content Language – *Beatrice Moore*

This fun-filled session will provide you with a variety of strategies to help build content vocabulary in the mathematics classroom. Connections between ELAR strategies to build vocabulary and applications in mathematics will be highlighted. The goal is to immerse students in non-negotiable math talk that will make the language of math come alive and make sense to students.

B-5: AI-Powered Assessments: Quick to Build, Meaningful to Use – *Steve Morris*

Reimagine assessment by using AI to design varied and purposeful ways for students to demonstrate understanding. Explore how AI can support the creation of traditional checks for understanding alongside more open-ended, performance-based, and creative assessment formats. Learn to streamline the design process while maintaining rigor, clarity, and alignment with learning goals. Ideal for teachers seeking to make assessments more responsive, engaging, and efficient.

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

… "There were so many great resources!" …

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: Strategies for increased Student Engagement for Mathematics – *Beatrice Moore*
Student engagement is crucial for effective learning, as it enhances academic performance, fosters critical thinking, and promotes a positive educational environment. Learn practical, easy to implement strategies to boost engagement through thoughtful discussion and reflection practices that increase retention, fun and learning in the mathematics classroom!

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

CHOOSE ONE: C-2 or C-3

C-2: Flexible Math Teaching Starts Here: Differentiate With the Power of AI
– *Steve Morris*
Discover how AI can support responsive instruction tailored to the diverse needs of students in secondary math classrooms. Whether it's adjusting the level of challenge, offering multiple formats for practice, or generating scaffolded supports, AI tools can make differentiation more manageable and impactful. Explore time-saving strategies that help you meet learners where they are—without adding to your workload. A strong foundation for building a more inclusive and adaptable math classroom.

C-3: Applications With Linear Functions
– *Brad Fulton*
We will see three very concrete, visual, and physical models of linear functions. The three activities move from simplest to more complex as students transition and deepen their understanding. Concepts such as slope, y-intercept, domain, range, independent and dependent variables, and the slope-intercept form become clear to students of all levels.

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

CHOOSE ONE: C-4 or C-5

C-4: From Ideas to Interaction: Designing Engaging Projects and Simulations With AI
– *Steve Morris*
Explore how AI can support the creation of dynamic, student-centered learning experiences in secondary math. From early concept development to generating supporting materials, AI tools can help simplify the process of designing projects and simulations that promote deeper thinking. Whether you're building a digital escape room, a real-world problem scenario, or something entirely new, this session offers practical starting points to turn instructional goals into interactive opportunities. Perfect for teachers looking to explore creative alternatives to traditional instruction.

C-5: Hundreds Magic: Transitioning From Arithmetic to Algebra – *Brad Fulton*
This incredibly engaging activity helps students of all ability levels to make a seamless transition from the world of arithmetic to the world of algebra. My students always want to return to this classroom-tested and student-approved activity. It is based on the simple hundreds chart they saw in kindergarten, so all students can easily get on board, but they soon transition into deep algebraic thinking with success.

Lunch Break • 11:40 am – 12:40 pm

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:

- Ready-to-use, classroom-proven math strategies for your Grades 6-12 math students
- Ways to integrate AI into your daily routines to increase your efficiency
- Innovative ways to use AI to increase student engagement and learning
- The most up-to-date AI resources to enhance your Grades 6-12 math instruction
- Specific strategies for optimizing your mathematics instruction

"I really appreciated the fresh perspective and ideas. Thank you for sharing all the expertise and resources."
– Steven Jones, ELL Teacher

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.

ABOUT BER CONFERENCES

Outstanding Instructors

All programs are led by outstanding, top-rated BER national trainers.

Extensive Digital Resource Handbook

You'll receive an extensive digital Resource Handbook full of practical strategies and resources.

Highly Interactive

You'll be able to ask questions, consult with the instructors, and share ideas with other participants.

Program Guarantee

As we have for 48 years, we guarantee the high quality of our programs. If you are not satisfied, we'll give you a 100% refund.

Day Two

AFTERNOON SESSIONS • 12:40 – 3:20 pm

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

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

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

D-1: Reading Strategies for the Mathematics Classroom to Support ELL/ESL and Students With Reading Challenges – *Beatrice Moore*

You don't have to learn thousands of strategies to help your students read in mathematics! This session highlights several practical strategies that build on what you already know to make you more effective and increases your ability to provide additional support in reading for the mathematics classroom, particularly for newcomers (students who have recently arrived in the U.S.) and students with reading challenges.

D-2: Graphic Organizers for Teaching Algebra – *Brad Fulton*

We will look at how a variety of graphic organizers specifically designed for algebra can help students tame the most challenging problems. We will cover solving proportions, percentages, and word problems, factoring polynomials, solving combined work problems, and percent mixture problems. My own students found these to be very useful not only in understanding the concepts, but they were also a helpful tool for class and state assessments.

D-3: Shift the Focus: Using AI to Design Student-Driven Math Lessons – *Steve Morris*

Empower students to take a more active role in their learning by designing lessons that encourage choice, voice, and meaningful engagement. Learn how AI can support the development of flexible lesson structures that promote exploration, inquiry, and critical thinking in secondary math. From generating open-ended prompts to building choice boards or personalized learning paths, AI can help create opportunities for students to lead their own learning journey. A practical look at how technology can support deeper student ownership in the math classroom.

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

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

D-4: Growth Mindset Strategies That Make a Real Difference – *Beatrice Moore*

Math and a growth mindset go hand in hand. Students will face frustrations, failures, excitements, and successes in math, and mindset is key for forward-thinking progress. This session will provide you with 25 strategies to help students develop strong math mindsets so they will be better equipped to take risks, try new problems, and believe they can do math!

D-5: Winning Ways With Systems of Equations – *Brad Fulton*

Systems of equations are often a stumbling block to students. We'll look at an engaging and more effective and conceptual way of introducing the concept of solving by elimination. I'll also show why it's better to start with elimination instead of substitution or graphing as most textbooks do. Then we'll look at how to move from elimination to the other two methods by building on what students have learned along the process. By the end, students will have a clear picture of systems of equations and a well-stocked tool kit for solving them.

D-6: The AI Hack Pack: Tips, Tricks, and Tools for Every Math Teacher – *Steve Morris*

A fast-paced collection of practical strategies, shortcuts, and creative ideas for using AI in the secondary math classroom. Explore helpful features and lesser-known functions of popular tools introduced in earlier sessions, along with new time-saving techniques for planning, differentiation, and engagement. Learn how to write more effective AI prompts, troubleshoot common issues, and fine-tune outputs to better match your teaching needs. A great wrap-up session for teachers looking to expand their AI toolkit with ready-to-use ideas.