



Thursday Morning Exhibitor Workshops



8:00 a.m.–9:00 a.m.

26.1 Introducing Bridges in Mathematics Third Edition

 *3–5 Exhibitor Workshop*
 Walter E. Washington Convention Center, 156
 The Math Learning Center develops student-centered K–5 materials based on visual models and problem solving. Our latest offering, *Bridges in Mathematics Third Edition*, was created with equity in mind so students have choice, feel included, and can be heard. Join us to see how our relevant, open-ended tasks support student sensemaking and develop positive math identities.
The Math Learning Center, Salem, Oregon



8:00 a.m.–9:00 a.m.

26.2 The Perfect Math Credit: NGPF’s Financial Algebra

 *10–12 Exhibitor Workshop*
 Walter E. Washington Convention Center, 159AB
 Imagine this: Students use percents in a 50/30/20 budget, model spending decisions with inequalities, and design a budget spreadsheet for their post-high school lives all in one unit! Come explore NGPF’s free Financial Algebra course—the perfect math credit for students who crave real-world connection to make math meaningful.
Next Gen Personal Finance, Palo Alto, California



8:00 a.m.–9:00 a.m.

26.3 Open Questions, Open Minds with Kurt Whited, Savvas Learning Co.

 *General Interest Exhibitor Workshop*
 Walter E. Washington Convention Center, 143C
 Join us for this interactive workshop on open questions and discover how open questions help all students find a seat at the math table. You’ll learn how to create and implement open questions to build on that innate curiosity, giving it an openness to grow and flourish. Takeaways: By delivering open questions, teachers invite students at different stages of mathematical development to benefit and grow.
Savvas Learning Company, Paramus, New Jersey



9:30 a.m.–10:30 a.m.












70.1 New Functions from Old: Inverses, Transformations, and Compositions

 *10–12 Exhibitor Workshop*
 Walter E. Washington Convention Center, 143C
 In this session, Steve Kokoska and Tom Dick explore AP Precalculus style problems in which new functions are created from old: stretching, shifting, and reflecting graphs, using standard arithmetic operations, and composition. Analytical and graphical questions will be considered, and technology solutions and discovery-based activities will be presented. We will also discuss inverse functions analytically and graphically. Participants are encouraged to ask and answer questions.
Texas Instruments, Dallas, Texas

9:30 a.m.–10:30 a.m.

70.2 Doing Right by the 8 Mathematical Practices

 *General Interest Exhibitor Workshop*
 Walter E. Washington Convention Center, 158AB
 John Allen Paulos wrote in his book *Innumeracy*, “... mathematics has as much to do with computation as writing has to do with typing.” Yet, school math mostly emphasizes computation and arithmetic, overlooking critical thinking and problem solving. What the Common Core gets right is the eight mathematical practices, encouraging teaching mathematics as a way of thinking and problem solving. Let’s engage in practical ways to embed problem solving into students’ everyday interaction with mathematics.
Amplify, Brooklyn, New York

-  Uplifting and Inspiring the Mathematics Educator
-  Creating Inclusive, Engaging, and Rigorous Mathematics for All
-  Challenging and Advancing Policy and Structures in Mathematics Education
-  Expanding the Narrative of Who Belongs
-  Improving Core Instruction through Deeper Mathematical Content and Pedagogical Knowledge
-  Presidents’ Series
-  New Teacher Strand
-  Equity Strand
-  NCTM Committee Session
-  New NCTM Publication Session
-  Exhibitors Workshop

Thursday Morning Exhibitor Workshops

9:30 a.m.–10:30 a.m.

70.3 Unleashing the Potential of Peer Tutoring: Practical Applications from Stanford’s PeerTeach Project



6–8 Exhibitor Workshop

Walter E. Washington Convention Center, 159AB

Dive into the power of peer tutoring, one of education’s most proven and underutilized interventions. This interactive workshop is based on PeerTeach’s research at Stanford. Learn to train students as effective peer tutors, explore key considerations for matching tutees, and engage in hands-on activities to integrate peer tutoring into your instruction. By the end, you’ll have all the tools you need to empower your students to become better leaders, helpers, and communicators in math class.

PeerTeach, Albany, California

9:30 a.m.–10:30 a.m.

70.4 Stern Math: Using Concrete Multisensory Tools to Teach a Foundational Understanding of Numbers



General Interest Exhibitor Workshop

Walter E. Washington Convention Center, Exhibit Hall D, Th1

All students, especially those with dyscalculia, benefit from using concrete/spatial materials with interconnected language to build mathematical understanding and skill in computation. Stern Math is a hands-on approach to learning where students actively discover math concepts and number patterns. Using colorful blocks representing the numbers 1-10, students begin to make connections from the concrete materials to the abstract representations through interactive lessons and engaging games.

Stern Math, Rochester, Vermont

9:30 a.m.–10:30 a.m.

70.5 Break the Forgetting Cycle with Get More Math

6 to 8 Exhibitor Workshop
Walter E. Washington Convention Center, 156

By the end of the school year, students have already forgotten many of their hard-won math concepts. How can we break the forgetting cycle and make math stick? In this session, veteran math teacher Josh Britton will share his proven model for driving long-term retention through emphasis on the pedagogy of cumulative learning and use of Get More Math spiral review software.

Get More Math!, Quarryville, Pennsylvania

11:00 a.m.–12:00 p.m.

112.1 Get Rich Quick! Integrating Rich Tasks with Ease

8–10 Exhibitor Workshop
Walter E. Washington Convention Center, 143C

Everyone is talking about thinking classrooms and rich tasks. Still, many teachers find themselves asking, “What now?” Join Mathspace’s US Curriculum Lead, Victoria Lowery, to learn strategies for integrating rich tasks into your instruction (no matter what your instruction looks like). We will share some resources to take back to your classroom and discuss why rich tasks aren’t all or nothing. A few steps in the right direction can still have a transformative effect in your classroom.

Mathspace, New York, New York












11:00 a.m.–12:00 p.m.

112.2 Promoting Success in AP® Statistics with TPS 7e

10–12 Exhibitor Workshop
Walter E. Washington Convention Center, 158AB

Come learn from expert AP® educators Daren Starnes and Josh Tabor! They’re excited to show you all the amazing new updates and features in the upcoming 7th edition of The Practice of Statistics. Plus, they’ll share some helpful tips on using the program effectively. Don’t worry if you’re not already using TPS—this session is still packed with valuable insights for all AP® Statistics educators.

BFW Publishers, Hamilton, New Jersey

-  Uplifting and Inspiring the Mathematics Educator
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-  New Teacher Strand
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Thursday Morning Exhibitor Workshops

11:00 a.m.–12:00 p.m.

112.3 Be Inspired by CPM’s New Curriculum Inspiring Connections!



10–12 Exhibitor Workshop



Walter E. Washington Convention Center, 159AB

CPM has taken the latest research and created a new curriculum, *Inspiring Connections*. The innovative multimodal course fosters a more dynamic learning experience for students, featuring increased mobility, exposure to diverse perspectives, and enhanced ownership of their education. Students will utilize technology and print in tandem, in a student-centered, problem-based classroom.

CPM Educational Program, Elk Grove, California

11:00 a.m.–12:00 p.m.

112.4 Before Coding & Beyond Coding



General Interest Exhibitor Workshop



Walter E. Washington Convention Center, Exhibit Hall D, Th1

Presenters will demonstrate how to use Wolfram technologies in the classroom. By using natural language input in Wolfram technologies, students will be able to use their existing critical thinking and language skills to access computational tools immediately, focusing more on discovery, problem-solving, and understanding than rote repetition. We'll also introduce built-in mathematical demonstrations, starting point notebooks, and further resources to help students see the power of mathematics.

Wolfram Research, Inc., Champaign, Illinois

11:00 a.m.–12:00 p.m.

112.5 Cultivating Excitement for Math: The Magic of Immediate Feedback and Micro-Data



Coaches/Leaders/Teacher Educators Exhibitor Workshop



DC Convention Center, Exhibit Hall D, Th2

Join an experienced Middle School Teacher as he shares his journey of turning his classroom into a hub of data-informed teaching and learning. We will explore how the immediate feedback and daily micro-data from ASSISTments Teacher transformed his classroom routine. PLUS: Don't miss an exclusive sneak preview of a major new feature! Speakers: Alfons Prince, Middle School Teacher, Center City Public Charter Schools and Dawn Peterson, Director of Content, ASSISTments

ASSISTments, Auburn, Massachusetts

11:00 a.m.–12:00 p.m.

112.6 Keep it Real, Keep it Relevant: Exciting Opportunities to Keep Students Engaged!



8–10 Exhibitor Workshop



DC Convention Center, 156

Big Learning Ideas: Opportunities to enrich student learning are everywhere! Teachers should feel empowered to use real-life, relevant materials and experiences to show students where math truly exists. Big Ideas Learning co-author, Paul Battaglia, reveals innovative resources that go beyond the walls of a classroom and demonstrates how to apply them on a daily basis.

Big Ideas Learning, Erie, Pennsylvania



Uplifting and Inspiring the Mathematics Educator



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Challenging and Advancing Policy and Structures in Mathematics Education



Expanding the Narrative of Who Belongs



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Presidents' Series



New Teacher Strand



Equity Strand



NCTM Committee Session



New NCTM Publication Session



Exhibitors Workshop

Thursday Afternoon Exhibitor Workshops

1:00 p.m.–2:00 p.m.

149.1 Conceptualize it! With Calculus for the AP® Course 4e.



10–12 Exhibitor Workshop



Walter E. Washington Convention Center, 143C

Join expert AP® Calculus educator and co-author of the Teacher’s Edition for Calculus for the AP® Course 4th edition, Karen Hyers, for an informative session about teaching important skills for AP® Calculus. The session will showcase student and teacher materials from the Sullivan and Miranda, Calculus for the AP® Course 4e program that provide a hands-on approach to the topic – helping students to “Conceptualize it!” Recommended for all AP® Calculus teachers, regardless of textbook in use.

BFW Publishers, Hamilton, New Jersey

1:00 p.m.–2:00 p.m.

149.2 Teaching Problem Solving to ALL Students



3–5 Exhibitor Workshop



Walter E. Washington Convention Center, 156

Teaching students to reason and problem solve is the cornerstone of quality math instruction. This session will highlight several engaging strategies such as Three Reads, Numberless Word Problems, and more that will provide multiple entry points for all students to engage in the math and ignite a passion for problem solving in your classroom!

Presenter: Pamela Richards, STEMscopes Regional STEM coach and expert in K–8 Math and Science content and master teacher with 30+ years of experience.

STEMscopes Math & Math Nation, Houston, Texas

1:00 p.m.–2:00 p.m.

149.3 What Happened When PGPCS Made Math Literacy a Top Priority



6–8 Exhibitor Workshop



Walter E. Washington Convention Center, 158AB

Since 2019, Prince George’s County Public Schools has focused on developing math literacy as a way to boost performance among more than 27,000 middle graders. PGPCS’ Math Supervisor (Gr. 6–8) will examine the district-wide impact of this 4-year effort on Title 1 and multilingual learners and share generalizable takeaways. Participants will also explore math literacy strategies that PGPCS implemented in nearly 1,600 classrooms this year using Speak Agent’s Math+Language blended learning program.

Speak Agent, Inc, Rockville, Maryland

1:00 p.m.–2:00 p.m.

149.4 NBA Math Hoops–Creating the Next Math Champion



6–8 Exhibitor Workshop



Walter E. Washington Convention Center, Exhibit Hall D, Th1

NBA Math Hoops leverages the game of basketball and the NBA/WNBA to engage students with math and social-emotional learning skills through a board game, curriculum, mobile app, and community program. The workshop is fully hands on. The educators will get to learn the program and strategies of the game through interactive game play. Educators will draft their own NBA/WNBA team, dice will be rolled, and spinners will be spun. All resources for the program are completely free of cost for educators.

LearnFresh, Philadelphia, Pennsylvania

1:00 p.m.–2:00 p.m.

149.5 There’s Beauty in Modeling with Mathematics



10–12 Exhibitor Workshop



Walter E. Washington Convention Center, 159AB

How do we turn the phrase “Exploring our world through math” on its head? By exploring math throughout the world, we give students opportunities to engage with the questions they have about the world. Join us for this exciting session where we’ll explore the joy and beauty of modeling with mathematics and consider ways to pass on a legacy of curiosity to our students.

Texas Instruments, Dallas, Texas

2:30 p.m.–3:30 p.m.

194.1 Modifying Tasks to Engage All Students in Doing Math, Jennifer Mossgrove, Ed.D.



8–10 Exhibitor Workshop



Walter E. Washington Convention Center, 143C

We want to ensure that all students in our classrooms are engaged as doers of mathematics, not just those that are traditionally perceived as being “good at math.” We will consider features of mathematical tasks that support doing math and develop modification strategies that provide more access to more students. Participants will leave with specific tools and strategies to apply to their own lessons to engage more learners as doers in their classrooms

Knowles Teacher Initiative, Moorestown, New Jersey



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Exhibitors Workshop

Thursday Afternoon Exhibitor Workshops

2:30 p.m.–3:30 p.m.

194.2 Let's get physical... with mathematics

8–10 Exhibitor Workshop

Walter E. Washington Convention Center, 156

Engaging students through hands-on explorations is a powerful way to facilitate the connection of ideas. Join us as we engage with data collection activities that can bring everyday mathematics to life and shed light on the underlying mathematical concepts.

Texas Instruments, Dallas, Texas

2:30 p.m.–3:30 p.m.

194.3 Class Openers and Quick Games to Foster Numeric, Algebraic, and Geometric Thinking

General Interest Exhibitor Workshop

Walter E. Washington Convention Center, 158AB

Come learn some new class openers, games, and puzzles to spark student engagement. We will play a variety of games, openers, and puzzles that can be used to foster numeracy skills, algebraic thinking, and geometric understanding with students of all ages. We will explore some activities that will require 1-1 devices and some that will not.

Amplify, Brooklyn, New York

2:30 p.m.–3:30 p.m.

194.4 Elevate Instruction with Math Workshop Approaches for Differentiated Inquiry-Based Learning

General Interest Exhibitor Workshop

Walter E. Washington Convention Center, 159AB

Build mastery and bring joy to the classroom with active approaches to differentiate inquiry-based learning. Highlights include ways to inspire creative instruction with flexible and informative frameworks. Plus, learn why implementation transforms schools and makes an impact, from instruction and intervention to assessment and progress monitoring. Can't make this session? Visit the Heinemann Publishing booth (#205) for more Math Workshop information and other inquiry-based support.

Heinemann Publishing, Portsmouth, New Hampshire

4:00 p.m.–5:00 p.m.

236.1 AP® Calculus Panel Symposium

10–12 Exhibitor Workshop

Walter E. Washington Convention Center, 143C

A panel led by Stephanie Ogden from the College Board and Chief Reader Julie Clark that will discuss and answer questions about the 2023 exam reading as well as other important topics concerning AP® Calculus. A Q&A session will follow. Recommended for all AP® Calculus educators and administrators. This session is sponsored by BFW Publishers.

BFW Publishers, Hamilton, New Jersey

4:00 p.m.–5:00 p.m.

236.2 Solving the Fractions Problem—It's Finally Happening!

3–5 Exhibitor Workshop

Walter E. Washington Convention Center, 156

Fractions knowledge is powerfully linked to a student's future prospects in mathematics. Unfortunately, too few of our students ever develop the proficiency needed for long-term success. Join us for a discussion of the fractions problem, insights from recent research, and a breakthrough adaptive system that is making mastery a reality for students of all ability levels.

ExploreLearning, Charlottesville, Virginia

4:00 p.m.–5:00 p.m.

236.3 An All-Access Pass to Meaningful Math with Heather Sander, Savvas Learning Co.

General Interest Exhibitor Workshop

Walter E. Washington Convention Center, 158AB

Let's investigate open tasks that invite all students into the math. The book, *5 Practices for Orchestrating Productive Mathematics Discussions* by Smith and Stein 2nd Edition* encourages all students to work at levels that are appropriately challenging for them, within the content in their grade. Discover how to make this happen with ease in your classroom and have some fun while we are at it.

Savvas Learning Company, Paramus, New Jersey



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NCTM Committee Session



New NCTM Publication Session



Exhibitors Workshop

Friday Morning Exhibitor Workshops

8:00 a.m.–9:00 a.m.

274.1 Creating Richer Math Conversations with Marian Small



General Interest Exhibitor Workshop



Walter E. Washington Convention Center, 143C

We know students learn through more conversation. Conversations build mathematical reasoning skills, so that students don't simply know just how to do math, but also how to communicate mathematically with their teachers and peers. But how do you facilitate good conversations? In this workshop, we will discuss replicable strategies to help facilitate meaningful math conversations in your classroom as soon as your next class period.

Savvas Learning Company, Paramus, New Jersey

8:00 a.m.–9:00 a.m.

274.2 NGPF Math on a Mission: Finance Knowledge for All



10–12 Exhibitor Workshop



Walter E. Washington Convention Center, 159AB

By embedding finance into math class, you'll not only be making math relevant – you'll also be teaching your students lifelong financial skills. Today you'll learn where to find these gems on the free NGPF math website: an activity around exponential functions and car depreciation and a problem set where students graph systems of equations for savings goals. We've got Desmos Classroom activities, too! You'll be equipped to make math more meaningful the next time you step into class.

Next Gen Personal Finance, Palo Alto, California

8:00 a.m.–9:00 a.m.

274.3 Math Problems from the Singapore Classrooms



3–5 Exhibitor Workshop

DC Convention Center, 158AB



Join Ban Har and Sarah Schaefer to solve a bunch of high-level problems given to elementary school students. We will discuss key skills, concepts, and abilities that students need to handle these problems, and how we can help students develop them.

think! Mathematics/Mathodology, Neptune Beach, Florida

9:30 a.m.–10:30 a.m.

317.2 Vive le Difference Quotient: Approximating Derivatives



10–12 Exhibitor Workshop



Walter E. Washington Convention Center, 143C

In this this interactive presentation, former chief reader Steve Kokoska and Tom Dick will focus on problems involving the difference quotient and applications related to the definition of the derivative and approximating instantaneous rate of change. We will discuss both typical AP Calculus type analytical problems and applied questions. We will also present ways in which technology can be used to introduce, visualize, and solve problems involving the difference quotient.

Texas Instruments, Dallas, Texas

9:30 a.m.–10:30 a.m.

317.3 Harnessing the Power of Learning Progressions and Hands-On Centers to Foster Early Numeracy Skills



General Interest Exhibitor Workshop



Walter E. Washington Convention Center, 156

Join us for an exciting session with author and numeracy expert, Sue O'Connell, as she explores the concept of leveraging a learning progression model to guide the development and reinforcement of numeracy skills in math centers. Explore tailored learning centers that develop and reinforce early numeracy skills. See how shifting the focus to what students can do, allows us to build on prior knowledge and pave the path to mastery. Experience the power of hands-on numeracy tasks!

hand2mind, Inc., Vernon Hills, Illinois

9:30 a.m.–10:30 a.m.

317.4 From the Whiteboard to the White House: Math Lessons of Award-Winning Teachers



General Interest Exhibitor Workshop



Walter E. Washington Convention Center, 159AB

Meet award-winning teachers who will share creative lesson plans for you to take back home! Their work in the classroom has been recognized by the White House and now you can hear their inspiring stories and learn some of their teaching tools of the trade. You will also hear how receiving a Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST) changed their lives – and can change your life too!

National Science Foundation, Alexandria, Virginia



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Presidents' Series



New Teacher Strand



Equity Strand



NCTM Committee Session



New NCTM Publication Session



Exhibitors Workshop

Friday Morning Exhibitor Workshops

9:30 a.m.–10:30 a.m.

317.5 Break the Forgetting Cycle Part 2: Cumulative Assessment with Get More Math



6–8 Exhibitor Workshop



Walter E. Washington Convention Center, 158AB

Unit testing trains student brains to experience math as a series of disposable two-week hurdles. Let's change this with cumulative assessment! When every test covers "everything" learned up to the point of the test, students and teachers maintain a stronger connection to the whole body of skills and concepts in the course. In this session, we will explore the power of cumulative testing to break the 'Forgetting Cycle' and how Get More Math software takes care of the heavy lifting.

Get More Math, Quarryville, Pennsylvania

9:30 a.m.–10:30 a.m.

317.6 Making Sense of Fractions: A Journey into Deeper Understanding



3–5 Exhibitor Workshop



DC Convention Center, Exhibit Hall D, Th1

Why do students consistently struggle with fractions? What crucial aspects are we missing in our teaching? How can we design and implement a learning trajectory to facilitate a deeper understanding? Explore key sessions from Innovamat's curriculum, clarifying the deep relationship between fractions and a strong number sense. We'll share rich math activities that foster understanding of fractions while developing the mathematical processes. Engage and reshape your teaching of fractions with us!

Innovamat, Union City, New Jersey

11:00 a.m.–12:00 p.m.

359.1 Back to the Future. Print Textbooks meets AI.



8–10 Exhibitor Workshop

Walter E. Washington Convention Center, 143C



With an increasing focus on digital learning in math classrooms, do traditional print textbooks still have value? Join Mathspace's US Curriculum Lead, Victoria Lowery, and founder Mohamad Jebara, for a discussion on creating curriculum that blends the best traditional strategies with cutting-edge AI.

Learn how to use print and digital resources in harmony rather than an either/or proposition. Preview our powerful AI tutor chat that safely supports students and keeps educators in the loop.

Mathspace, New York, New York

11:00 a.m.–12:00 p.m.

359.2 Watson, I Have Found the Missing Link! Let Me Draw You a Picture!



3–5 Exhibitor Workshop



Walter E. Washington Convention Center, 156

You invest time modeling with manipulatives, move to formal algorithms, and students still make the same errors. This interactive session will reveal the missing link between manipulatives and formal symbolic algorithms. Focus will be on development of addition and subtraction from conceptual to procedural using universal place value drawings and more.

Pamela Richards, STEMscopes Regional STEM coach and expert in K–8 Math and Science content and master teacher with 30+ years of experience.

STEMscopes / Accelerate Learning, Inc., Houston, Texas



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11:00 a.m.–12:00 p.m.

359.3 K–5 Hands-On Manipulatives + Real-Time App Feedback = Success with Owlet Math Tools



General Interest Exhibitor Workshop
Walter E. Washington Convention Center, 159AB

Looking for the perfect equation for fun, interactive, and cutting-edge math instruction? In this session, get hands on with Owlet Math Tools – two groundbreaking math manipulatives with real-time feedback to help make abstract math concepts concrete for grades K–5. Explore concepts like place value, money, fractions, and more with hands-on exploration and collaborative math talk. Leave this session with new ideas, free resources, and everything you need to borrow Owlet FREE for 60 days!

BirdBrain Technologies, Pittsburgh, Pennsylvania

11:00 a.m.–12:00 p.m.

359.4 NBA Math Hoops – Creating the Next Math Champion



6–8 Exhibitor Workshop
Walter E. Washington Convention Center, Exhibit Hall D, Th1

NBA Math Hoops leverages the game of basketball and the NBA/WNBA to engage students with math and social-emotional learning skills through a board game, curriculum, mobile app, and community program. The workshop is fully hands-on. The educators will get to learn the program and strategies of the game through interactive game play. Educators will draft their own NBA/WNBA team, dice will be rolled, & spinners will be spun. All resources for the program are completely free of cost for educators.

Learn Fresh, Philadelphia, Pennsylvania

11:00 a.m.–12:00 p.m.

359.5 Build Confidence with Collaborative Math Talk for Active Inquiry-based Learning



General Interest Exhibitor Workshop
Walter E. Washington Convention Center, 158AB

Explore active and engaging approaches to collaborative inquiry-based learning that builds mastery and brings joy to the classroom. See how Math Talk’s research-based approaches help create inspiring student-centered learning environments where students aren’t afraid to take risks while expressing mathematical thinking. Can’t make this session? Stop by the Heinemann Publishing booth (#205) for more information on Math Talk and other inquiry-based support.

Heinemann Publishing, Portsmouth, New Hampshire

11:00 a.m.–12:00 p.m.

359.6 Power of Purposeful Play in Developing BIG IDEAS



PreK–2 Exhibitor Workshop
DC Convention Center, Exhibit Hall D, Th2

Discover how play-based activities can magnify how young children think and reason about core mathematical ideas, laying strong foundations, while creating confident and independent thinkers.

This presentation will include creative and inspiring examples of how teachers provide choice and purposeful play in developing foundational ideas around BIG math concepts.

think! Mathematics/Mathodology, Neptune Beach, Florida



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Exhibitors Workshop

Friday Afternoon Exhibitor Workshops

1:00 p.m.–2:00 p.m.

401.2 So, You Want to Explore Space?


 *General Interest Exhibitor Workshop*
Walter E. Washington Convention Center, 143C


 Join astronomer and National Geographic Explorer, Munazza Alam, for an in-depth conversation on space exploration! Educators will realize the deep connection between mathematics and astrophysics as Dr. Alam shares her experiences working with powerful telescopes, such as the Hubble Space Telescope and the James Webb Space Telescope. Educators will learn ways to guide students from their very own classrooms to eventually pursue a career in the vastness of space.

Big Ideas Learning, Erie, Pennsylvania

1:00 p.m.–2:00 p.m.

401.3 Playing with Quadratics in Standard Form &


 *Other Curiosities*
10–12 Exhibitor Workshop


 Walter E. Washington Convention Center, 156
How can we engage our students in the beauty and wonder of mathematics? Often, we explore math in unusual places. But what about the puzzles that lie within mathematics itself? Come dive into interesting relationships within the world of Quadratics.

Texas Instruments, Dallas, Texas

1:00 p.m.–2:00 p.m.

401.4 A Culture of Conversation: Supporting Classroom Discussion and Maintaining Math Learning


 *6–8 Exhibitor Workshop*
Walter E. Washington Convention Center, 159AB


 Take a peek inside a Louisville, Kentucky classroom using Core Curriculum by MidSchoolMath to see and experience a classroom culture that fosters discussion and maintains math learning. Find out how students are able to easily recall lessons and standards from months prior and walk away with practical ideas for increasing mathematical conversations and supporting recall in your classrooms.

MidSchoolMath, Taos, New Mexico

1:00 p.m.–2:00 p.m.

401.5 Same and Different: What's New in Bridges in Mathematics Third Edition


 *3–5 Exhibitor Workshop*
Walter E. Washington Convention Center, Exhibit Hall D, Th1


 The Math Learning Center develops student-centered K–5 materials based on visual models and problem solving. We created Bridges in Mathematics Third Edition with equity in mind so students have choice, feel included, and can be heard. What else has changed? Join us to see how the curriculum expands representation, offers suggestions for increasing engagement, and includes more relevant, open-ended tasks that support sensemaking and develop positive math identities.

The Math Learning Center, Salem, Oregon












2:30 p.m.–3:30 p.m.

442.2 Game On: How Prodigy's Digital Gaming Experience Ignites the K–8 Classroom!

 *3–5 Exhibitor Workshop*
Walter E. Washington Convention Center, 156

 Join us to learn how to ignite learning in the K–8 classroom with Prodigy Math, North America's most popular game-based learning platform! In this session, we'll cover the award-winning student experience, provide details about our adaptive algorithm, train you on key teacher features, and share teacher-to-teacher tips to help you use Prodigy Math effectively. Additionally, we'll outline how we provide Prodigy Math at NO COST to educators thanks to our unique freemium business model.

Prodigy Education, Beamsville, Ontario

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|  | Uplifting and Inspiring the Mathematics Educator |  | Presidents' Series |
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Friday Afternoon Exhibitor Workshops

2:30 p.m.–3:30 p.m.

442.3 Math Teacher Lounge LIVE!



General Interest Exhibitor Workshop
Walter E. Washington Convention Center, 158AB



Join us for a live Math Teacher Lounge podcast session with Dan Meyer and a special guest! We'll be investigating math fluency and finding fun ways to get all students engaged in math instruction. Participants will even have a chance to be featured on this season of the podcast. Doors open at 2:15 PM and the session starts at 2:30 PM You won't want to miss it!

Amplify, Brooklyn, New York

2:30 p.m.–3:30 p.m.

442.4 Exploring Function Transformations



10–12 Exhibitor Workshop
Walter E. Washington Convention Center, 159AB



Provide your students the opportunity to explore and discover the effects changing parameters has on a parent graph. In this session, Tom Reardon will engage participants in utilizing the graphing feature and the transformational graphing app on the TI 84 Plus CE to help students build a conceptual understanding of transformations.

Texas Instruments, Dallas, Texas

2:30 p.m.–3:30 p.m.

442.5 Ensure Sensemaking with Mindful Problem Solving for Reflective Inquiry-based Learning



General Interest Exhibitor Workshop
Walter E. Washington Convention Center, 143C



Build mastery and bring joy to the classroom with ways to implement mindful inquiry-based learning into math instruction. See how empowering introspection addresses learning loss in math. Plus, learn how problem-solving helps establish foundations while encouraging self-directed learning through reflection, resourcefulness, and more. Can't make this session? Stop by the Heinemann Publishing booth (#205) for more information on Problem Solving and other inquiry-based support.

Heinemann Publishing, Portsmouth, New Hampshire



Uplifting and Inspiring the Mathematics Educator



Creating Inclusive, Engaging, and Rigorous Mathematics for All



Challenging and Advancing Policy and Structures in Mathematics Education



Expanding the Narrative of Who Belongs



Improving Core Instruction through Deeper Mathematical Content and Pedagogical Knowledge



Presidents' Series



New Teacher Strand



Equity Strand



NCTM Committee Session



New NCTM Publication Session



Exhibitors Workshop