



June 20 – 22, 2024
Caribe Royale
Orlando, FL

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Conference Agenda

Wednesday, June 19, 2024

Exhibitor Check In - Registration West	4:00 PM - 8:00 PM
Exhibitor Set Up - Caribbean Ballroom I, II, III	4:00 PM - 8:00 PM
Participant Check In - Registration East	4:00 PM - 10:00 PM

Thursday, June 20, 2024

Participant Check In - Registration East	7:00 AM - 6:00 PM
Exhibitor Set Up - Caribbean Ballroom I, II, III	8:00 AM - 10:00 AM
Opening Session - Caribbean Ballroom IV & V	8:00 AM - 9:45 AM
Exhibits - Caribbean Ballroom I, II, III	10:00 AM - 4:30 PM
Session 1	10:15 AM - 11:15 AM
Session 2	11:30 AM - 12:30 PM
Lunch Break	12:30 PM - 2:00 PM
FCTM General Meeting - Hibiscus	1:15 PM - 1:45 PM
Session 3	2:00 PM - 3:00 PM
Session 4	3:15 PM - 4:15 PM

Friday, June 21, 2024

Participant Check In - Registration East	7:00 AM - 4:00 PM
Exhibits - Caribbean Ballroom I, II, III	8:00 AM - 4:30 PM
Session 5	8:00 AM - 9:00 AM
Session 6	9:15 AM - 10:15 AM
Elections - Registration West	10:00 AM - 1:00 PM
Session 7	10:30 AM - 11:30 AM
Lunch Break	11:30 AM - 1:00 PM
Session 8	1:00 PM - 2:00 PM
Session 9	2:15 PM - 3:15 PM
Session 10	3:30 PM - 4:30 PM
Friday Night Party - Caribbean Ballroom VI & VII	5:30 PM - 7:30 PM

Saturday, June 22, 2024

Participant Check In - Registration East	7:00 AM - 9:00 AM
Session 11	8:00 AM - 9:00 AM
Session 12	9:15 AM - 10:15 AM
Closing Session - Caribbean Ballroom IV & V	10:30 AM - 12:15 PM

Opening Session



Sal Khan

Join us for a special session presented by Sal Khan, where we will explore the exciting world of AI in education and its transformative potential. In this thought-provoking session, we will delve into the impact of AI on personalized learning and enhancing classroom instruction. Discover why AI should be embraced as a valuable learning opportunity for all students. This session will also highlight Khan Academy's groundbreaking platform, Khanmigo, which harnesses the power of AI to revolutionize teaching and learning.

Closing Session



Dr. Kristopher Childs

Do you want all students in your environment to learn mathematics and be successful? If yes, then this session is for you. In this session, you will develop a broad purpose of learning mathematics, make sense of the critical components of equitable mathematics instruction, and learn how to be unapologetic when advocating to ensure every student receives the support and resources needed to maximize their learning potential. You will leave the session with practical strategies that can immediately be implemented in your mathematics environment.

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Mathematics Statewide Assessment Updates	General Interest	Come hear about assessment updates from the Test Development Center.	Kristina Lamb Caribbean 6
Welcome to Building Thinking Classrooms	Level the Playing Field K-2, 3-5, 6-8	In this session you will have the opportunity to learn how we implement Building Thinking Classrooms in our room. One of the most common questions we hear after teachers read the book is, how do I get started? We will show you. We will introduce a fun, rich task that is great for students of all ages that you can bring back to your classroom next Monday.	Debbie Perry, Melissa Magill Caribbean 7
Design a Garden Fish Pond: Exploring the Geometric Concepts of Area and Perimeter	Hit it Out of the Park 3-5, 6-8, General Interest	The session participants will engage in an open task designed to teach the geometric concepts of area and perimeter. The task was planned for learning through deep pedagogical knowledge. Students have to (1) calculate the surface area of a fish pond given a perimeter and (2) calculate how long it would take the duckweeds to cover the surface of the pond if a certain amount was placed in it. The task was designed to promote students' critical thinking skills with a deep pedagogical approach; students have to engage in an investigation to design a garden fish pond, and each student will have a unique design for each of the ponds. Students would also need to contextualize why a certain dimension will work/not work for a particular fish pond. They also need to research how long it takes for duckweed to grow, a concept in science. Also, participants will be able to engage in conversations related to pedagogical considerations in implementing the task in an integrated lesson for mathematics and science.	Giang-Nguyen T. Nguyen Boca 1
Elevating and Including Student Voices in Math Education	Level the Playing Field 6-8, 9-12, Leadership, General Interest	<p>Join us for an inspiring session on the transformative power of youth voice in math education. MathVoice Innovators is a middle school math project aligned with standards, driven by youth participatory evaluation methods, and session participants will gain insights into its design and implementation. Explore the value of listening to students and delve into the You Lead experience with youth participatory evaluation in Florida. Our focus on "MathVoice Innovators" will demonstrate how empowering student voices can enhance middle school math education.</p> <p>Learn about student-led research processes, data analysis, and formulation of recommendations grounded in youth participatory data, gathered by and among middle school students.</p> <p>Real-life examples and interactive activities will illustrate the impact of youth voice on instructional practices. Understand the iterative nature of our journey and explore the future of an educator network advancing youth voice in math education. Participants will learn about useful, free tools to bring youth voice into their classrooms and schools, and join with others in an emerging community of practice across Florida.</p>	Alan Coverstone Boca II

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Leveraging the Workshop Model in 4th and 5th Grade Math Blocks	Level the Playing Field 3-5	<p>Many educators and students are still feeling the impact of the COVID epidemic in their classrooms. To fulfill the needs of our kids, the 4th and 5th grade math team realized that this presented a diverse range of challenges and opportunities.</p> <p>To meet these challenges, the math team examined all the student's standardized assessment data (FAST PM 1) in the fall of 2022. The team collaborated to devise a plan to meet the diverse needs of the students. The team created three initial groups: push, core, and pull. The team immediately identified students who did not fit into one of the defined groups during this meeting. Therefore, the development of two subgroups, push plus and pull plus, to satisfy the needs of the data outliers. The team recognized that with these groupings, students would be met at their current academic level and supported to gain mastery of grade-level benchmarks.</p>	<p>Angela Gonzalez, Josh Hammond, Susan Hansen, Kristen Taylor, Michelle Mills</p> <p>Boca III</p>
How to Get Started with Effective Math Intervention	Level the Playing Field K-2, 3-5, Leadership	<p>Are you wondering how to truly implement math intervention in a meaningful way? Learn about Tier 2 and 3 math in a multi-tiered system of supports and how you can help students to make growth. We will dig into levels of math skill development and how to identify the priority educational need for a struggling student in math.</p>	<p>Naomi Church</p> <p>Boca IV</p>
Making Problem-Based Learning Worthwhile for Secondary Students	Hit it Out of the Park 6-8, 9-12	<p>Connect students' informal mathematical understandings to formal mathematical concepts by exploring strategies that help students develop a deeper understanding of mathematics through interacting with each other and their teachers. Participants will engage in activities that enhance their knowledge of problem-based instruction, as they explore how it develops conceptual understanding in students. Participants will walk away with effective strategies for using problem solving to enhance students' learning and tools to engage students in interactive learning.</p>	<p>Kristina Devalle, Ricardo Sinclair</p> <p>Boca V</p>
The Internship Playbook - a Field Placement Guide for Interns, Mentors, & University Supervisors	Everyone Needs a Coach K-2, 3-5, Leadership, General Interest	<p>Cooperating teachers, or mentors, should be fully equipped to coach teacher candidates - giving them the tools for teaching, growth mindset in math, discussion and writing in math, classroom management for cooperative learning, quality assessment and academic feedback, and so on. I am the Program Manager for an Initial Teacher Preparation Program, which is the most traditional pathway for becoming a professionally licensed teacher in Florida. Our teacher candidates spend over 250 hours teaching in pre-internship field placements. Internship lasts 14 weeks with gradual release of responsibility. Everyone needs a coach, and with a field placement playbook for elementary mathematics, teaching interns can soar! The playbook highlights the nature of field placement, roles and responsibilities of teacher candidates, cooperating teachers, and supervisors, research-based model for effective instruction, lesson design, assessment/formative assessment, questioning and feedback, student engagement, classroom management, co-teaching, parent communication, and more. Go Team!</p>	<p>Abigail e</p> <p>Boca VI</p>

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Making Algebra Child's Play	For the Love of the Game 3-5, 6-8	Learn how Hands-On Equations, a visual and kinesthetic approach for teaching algebraic concepts enables students in grades 3-8 to grasp sophisticated looking concepts of linear algebra. Learn how to make Algebra child's play!	Mary Anne Lane Boca VII
AP® Precalculus Brings Modeling to Life!	For the Love of the Game 6-8, 9-12	Whew! Made it through the first year of AP Precalculus. Participants will have the opportunity to practice AP Precalculus free response and multiple-choice questions that are enhanced by the use of graphing technology. Function types explored may include polynomial, piecewise-defined, exponential, and logarithmic (Units 1 and 2). This will include analysis of average rates of change in the context of the problem. Handheld technology from the TI-Nspire and TI-84 CE family will be available during the session. A snippet from what was learned at the first AP Precalculus Reading, including best practices and other professional development will be discussed. All secondary teachers are welcome to check out this new course.	Dianne Wischmeier, Margaret Bambrick Boca VIII
Math Club Mania: Promoting Positive Mathematics Identity Development in Elementary Students	Level the Playing Field 3-5	Participants will learn how to implement a mathematics club in their own school that promotes the development of students' positive mathematics identities. I will discuss the meaning and importance of mathematics identity, the factors that influence mathematics identity, and the rationale for using a math club as the means to promote positive mathematics identities. Participants will receive a usable framework for the club which includes Wenger's (1998) theory of Communities of Practice, Holland and colleagues (1998) theory of Figured Worlds, and key recommendations from Catalyzing Change in Early Childhood and Elementary Education: Initiating Critical Conversations (NCTM, 2020) and The Impact of Identity in K-8 Mathematics Learning and Teaching: Rethinking Equity-Based Practices (Aguirre et al., 2013). I will demonstrate how this framework is used for task selection, discuss the outcomes of my math club, and provide examples of quality tasks. There will be time for questions and answers.	Kayla Blankenship Bonaire 1&2
Making the Most out of Word Problems	Hit it Out of the Park K-2, 3-5	Participants will explore and analyze word problems involving whole numbers operations and consider ways to support students' exploration and sense making of these problems. There will be a focus on differentiating and modifying tasks and supports for all learners.	Drew Polly Bonaire 3&4
The Art of Inquiry	Hit it Out of the Park General Interest, Leadership	Why do we ask questions in teaching? Is teaching a practice of telling or asking? General consensus in research and application says we should ask questions, yet the art and effectiveness of asking questions has yet to be fully unlocked. Teachers or instructional leaders engaged in this session will explore authentic examples in K-12 classrooms teaching and learning to develop a better understanding of what inquiry can look and sound like for effective teaching. Session materials are grounded in recent research reports on differing types of inquiry across content areas, while session outcomes target the barriers and opportunity for using inquiry to improve conceptual understanding, increase student achievement, and influence the way in which students engage with mathematics. Participants can expect to leave the session with a framework for understanding inquiry, examples for communicating inquiry, and resources to continue their exploration of the art of inquiry for effective math teaching and learning.	LG Grab, Bryan Jones Bonaire 5&6

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Hands-On and Self-Correcting Math Centers	Level the Playing Field K-2, 3-5	Attendees will get to play with and keep materials that can be used for small group and self-contained math centers.	Rich Stuart Bonaire 7&8
Early Numeracy is Critical: Make an Impact!	Level the Playing Field K-2	Early numeracy is as important as early literacy and research has shown (Duncan 2007) predicts the future success in mathematics and literacy. But we know it does not receive the same attention in terms of support for teachers via professional learning and coaching. Often we as leaders do not have experience in these grade levels. This session will support leaders with critical early numeracy content progressions by viewing videos of student thinking in the domain of addition and subtraction and number words and numerals. Interview assessment strategies will be examined to ensure that teachers are identifying the knowledge each student has and then building on it. Key instructional techniques such as pedagogical engineering and distancing the setting will be examined to ensure students are moving forward in their understanding in a robust manner. Lastly, we will unpack entry points to support teachers to examine their practice and leaders will leave with a plan of action to engage teachers in a way that will ignite their passion for teaching mathematics.	Marria Carrington Antigua 1&2
Financial Literacy and TI Technology	Hit it Out of the Park 9-12	Simple interest? Compound interest? Car loans? Investment? Home mortgage? – Let’s explore how the components of personal finance relate to the mathematics of functions. See how TI technology can help students gain an understanding of important concepts. Gain experience using TI resources and the finance app to investigate real-life scenarios.	Ruth Casey Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Making a Better Marketing Team for Math	Featured Speaker	Math needs a better marketing team. As math teachers, how are we marketing math so students want more? What can we learn from social media to make math more social, exciting, and surprising? Let's show how math can be fun in this talk.	Howie Hua Caribbean 4&5
Equitable Practices for Meeting Needs of All Learners	Level the Playing Field K-2, 3-5, 6-8, 9-12, General Interest	According to Public School Review data, Florida students are only 48% proficient in math in public schools across the state. Further, there has been a notice in math deficiencies with students across the state. In efforts to bridge this achievement gap, teachers must be equipped with equitable math practices. In this session Florida Equity and Access committee members will discuss various equitable activities practices in the math classroom that is available to all teachers along with suggestions on meeting the needs of all learners.	India White, Zack Hill Caribbean 6
Unleashing the Power of Why: Crafting Questions to Ignite Math Learning	Hit it Out of the Park K-2, 3-5, General Interest	Struggling to craft effective questions that ignite learning in your math classroom? Master questioning strategies to ignite learning and engage all students. Learn about: Questioning's impact on engagement and understanding. Types of questions for advancing vs. assessing knowledge. Planning questions for diverse learning styles and lessons. Enhancing your TQE framework for questioning. Leave ready to: Craft thought-provoking questions that spark curiosity. Effectively plan questions to advance learning for all. Join us and unlock the power of questioning in your math classroom!	Stephanie Sheiman, Lanee Wilcox Caribbean 7
I Almost Threw in the BTC Towel this Year (but didn't)!	Level the Playing Field K-2, 3-5	Have you heard of Building Thinking Classrooms? If you are on the BTC journey (or want to be!), come and listen as I share my BTC story and listen to other participants' BTC stories. In this interactive session, you will be encouraged to keep going and not throw in the BTC towel!	Laura Tomas Boca I
Unlocking Mathematical Thinking for All: Using Desmos Math 6-A1 for Low Floor, High Ceiling Tasks	Level the Playing Field 6-8, 9-12	Bring your device and join us for this interactive session, where we will explore how Desmos Classroom can be leveraged to engage students in low-floor, high-ceiling tasks that promote mathematical thinking and cater to diverse learners. Designed for middle school math educators, this hands-on session will delve into the power of Desmos Classroom to provide accessible entry points for all students while offering opportunities for deep exploration and extension of mathematical concepts. You will leave this session equipped with practical strategies to implement low-floor, high-ceiling tasks in your classroom and foster a culture of mathematical exploration in for all students.	Kelly Serpa Howe Boca II
Reaching all Learners: Empowering and Engaging Students with Desmos Math	Level the Playing Field 6-8, Leadership, General Interest	Learn how effective instructional habits combined with the purposeful use of Desmos Classroom's pedagogically designed technology, foster a positive mathematical identity, nurture student thinking, invite curiosity, and deepen mathematical understanding. Participants will engage in activities that empower students to explore new ideas while experiencing the dynamic teacher facilitation tools that highlight mathematical thinking. Join us to learn how our lessons pose problems that encourage a variety of approaches, and how our technology enables teachers to celebrate and nurture all of the interesting student thinking in their math classrooms. Bring your device for this hands-on Desmos Math experience!	Maria Flores-Lavarone Boca III

Session Title	Theme/ Audience	Description	Speaker(s) & Room
<p>Task Nudges to Engage Students and Deepen Their Learning</p>	<p>Level the Playing Field 6-8, 9-12</p>	<p>What are some ways we can enhance a task to engage students and deepen their learning? In this session we will share nudges we have designed to answer this question. These nudges draw from research on teaching algebra and are small tweaks that can be applied to any mathematics task.</p> <p>In this session, we will begin by sharing a brief overview of what “task nudges” are and how the nudges were designed based on relevant research. Then, participants will get the opportunity to experience three different task nudges. Following each nudge, we will have a discussion about how they can be applied to any task and further enhanced. While our sample nudges will center on algebra, they are relevant for any mathematical topic.</p> <p>The goals for this discussion session are to (1) build a shared understanding of the nudges, (2) share how we have engaged in the design process to create instructional nudges and (3) create a deeper understanding of how these nudges foster conceptual understanding and student engagement. In addition, participants will receive additional materials for each of the three nudges so they can share them with their colleagues.</p>	<p>Zandra de Araujo Boca IV</p>
<p>Adding Fun to Your Classroom with Mathematical Thinking and Reasoning (MTR) Standards</p>	<p>Hit it Out of the Park K-2, 3-5, 6-8, 9-12, Leadership</p>	<p>Participants will engage with each Mathematical Thinking and Reasoning (MTR) Standard via fun problem-solving activities that will help them gain a deeper understanding of each MTR. Strategies will be modeled to help teachers meaningfully embed MTRs in everyday instruction and make learning math fun and effective for students. Each participant will receive a packet of MTR-specific resources, as well as a large MTR classroom poster.</p> <p>Typically, this session is given in a 2-hour workshop setting, so this 1-hour session will be streamlined to give math teachers/leaders enough information to conduct MTR training in their home schools/districts. All materials used, including the PowerPoint presentation will be shared with participants at the end of the session.</p>	<p>Judy Hickman, Andrea Dreaden Boca V</p>

Session Title	Theme/ Audience	Description	Speaker(s) & Room
<p>Assigning Competence to Value Mathematical Thinking in Groupwork</p>	<p>Everyone Needs a Coach 6-8, 9-12</p>	<p>Come explore a teaching strategy aimed at redefining what it truly means to be "smart" by focusing on behaviors aligned with mathematical practices. We aim to celebrate the diverse strengths and assets each student brings to the learning journey, while also highlighting the practices that mathematicians employ daily. By doing this, we can shift the classroom's values to foster a more inclusive and dynamic learning environment.</p> <p>During our session, we'll delve into strategies for transforming groupwork dynamics, where students often rush to complete tasks without fully engaging with the material. Join us to discover how to reshape values in your classroom, where all forms of mathematical thinking are appreciated and valued.</p> <p>We'll explore the role of student status in group dynamics and practice techniques for assigning competence. Through hands-on activities and observations of student engagement, participants will gain insights into how status influences group interactions and discover practical strategies to implement in their math teaching moving forward. Leave our session equipped with actionable strategies that you can apply immediately in your teaching practice next year!</p>	<p>Anna Monteiro, Joshuah Thurbee Boca VI</p>
<p>GLOWOMETRY- Black Light Geometry</p>	<p>Hit it Out of the Park 3-5, 6-8</p>	<p>Participants will be transformed to a room that is full of engagement. The room is filled with black lights and vibrant neon colors. Participants will actively participate in classifying triangles with neon straws, find circumference and area using highlighters, and neon circles, use actual neon painted shaped pieces of wood for to find area and perimeter of quadrilaterals, triangles, hexagons and other shapes. Participants will use plastic plates as dry erase boards to draw and decompose a figure. Participants will also participate in rectangles with the same perimeter and different area. Participants will be in engage in lots of "Math Talk". This entire session is done with the lights off and using black lights. " This is absolutley amazing for anyone to experience". Benchmarks range from 4th through 7th grade Geometry activities, using simple everyday items.</p>	<p>Leigh Ann Norris, Sam Livermoree Boca VII</p>
<p>Rethinking Rounding: From Rhymes to Reasoning with Conceptual Place Value</p>	<p>For the Love of the Game 3-5</p>	<p>While teaching, I found that often where students would get most stuck within the first month was not when introducing expanded ideas of the operations, but instead on rounding. Rounding is a skill that is quickly applicable in real-world situations, and yet, I've heard many teachers spend days or weeks longer on this piece of curriculum than what's "budgeted". How can we shift towards helping students gain confidence when rounding and do so in a way that is easier for them to access and less teaching intensive?</p> <p>The "trick" here isn't a trick at all, but instead is utilizing what our students already know of our number system while shifting the focal point of our lessons to a conceptual place value understanding rather than positional place value.. This session will help teachers ditch the rhymes and develop student rounding skills that will translate into supporting their ability to reason not just within rounding, but throughout multi-digit operations as well.</p>	<p>Naomi Dupre-Edelman Boca VIII</p>

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Uncomplicating Math Discourse	Level the Playing Field K-2, 3-5, 6-8, 9-12	Join our session on strategies to increase math discourse. We will discuss the evidence that supports the importance. We will then provide and practice strategies to engage all students in mathematical discussions. We will discuss how to analyze the thinking of others and how to explain their thoughts. Participants will walk away with strategies to implement during the first week of school.	Ashley Doty, Megan Cox Bonaire 1&2
Powerful Math Stations	Hit it Out of the Park 3-5, 6-8, 9-12	How math stations can be impactful for closing students learning gaps.	Jennie Gyford Bonaire 3&4
Math Adventures: Igniting Curiosity and Engagement in Middle School Students	For the Love of the Game 6-8	In this conference session, we will explore the power of using explore activities to engage middle school math students. By incorporating hands-on and interactive experiences, we can ignite curiosity and foster a deeper understanding of mathematical concepts. Participants will learn practical strategies and resources for implementing explore activities in their classrooms, including real-world applications, problem-solving challenges, and group investigations. Join us to discover how these dynamic activities can enhance student learning, promote critical thinking, and make math an exciting adventure for middle school students.	Magda Mixon Bonaire 5&6
Keeping It Real: Using Real World Connections to Accelerate Math Growth	Level the Playing Field K-2, 3-5, 6-8, 9-12, Leadership, General Interest	How do your students feel about math? Are they excited and motivated to learn? Or are some of them disengaged and disinterested? Research says that we can get and keep students engaged in math if we connect their learning to the real world. Join us in this session as we discuss real world connections and how to use them to deepen student math understanding and accelerate their growth in math.	Tony Sales Bonaire 7&8
Integrating Social-Emotional Learning and Children's Literature in the K-5 Math Classroom	Level the Playing Field K-2, 3-5	Mathematics can be an area that causes anxiety for many elementary students. Additionally, developing strong social-emotional skills is crucial for academic success. In this session, participants will learn strategies for integrating children's literature and social-emotional learning (SEL) into K-5 mathematics instruction.	Christine J Picot, Julie A. Stanleye Antigua 1&2
Strategies for calculator active questions in the AP Precalculus classroom	Hit it Out of the Park 9-12	Join us as we take a closer look at using specific TI-84 functionality for instruction and assessment of AP Precalculus topics. You will have the opportunity to explore and use <i>free</i> TI resources that can be integrated into your classroom and enhance your instruction. TI-84 Plus CEs will be available during this session.	Ruth Casey, Margaret Bambrick Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Power of Progressions in Teaching K-12 Mathematics with Coherence & Conceptual Understanding	Featured Speaker	In order to teach equitably and to engage students in deep mathematical thinking, as teachers we need to be knowledgeable of mathematical connections and progressions. By having a firm grasp of the progressions in K-12 mathematical topics, we can serve our students more effectively by knowing the areas that are truly important in earlier grades and mathematical experiences that will follow in our school curriculum. During this session, participants will be engaged in a journey that emphasizes the power of progressions in teaching K-12 Mathematics with coherence and conceptual understanding. We will go along a journey linking fraction concepts, ratio understanding, proportional thinking to rate of change in algebraic & geometric contexts and set the stage for critical calculus concepts. Through a progression roadmap to teach mathematics with true coherence and connections, we will also share strategies for teacher teams, coaches and instructional aids to collaborate within/across grades more effectively in supporting students that may have gaps in their knowledge.	Farshid Safi Caribbean 4&5
Multiplication Fact Fluency: A School-Wide Solution	Level the Playing Field 3-5	How can students achieve a deep understanding of multiplication that allows them to develop fluency with their basic facts for multiplication that goes beyond recall to explain and justify their thinking? Experience the six strategies that make up the Fact Tactics(TM) Fluency Program designed to shift from drill-and-kill instruction to an approach that helps students make sense of multiplication while developing automaticity and procedural fluency.	Juli Dixon Caribbean 6
Increasing Teacher Content Knowledge with Videos on Demand	Everyone Needs a Coach K-2, 3-5, Leadership, General Interest	Teachers have a limited amount of time for professional learning to increase mathematical content knowledge. This session focuses on the use of just in time, short videos that are designed to provide teachers with the content knowledge needed to support their students with developing a deep understanding of mathematical concepts. Participants will experience videos created by one school district, reflect on teacher impact and how they are utilized, receive access to a wealth of completed videos, and consider how these videos might support their own growth and the growth of colleagues within their learning circles.	Bailee Murphy Caribbean 7
Math Mastery in Motion: Using Student-Led Centers for Dynamic Hands-On Learning	Level the Playing Field K-2, 3-5, Leadership, General Interest	In this immersive, hands-on session, participants will explore how student-led centers can serve as dynamic hubs of hands-on learning, where students take the reins of their mathematical journey. Through interactive demonstrations, collaborative discussions, and practical activities, educators will discover how to implement centers that foster the mathematical thinking and reasoning skills that build deep conceptual understanding, critical thinking skills, and mathematical fluency. This session will show the importance of making time for meaningful centers to foster a culture of active inquiry and exploration in the math classroom, where students are motivated to delve into mathematical concepts, collaborate with peers, and take ownership of their learning. Key topics will include: <ul style="list-style-type: none"> • Designing student-led centers to target specific mathematical concepts and skills. • Incorporating hands-on manipulatives and resources to facilitate experiential learning. • Promoting student autonomy, problem-solving abilities, and mathematical reasoning through center-based activities. Unlock the transformative power of student-led centers in any math classroom.	Brandi David Boca I

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Igniting an Understanding of Unit Rates and Slope Using Robots	Level the Playing Field 6-8, 9-12, Leadership, General Interest	Using the TI-Innovator Rover™, participants will collect data to investigate the relationship among unit rates, rate of change, and slope. Participants will collect data and complete graphing and analysis tasks to experience how the Rover can be incorporated into the classroom to engage students while developing or supporting an understanding of concepts. Participants will work in small groups to complete the lesson.	Shelli Casler-Failing Boca II
Using and Developing Open Ended Questions in Math	Level the Playing Field K-2, 3-5	Allowing students to think creatively and critically is an imperative part of an effective and meaningful math block. When students are asked open ended questions, there is no 1 correct answer which means they are offered to think flexibly about a problem. Open ended questioning in math also develops student higher order thinking, growth mindset, and challenges students to think about how they think. During this session, participants will learn what open ended questioning is, what it looks like in the K-5 math classroom, and develop a few of their own questions. They will also leave this session equipped with open ended sentence stems that can applied to mathematical standard strands.	Brigid Davidson Boca III
Elevating Student Status with Rough Draft Talk	Level the Playing Field 9-12	In this highly engaging and hands-on session, participants will put their problem-solving skills to the test as they collaborate to solve a rich math task. Teachers will have the opportunity to reflect on their own identity as a learner and how classroom status affects students as independent learners. Learning the characteristics and impact of rough draft talk followed by experiencing this strategy in a challenging math problem will allow participants to see how rough draft talk might be used in their classrooms.	Gerry Long, Ashley Boyd Boca IV
Leveraging Counting Collections to Engage Children in Problem Solving	Hit it Out of the Park K-2	High quality mathematical experiences that engage young children in play and exploration can build a foundation for student success in mathematics (Clements & Sarama, 2014). One such instructional activity that can support young children in learning the principles of counting is Counting Collections. Counting Collections asks students to do just that, count a collection of items and determine the total number of objects (Turrou et al., 2021). Children spend a considerable amount of time organizing their collection, counting them, and thinking of ways to represent their counts on paper. How might teachers leverage this activity to extend their children’s mathematical thinking? In this session, participants will engage in a Counting Collection activity and develop story problems that naturally emerge from this activity. Participants will also view videos of young children engaging in Counting Collections and consider possible follow up questions that support students in joining to, separating from, comparing, or creating groups from their collections. Counting Collections provide rich mathematical contexts that supports students sense making during problem solving.	Melissa M. Soto Boca V
Coaching Conversations	Everyone Needs a Coach K-2, 3-5, 6-8, Leadership	In this session participants will do three things. They will begin with how to connect with teachers and build trust so they can have a partnership in the coaching cycle. Through the use of specific tools and protocols coaches will gain the confidence to build the coaching and coachee relationship. Participants will then engage in possible coaching scenarios and brainstorm how to address the coachee’s needs. Finally, participants will then determine next steps for how they will improve their coaching conversations.	Christine Percy Boca VI

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Solving with Students: Amplifying Student Voices for Classroom Improvement	Everyone Needs a Coach 6-8, 9-12	Students are at the heart of the work happening in schools, but too often, they are not at the table to solve systemic problems in education. In response, some schools are embracing student voice strategies to redesign systems with students – rather than designing for students. This session will provide an overview of this “student-powered improvement” approach and share specific student voice activities to improve schools and classrooms.	Kelly Zunkiewicz Boca VII
Calendar Math in Grades 3-5: Exploring Mathematical Mastery- Spiral Review & Beyond	For the Love of the Game 3-5	Dive into the dynamic realm of calendar math tailored for grades 3-5! This session explores the multifaceted approach of spiral review, integrating small, manageable chunks of elapsed time, money, and geometry concepts into daily calendar activities. Uncover innovative strategies to reinforce core mathematical skills while nurturing a deeper understanding of shapes, angles, spatial relationships, and engaging in real-world problem-solving scenarios involving time and money concepts. Discover how spiral review cultivates retention and builds proficiency, empowering students to tackle complex mathematical challenges with confidence. Elevate your teaching toolkit and cultivate mathematical mastery in your classroom.	Lewis N. Christmas, II Boca VIII
Supporting Mathematical Discourse with Math Language Routines	Level the Playing Field K-2, 3-5, 6-8	Math language routines are routines that can be used in conjunction with mathematical tasks to support the development of disciplinary language. In this session we will examine the design principles of math language routines, consider how specific routines lend themselves to different parts of a lesson, and engage in the routines first hand to see their potential to support the mathematical learning of all students.	Zack Hill Bonaire 1&2
How to Hit it Out of the Park and Keep Knowledge	Hit it Out of the Park K-2, 3-5, 6-8, 9-12, Post-Secondary, Leadership, General Interest	Join us for our session that outlines the significance of interleaving in mathematics. Too often, mathematics is taught in isolated fragments. By surfacing and revisiting concepts in an interleaved manner, students can gradually solidify their understanding and ultimately achieve mastery. We'll investigate how the brain truly absorbs mathematical information and its impact on the retention of mathematical concepts. We will then discuss a strategy for examining existing curricula for these principles and how you can create a scope and sequence to uncomplicate mathematics for all. Attendees will leave this session equipped with a practical process for crafting a scope and sequence that integrates interleaving and aligns with any curriculum.	Ashley Doty, Megan Cox Bonaire 3&4
Do Your Students Really Understand How Multiplication Works?	For the Love of the Game 3-5, Leadership, General Interest	This session will focus on how to move students from additive to multiplicative thinking. We will be using the Visual Number Talks Dot Models to deepen the understanding of the strategies for being fluent in facts, how division is directly related to multiplication, how using the Properties of Multiplication as strategies often make the math make sense and how to use fluency strategies when memory fails you.	Pamela Smith Bonaire 5&6
Coaching to Engage - A Quick Start to Level Up Math Instruction	Everyone Needs a Coach K-2, 3-5	During this session, we will focus on presenting different ways to level up math instruction. These methods will be focus on how students are responding to text, how teachers are scaffolding instruction to better meet the students needs, as well as different strategies to level up their lesson and make math more engaging.	Javier Alfonso, Samantha Bisette Bonaire 7&8

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Empowering Learning: Leveraging FAST Assessment Data to Structure Classroom Instruction	Level the Playing Field 3-5, 6-8, Leadership	Join us for an insightful session as we delve into the details of student learning with a focus on the F.A.S.T. Assessment and i-Ready. This workshop will guide participants through a comprehensive exploration of the F.A.S.T. Detailed Summary Report, unraveling valuable insights into individual student performance and growth. The highlight of the session will be a practical demonstration of structuring classroom instruction using the i-Ready Standards Mastery (iSM) coupled with the visible learning model. Attendees will learn effective strategies to align classroom activities and interventions with the specific needs identified in by their data.	Vanessa Battreal Antigua 1&2
Use TI-84 and TI-Nspire Graphing Technology to Drive Student Success on the SAT®	Hit it Out of the Park 9-12	Join us as we discuss features of the new SAT®, test taking strategies, calculator skills, and techniques for teaching with TI graphing technology to help students better understand concepts covered on the SAT®. Leave with ideas on how to integrate SAT® practice into your math curriculum.	Beth Smith Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Multiplication: Let's Give Them Something to Talk About!	For the Love of the Game K-2, 3-5	<p>"What does it mean to carry a number? It means to write it smaller." This Q&A embodies a common misconception that surfaces when adults use the standard US algorithm for multiplication. How well adults can explain this algorithm has an impact on elementary classrooms, highlighting the way multiplication is taught for long-term conceptual mastery.</p> <p>In this session, participants will dive into nuances of how multiplication strategies are communicated. Through interactive discussions and activities, they will explore various approaches to teaching multiplication, focusing on how to convey concepts in a clear and meaningful manner. By examining different methods and their implications, participants will gain valuable insights into guiding students towards a deeper understanding of multiplication.</p> <p>By the end of the session, participants will be equipped with practical and actionable strategies to enhance their teaching of multiplication, fostering long-term mathematical proficiency.</p>	Dr. Taylor Bainter, Dr. Zandra de Araujo Caribbean 6
Building Thinking Classrooms - Let's Get Started.	Hit it Out of the Park 3-5, 6-8, 9-12	In this session you will see how Peter Liljedahl's "Building Thinking Classrooms" works and explore how you can begin to implement this exciting practice into your classroom. You'll learn how to make daily new small groups and how you can develop a strategy to work with small groups as the class progresses through a lesson.	Rose Mayr Caribbean 7
Motivating ALL Students to Become Active Players on the Math Field	Level the Playing Field K-2, 3-5, Leadership	Teachers will participate in warm-up activities designed to engage ALL students in exploring the math concept of the day. Participants will interact with a variety of manipulatives, kinesthetic activities, and fun collaborative tasks chosen to spark students' interest and develop a mathematical mindset. The facilitator will act as the coach of the team, with the participants taking on the role of players (students) to ensure strategies are deeply understood and ready to be implemented back on their home field. All participants will be winners and take home a blue-ribbon packet of materials that were used during the workshop. The activities will be adaptable and useful for all grades K-5.	Andrea Dreaden, Judy Hickman Boca I
Increasing Student Engagement in the Math Classroom	Level the Playing Field 3-5, 6-8	Participants will explore strategies to enhance excitement and foster interactive learning in the math classroom by incorporating games. Group collaboration and competition provides motivation for students to participate in the math class while increasing student engagement. This session promises to be thrilling as educators have the opportunity to engage with games that can be incorporated into their lessons. Attendees will be provided with ready-to-use slides that can be seamlessly integrated into their classrooms.	Janice Davis, Jamie Suarez Boca II
Facts, Fractions, Fluency, and Fun! The Four F-Words That Build Math Success.	Level the Playing Field 3-5, 6-8	Let's explore how to shape a growth mindset in mathematics and give all students the opportunity to love math by breaking through the traditional barriers to success. Math fact fluency and fraction fluency are the two areas that students struggle with the most, yet they are also the strongest indicators of future success in mathematics. Discover how gamification can develop critical knowledge in a way that is both fun and effective for every student.	Maria Maguire Boca III

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Tools, Not Toys: Making Manipulatives Matter	Level the Playing Field K-2, 3-5	Join me for an immersive look at using manipulatives and other great teacher tools with Kindergarten through 5th grade Mathematicians. It's easier than you think! We'll take a look at some of the common misconceptions of using manipulatives, as well as simple tips to help you start using them right away. Whatever your comfort level, I want to help you LEVEL UP your math instruction today.	Kate D'Avanzo Boca IV
"Grading for Growth: Revolutionizing Math Assessment with Standards-Based Grading"	Hit it Out of the Park K-2, 3-5, 6-8, 9-12, Post-Secondary, Leadership, General Interest	"Grading for Growth: Revolutionizing Math Assessment with Standards-Based Grading" offers educators an insightful exploration into a transformative approach to grading in mathematics. This presentation delves into the principles and practices of standards-based grading (SBG), emphasizing its potential to provide clearer feedback and promote student learning. Attendees will discover how SBG shifts the focus from grades to mastery of specific learning objectives, fostering a growth mindset and deeper understanding of mathematical concepts. Through practical examples and implementation strategies, educators will learn how to align grading practices with learning standards, effectively communicate student progress, and engage students in self-assessment and goal setting. Join us to unlock the power of standards-based grading and elevate mathematical achievement in your classroom.	Jennie Gyford Boca V
What's It Like to Become More Involved with FCTM?	Everyone Needs a Coach K-2, 3-5, 6-8, 9-12, Post-Secondary, Leadership, General Interest	Ever want to become more involved with FCTM, but don't know where to start? What's it like to be on the board or on a committee? Come learn how you can make a difference and be a part of an amazing family! Learn answers to these questions and more from current board members who will share their experiences and answer your questions in this casual, informative session. All are welcome!	Elizabeth Abel, Carrie DeNotee Boca VI
Let's Play Function of the Day!	Level the Playing Field 6-8, 9-12	Function of the Day is fun interactive bell work for math classes in middle and high school beginning with Algebra 1. It is an engaging method for teaching concepts and vocabulary related to functions which fosters verbalization and collaboration as it builds students' vocabulary, math fluency, retention, and test scores. Function of the Day can be used with Pre-Algebra, Algebra, and all levels of high school math. Learn how Function of the Day can be used in the classroom, how it will benefit students, and ways to make it fun and engaging for students. Session participants will practice methods for Function of the Day with Algebra 1 and Algebra 2 functions. Session will provide free resources to implement Function of the Day.	Debra Richardson Boca VII
Game Changer: A Novel Approach to Solving Quadratic Equations	For the Love of the Game 6-8, 9-12	Discover the underlying pattern driving this novel method. Make finding solutions to quadratic equations computationally accessible and conceptually rich. Explore proofs and demonstrations which highlight the method's validity. Engage in practical examples which seamlessly integrate into classrooms, while considering pedagogical guidance for educators.	Jake Massey Boca VIII
Using A.I. as a Teaching Tool	Level the Playing Field 9-12	A.I. can be scary as a math teacher with students being able to just "Google" the answers. What are ways as a math teacher can we embrace A.I. as a tool within the classroom instead of the "cheat".	Liz Pruitt Bonaire 1&2

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Mathematical Problem Solving for All Students	Level the Playing Field K-2, 3-5	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!	Stacey O'Conner Bonaire 3&4
Building Numeracy in Counting, Comparing, and Computing with K-2 Students	For the Love of the Game K-2, Leadership, General Interest	This session will focus on the importance of The Counting Principles and how they are directly related to building numeracy within Counting, Comparing, and Computing for K-2 students. We will model all of the strategies, using the Visual Number Talks Bars, to fully understand what it takes to have Numeracy.	Pamela Smith Bonaire 5&6
AI in the Elementary Classroom	Everyone Needs a Coach 3-5	Have you been hearing all about AI? We all have and many of us are not sure about it and probably a little scared. Well, it's here to stay so we need to learn how to make it work for us. AI can be used in schools by teachers to help make things quicker and easier. This session will be for those who would like to start using AI but don't know where to even start. We will go over some different sites that could help you in your math class while helping you save time and make lessons more engaging. AI can be our math friend and we will work together to see how!	Tim Ruddy, Natalie Muldoon Bonaire 7&8
Take Me Out to the Math G.A.M.E.S	Level the Playing Field K-2	Reaching all learners with G.A.M.E.S (Get All Mathematicians Engaged & Strategizing). Education stakeholders will dive into the benefits of including GAMES in their daily planning. Discuss how to provide scaffolds based on student needs to progress them towards mastery of content.	Adrianna Hunt, Hen Warner Antigua 1&2
Using Technology in Algebra to Build Confidence and Conceptual Understanding	Hit it Out of the Park 9-12	Participants will experience algebra topics using graphing calculator technology to allow learners to experience multiple representations of functions and transformations with graphical, numerical, and algebraic connections. The use of technology as a tool enhances the means of successful problem solving and understanding for different learning styles. TI-84 Plus CE graphing calculators will be available for use at the session.	Margaret Bambrick, Ruth Casey Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Be curious, not judgmental	Featured Speaker	Many students think their role is to produce answers. When we measure success by rightness/wrongness, many students lose hope and decide math is not for them. Let's flip this script by empowering students -and teachers- to be curious, using questions and differentiated extensions to get students unstuck and help them become confident math thinkers. The spirit of this session is to embrace a mindset of "teaching by asking rather than teaching by telling."	Dr. Raj Shah Caribbean 4&5
How Mathematics Grows with the Learner	For the Love of the Game K-2, 3-5, 6-8	The presenter has identified mathematics concepts (e.g., Pythagorean Theorem, Triangle Inequality Theorem, Euler's Formula, Pick's Theorem, select area formulas) to demonstrate the progression of mathematical ideas from Grade K to Grade 8. Participants will have an opportunity to engage collaboratively and hands-on to explore these concepts.	Thomasonia Lott Adams Caribbean 6
Building Thinking Classrooms	Level the Playing Field 6-8, 9-12, Post-Secondary, Leadership, General Interest	This training is built around the research of Peter Liljedahl and his book "Building Thinking Classrooms in Mathematics." His research led to a framework for organizing your classroom involving 14 principles used to help teachers structure their math classes around student thinking. The principles contain corresponding optimal pedagogies that offer a prescriptive framework for teachers to build a thinking classroom.	Christopher Collins Caribbean 7
Engaging in Equitable Student Centered Learning	Level the Playing Field K-2, 3-5, 6-8	In this session participants will engage in mathematics using strategies and methods in which they can relate to. Then, using the participants' understanding, they will engage in protocols that allow each of them to have a voice in showcasing their strategies/methods. Of the three protocols used in this session participants will be able to engage with a partner, triad, and across groups.	Christine Percy, Meghan Martinez Boca I
Let's Investigate Open Tasks and Invite ALL Students to the Math!	Level the Playing Field K-2, 3-5, 6-8	Let's investigate open tasks that invite all students into the math. Using the 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 elicit productive struggle to activate prior and emerging understandings with ease in your classroom and have some fun while we are at it!	Ricardo Sinclair, Kristina DeValle Boca II
Do You Question Your Questions? An Exploration of Ways to Generate Intentional & Effective Questions	Level the Playing Field 3-5, 6-8, 9-12	Asking the right questions can lead to a learning environment that facilitates productive struggle and helps students to make sense of mathematics. In this session, we will explore questioning strategies to check for students' mathematics understanding and misconceptions while connecting to research from Making Sense of Mathematics for Teaching to Inform Instructional Quality and The Math Pact. Participants will reflect on their own instructional practice and explore a Framework for Different Types of Questions that promote mathematical thinking and reasoning. Applying questioning strategies, participants will practice transforming traditional questions into tasks that promote high cognitive demand using reversibility, flexibility, and generalization at the elementary, middle, and high school levels. Effective student questioning is an engagement strategy that enables students to take charge of their own learning and supports deepening mathematics reasoning to solve problems.	Kelly Penny, Julia Keith Boca III

Session Title	Theme/ Audience	Description	Speaker(s) & Room
<p>Math Kangaroo Introduction to K-12 Educators - Everyday Math Enrichment</p>	<p>Level the Playing Field K-2, 3-5, 6-8, 9- 12</p>	<p>In this session, participants will delve into Math Kangaroo's comprehensive mission, spanning from kindergarten to 12th grade. We'll embark on a journey through Math Kangaroo USA's rich history, exploring its evolution to its current status. An in-depth discussion will ensue, highlighting the manifold benefits of Math Kangaroo, including the cultivation of critical thinking, problem-solving prowess, and confidence-building among students. Educator resources, such as workshops and meticulously crafted lesson plans, will be reviewed. Furthermore, participants will be able to uncover the plethora of diverse opportunities offered by Math Kangaroo USA, ranging from invaluable learning resources to volunteer roles, scholarships, and captivating camps. Sample questions will be shared, accompanied by inspiring success stories, and potential challenges will be thoughtfully addressed. Through collaborative brainstorming, integration strategies will be explored, fostering an environment conducive to dynamic learning and growth. An interactive Q&A session will illuminate how Math Kangaroo empowers students and champions equitable math enrichment. Don't miss out on this enlightening session!</p>	<p>Margarita Azbel Boca IV</p>
<p>Stepping Stones to Success: Leveraging Algebra Tiles to Make Connections in Mathematics</p>	<p>Hit it Out of the Park 6-8, 9-12</p>	<p>Looking for ways to seamlessly bridge the gap between elementary arithmetic and high school algebra? Join us for an eye-opening session where we'll investigate one strategy: using algebra tiles! Explore how algebra tiles serve as powerful connections, linking foundational concepts from lower grades to the complexities of high school mathematics. Discover practical strategies to utilize algebra tiles effectively across grade levels, building upon prior learning, creating a seamless learning journey for students. This session will pair the use of manipulatives with innovative techniques and free CPALMS resources to enhance instruction, foster deep understanding, and promote vertical progression in mathematics education.</p>	<p>Kaniesha Clark, Robert Hanna Boca V</p>
<p>Empowering Math Leaders through Effective Feedback: Harnessing the Strength of Feedforward</p>	<p>Everyone Needs a Coach Leadership</p>	<p>Math leaders are vital to a school's success. How can coaches, administration, and district leaders build and maintain school-based math leaders? In this session, we will define a math leader, explore strategies to build capacity, and propose next steps for site-based and district leaders. Rooted in the coaching domain, this session equips participants with tools to empower both coaches and math leaders. Through interactive role-playing exercises and collaborative discussions, attendees will refine their coaching abilities and explore concrete methods for fostering math leadership. Additionally, practical frameworks and protocols will be provided to facilitate the observation and feedback process for identifying potential math leaders amidst busy schedules. Effective coaching is a driver of continuous improvement and is necessary for math leaders to enhance their skills and strengthen math instruction. Through these activities, participants will begin to create a structure to identify, train and maintain math leaders in their schools.</p>	<p>Chad Dorrell, Lesley Lynn Boca VI</p>
<p>AI-Powered Math Planning: Leveraging AI to Streamline K-5 Math Content Delivery</p>	<p>Hit it Out of the Park K-2, 3-5</p>	<p>Effectively planning and delivering engaging K-5 math instruction is demanding on teachers' time and expertise. In this session, participants will explore how AI tools can support more efficient and targeted math content planning and instructional delivery.</p>	<p>Julie A. Stanley, Christine J. Picote Boca VII</p>

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Hands-on Learning for Teachers: Building a Fluency Routine for Success	For the Love of the Game K-2, 3-5	Discover the power of number strings and math talks in enhancing student math fluency! Join me for a hands-on workshop where you will learn how to implement these dynamic routines effectively. Explore additive and multiplicative strategies through structured sequences of problems that foster mathematical discourse for deeper understanding and gain practical tools to promote mathematical success in your classroom.	Brittany Goerig Boca VIII
To Creativity and Beyond! Implications for Teaching Mathematics Classroom	Level the Playing Field General Interest	While we may never find the formula for creativity, there is a lot that we have learned about what goes into the creative process, and how each one of us can optimize our own and our students' creative ability. The stages of the creative process flow logically from one state to another. As you embark on your own creative process, you may unleash your mind and let your ideas grow through these stages of creativity. We will have opportunities to assess and exercise our creative thinking. In this presentation, we will discuss possible steps and several strategies as it related to the mathematics learning process. How can we incorporate creativity in the mathematics classrooms? How is creativity related to the mathematics process standards and the problem-solving process?	Enrique Ortiz Bonaire 1&2
Take Me Out to the Math G.A.M.E.S	Level the Playing Field 3-5	Reaching all learners with G.A.M.E.S (Get All Mathematicians Engaged & Strategizing). Education stakeholders will dive into the benefits of including GAMES in their daily planning. Discuss how to provide scaffolds based on student needs to progress them towards mastery of content.	Adrianna Hunt, Jen Warner Bonaire 3&4
Digging into Differentiation	For the Love of the Game 6-8	Dr. Carl Williams (Assistant Principal) and Mr. Kevin Corwin (Former Math Department Head) will present a differentiation model that is used at their school, Sarasota School of Arts and Sciences, which has proven successful in making every student relevant along the way of raising math scores. The Sarasota School of Arts and Sciences is the original charter school of Sarasota County and has been an A rated school since 2006!	Carl Williams, Kevin Corwin Bonaire 5&6
Leveraging AI in the Mathematics Classroom	Everyone Needs a Coach 6-8, 9-12, Leadership, General Interest	During this interactive session, participants will discuss how they can leverage ChatGPT to differentiate their instruction (linear functions in the form $y=mx+b$) in its three areas: content, process, and products. In order to encourage teachers to be proactive learners in their interaction with AI, the "SRL-SRT" framework will be used; teachers' self-regulation of their own learning as learners (SRL) and their self-regulation of teaching practice as self-regulated teachers (SRT). Participants will discuss what important features are for developing an understanding of linear functions, and what challenges they might face when implementing them. Based on the "SRL-SRT" model, 4 categories of question prompts will be used: Comprehension, connection, strategy and reflection prompts. They will learn how use ChatGPT to differentiate their instruction. For example how they can generate problem sets based on a student's individual needs. How they can create real-world and open-ended problem-solving scenarios for linear functions by using ChatGPT. Finally, participants will evaluate their interaction with AI by thinking about their prompts, Chat GPT's responses, and their decisions.	Maral Karimi, Farshid Safi, Aline Zghayyar Abassian, Luisa Placido Bonaire 7&8

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Equalizing the Game: Empowering Every Player with Total Participation Techniques	Level the Playing Field K-2, 3-5, 6-8, 9-12	Join our session dedicated to enhancing student engagement through the Mathematical Thinking and Reasoning Standards (MTRs). We will discuss the power of total participation techniques in fostering active learning environments where every student is engaged, accountable, and challenged. Throughout this session we will practice strategies to stimulate critical thinking and promote accountability for mathematical reasoning. We will also utilize real-time monitoring techniques to provide timely feedback, enabling responsive reaching practices. Participants will leave with several strategies to implement during week one of instruction.	Ashley Doty, Megan Cox Antigua 1&2
AP® Precalculus Brings Modeling to Life!	Hit it Out of the Park 9-12	Whew! Made it through the first year of AP® Precalculus.. Participants will have the opportunity to practice AP Precalculus free response and multiple-choice questions that are enhanced using graphing technology. Function types explored may include polynomial, piecewise-defined, exponential, and logarithmic (Units 1 and 2). This will include analysis of average rates of change in the context of the problem. Handheld technology from the TI-Nspire and TI-84 CE family will be available during the session. A snippet from what was learned at the first AP Precalculus Reading, including best practices and other professional development will be discussed. All secondary teachers are welcome to check out this new course.	Margaret Bambrick, Ruth Casey Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Six (Un)Productive Practices in Mathematics Teaching	Featured Speaker	Juli Dixon reveals six ways we undermine efforts to increase student achievement and then she goes on to share what to do about them. These teaching practices are commonplace and often required by administrators. Many of them may have been generated from practices in English language arts (ELA) and might work very well in that content area. As a result of this session, you will understand that they are often unproductive when applied during mathematics instruction and may even lead to issues of access and equity. This session helps you to see why these practices are unproductive and assists you in generating a plan for what to do about them.	Dr. Juli Dixon Caribbean 4&5
The Power of Grit in the Math Classroom!	Everyone Needs a Coach K-2, 3-5, 6-8, 9-12, Post-Secondary, Leadership, General Interest	Low graduation rates among at-risk students remains a concern to education policymakers and practitioners. With 2 million students dropping out of schools, and 2022 NAEP data revealing a national decline in math scores, this has affected underserved students' abilities to dare to dream big in the math classroom. Dr. White's G.R.I.T. Framework will provide educators with the tools needed to thrive in relationship building with students. This presentation will highlight main takeaways of Dr. India White's TEDx Talk on "The Power of G.R.I.T." and will feature tangible strategies that educators can use to incorporate grit in ways that will produce measurable results and break down invisible barriers between students and their teachers. Attendees will walk away with a greater understanding of how they can connect with their students and motivate them to dream while exceling in math class. As the information from this presentation, the G.R.I.T. Framework, and educator workbook is applied, attendees will notice students will have with a greater sense of belonging, math identity, and greater results in persistence, causing an overall improvement in academic achievement.	India White Caribbean 6
Coaching for Tough Talks: Facilitating Challenging Conversations	Everyone Needs a Coach K-2, 3-5, Leadership	This session focuses on the multifaceted role of coaching teachers and peers, delving into the challenges and opportunities inherent in this vital position. Participants will gain insights into crafting questions that foster thoughtful reflection rather than manipulation of thinking. Through interactive activities, attendees will hone the essential skills required to adeptly navigate challenging conversations. The session employs a diverse range of perspectives and interactive exercises, offering coaches a practical and immersive experience in handling the complex situations that arise in coaching interactions. From mediating thinking to mastering the art of dialogue, this proposal promises a dynamic and hands-on exploration of the nuanced responsibilities involved in coaching, equipping participants with actionable strategies to enhance their effectiveness in guiding and supporting others.	TJ Jemison Caribbean 7
Developing a Cheat Sheet: A game plan for MATH success for struggling students	Level the Playing Field 3-5, 6-8, 9-12, Leadership, General Interest	Using proven test taking and anxiety reducing strategies designed to help underperforming students show that they know. Attendees will walk away with actionable methods to help their students build confidence and enhance student performance on assessments.	Travis Hall Boca I

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Building Fluency in Grades K-2 with Games	Level the Playing Field K-2	During this session participants will explore fun and engaging fluency games that can be easily adapted to support all learners. The games shared will promote mathematical discourse and reasoning skills. Participants will be provided with directions and gameboards for all games.	Sandra Davis, Natasha Fedore Boca II
Vocabulary or Experience: The Geometry Conundrum	Level the Playing Field K-2, 3-5, 6-8	Participants will encounter Geometry benchmarks from the BEST Standards using manipulatives and or experiences to develop a deeper understanding of how important hands-on-activities are when learning Geometry skills.	Karina Moran Boca III
A Link in the Chain: An Elementary Mathematics Teacher's Role in an Algebra 1 Student's Success	For the Love of the Game 3-5, 6-8, Leadership, General Interest	All mathematics classes build a foundation toward mathematical literacy, creating a chain connecting concepts each year. With algebraic understanding and reasoning permeating many essential concepts that a student should learn before graduating high school, all teachers play a hand in an Algebra 1 student's success. Elementary school teachers are pivotal in shaping students' understanding and fluency in critical concepts such as number sense, patterns, and structure. The focus of the presentation is to equip teachers and leaders with an understanding of the importance of the role of an elementary school mathematics teacher in preparing a student for Algebra 1. As mathematics teacher leaders, we have collaborated with colleagues who may need help understanding the significance of vertical alignment. Through our research and classroom experience, we plan to present our findings and provide guidance on best practices. We will examine specific concepts in supporting student understanding of Algebra and explore correlations from elementary benchmarks to assessed content in Algebra.	Julia Keith, Laura Pimentel Boca IV
Equation Yoga: From Equivalence to Flexibility	Hit it Out of the Park 6-8, 9-12	<p>In real life, problems rarely fit a single mold. Being flexible helps students see problems from different angles and think about different ways to solve them. This session is focused on empowering students to understand how to approach linear equations with flexibility and confidence.</p> <p>In this session, participants will begin by exploring techniques to help students better grasp the concept of equivalence, laying a solid foundation for solving equations. Then, they will explore a variety of strategies to help students flexibly move between methods for solving equations. By examining different methods and their implications, participants will gain valuable insights into guiding students towards a deeper understanding of solving equations in diverse contexts.</p> <p>Participants will use real student work and classroom videos to develop practical strategies that can be implemented to support their students' growth and comprehension of solving equations.</p>	Dr. Taylor Bainter, Dr. Zandra de Araujo Boca V
Mashed Math Masters – Primary Edition (K-2)	Level the Playing Field K-2	Local educators call on their creative skills as they face off against one another to prepare a spectacular instructional task or center. The catch? They have to use all the ingredients provided to them, however unlikely they might be (pipe cleaners, anyone?). At the end guest judges taste each creation and decide who measures up in terms of alignment, differentiation and creativity. The last team standing takes home bragging rights as the newest Mashed~ Math Masters! This session will be focused on K-2 benchmarks.	Erica Jamie Baker; Jennifer Corey; Elaine Ragley Boca VI

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Planning for School Improvement in Math with the 5 Conditions	Everyone Needs a Coach Leadership	Are your school improvement efforts falling flat? In this session, we will share the 5 Conditions that Support Great Teaching and planning for each can lead to coherent implementation. Participants will leave with a planning protocol to help schools and systems plan for implementation.	Katelyn Devine Boca VII
Transform Problem Performers into Problem Solvers	Level the Playing Field K-2, 3-5	Come explore ways to help your students become problem solvers instead of problem performers. We will explore different modalities of problems that will help students focus on understanding. Through engaging activities and problem-solving exercises, participants will explore ways to guide students towards a comprehensive routine to problem-solving. The emphasis on comprehension and mathematical reasoning will help teachers empower their students to become adept problem solvers who confidently tackle math problems.	Brittany Goerig Boca VIII
Why we love using NumWorks in our Classroom	Level the Playing Field 9-12	Getting Started with NumWorks - The NumWorks calculator is simple yet powerful, giving students all of the tools they need to be successful in their courses from middle school to college!	Dana Champion, Kate Keating Bonaire 1&2
Differentiate the Question, Not the Task	Hit it Out of the Park 6-8, General Interest	All students deserve to experience cognitively demanding tasks regardless of their background knowledge. Participants will explore how to better build students' mathematical understanding, increase their confidence, and support their mathematical identities as doers of mathematics. Join us in exploring how to differentiate questions to support productive struggle while maintaining the rigor of a rich task.	Ashley Boyd, Gerry Long Bonaire 3&4
10 Days to Multiplication Mastery	For the Love of the Game 3-5	Help your students learn their Math Facts in short order through understanding the power of Commutative Properties and FUN methods of practice.	Rich Stuart Bonaire 5&6
Connecting Conceptual Understanding AND Procedural Fluency in Secondary Grades	Hit it Out of the Park 9-12	In this session, we will discuss how to establish the connection between procedural fluency and conceptual understanding; explore the ways in which tasks can be sequenced to promote conceptual understanding first, and then build procedural fluency; and reflect on building procedural fluency from conceptual understanding in the classroom.	Aline Abassian, Farshid Safi Bonaire 7&8
Concrete-Representational-Abstract (OH MY!). The CRA Model in your Middle	Level the Playing Field 6-8	What is the CRA Model and how can I use it in my classroom to enhance my student engagement and understanding? These are the questions we aim to answer in this session! Through the lens of solving one-, two-, and multi-step equations, participants will explore the full Concrete-Representational-Abstract approach to Mathematical Instruction for 6th through 8th grade	Trevor Fancher Antigua 1&2
Transformational Geometry – Leveraging the Power of TI-Nspire	Hit it Out of the Park 6-8, 9-12, General Interest	Use <i>free</i> TI resources including videos, classroom activities and TI-Nspire premade files to move beyond formulas to explore transformational geometry. We will have TI-Nspire CX IIs for use during the session. You may wish to bring your internet-ready computer to access the online version of the TI-Nspire CX II.	Beth Smith Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Enhancing K-5 Numeracy Skills: 5 Tips for Developing a Deep Understanding of Numbers	Featured Speaker	K-5 educators strive to enhance students' number skills and nurture their number sense in preparation for the challenges of middle grades mathematics and beyond. Explore five critical considerations for designing high-quality learning experiences to expand students' numeracy skills. Examine the selection of essential number skills, the power of student-created models, the importance of thoughtful math talk, the benefits of attending to learning progressions, and the value of carefully-crafted classroom centers to provide purposeful practice. Leave this session with a plan for selecting, or designing, impactful and differentiated learning experiences that deepen K-5 students' understanding of numbers!	Susan O'Connell Caribbean 4&5
What can we do with just a compass and a straightedge?	For the Love of the Game 9-12	Join this workshop as we delve into the fascinating world of formal constructions, from the way they were used by the Ancient Greeks to applications that go beyond the conventional. In this engaging session, you will discover creative uses of a compass and a straightedge to illuminate geometric concepts and inspire a deeper understanding. Discover imaginative ways to leverage the compass and transform your classroom and empower your students with a fresh perspective on geometric exploration.	Ana Gonzalez Enriquez Caribbean 6
Visible Voices - Leveraging Student Insight in K-12 Data Chats	Level the Playing Field K-2, 3-5, 6-8, 9-12	K-12 mathematics students often receive a test score and just move on to the next unit of instruction. Supervisors from the seventh largest district in the nation challenge their teachers to disrupt the status quo by infusing student voices and reflection in the data chat process. Learn how this change positively impacts teacher practice, student attitudes, and achievement. Participants will analyze data, witness the process in action and leave with templates to support implementation in their K-12 mathematics classrooms.	Gail Stewart, Jack Fahle, Elise Tannere Caribbean 7
Acceleration: is it right for you?	Level the Playing Field 6-8, 9-12	During this session we will explore what the current acceleration options are for students in Florida. We will also look at the implications of acceleration from the standpoint of school grades in Florida. Furthermore, we will discuss some talking points that are important for students, families, and teachers to be aware of as we talk about accelerated math options for students.	Louise Bossardet Boca I
Creating Equitable Access in Math to Impact All Students	Level the Playing Field K-2, 3-5, 6-8	The real work in building a love of math is to envision learning in ways that reach all students, including English language learners. Explore an innovative approach to math instruction that can empower all students. Encouraging students to have new experiences is integral to deeper learning and sets the stage for equitable impact. By leveraging the brain's innate spatial-temporal reasoning ability, we can create a learning environment that transcends language barriers.	Dr. Pedro Cevallos Boca II
Mastering Math Through Representation: Empowering Young Minds to Solve Problems Visually	Level the Playing Field K-2, 3-5, General Interest	Are your K-5 students struggling to make sense of real-world word problems? Join our session on Representational Problem Solving! Learn how model drawing helps K-5 students visualize real-world problems, leading to critical thinking and problem-solving confidence. Master research-based strategies, develop your model drawing skills, and gain tips to reach every learner. Leave empowering your students to become independent, confident problem-solvers – ready to tackle any math word problem.	Stephanie Sheiman, Lane Wilcox Boca III

Session Title	Theme/ Audience	Description	Speaker(s) & Room
RICH TALK	For the Love of the Game 6-8, 9-12, Leadership, General Interest	The importance of vertical alignment of math instructors to help to close the achievement gap. pushing enriching conversations amongst educators, department heads and overall leadership to meet the end goal of the best standards and identify school specific or even region specific gaps, issues or inconsistencies	Katrice Dixon, Laquandra Golf, Tawanna Rowe, Tawanna Rowe Boca IV
Grab Your Toolkit! We're Building A Math Thinking Classroom!	Hit it Out of the Park K-2	"All students are deserving of having rich mathematical experiences" Petert Liljedahl wrote Building A Thinking Classroom in Mathematics to empower teachers and students through 14 teaching practices for enhancing learning and providing these experiences. Essential Question: How do I begin to build an elementary thinking classroom? Participants will learn about the first three practices and build their toolkit for implementing these in their classrooms. Participants will learn about curricular and non curricular tasks. Participants will leave the session with the resources they will need to begin building their own math thinking classroom.	Bonnie Brockhoff, Elizabeth Rosado Boca V
Mashed Math Masters – Intermediate Edition (3-5)	Level the Playing Field 3-5	Local educators call on their creative skills as they face off against one another to prepare a spectacular instructional task or center. The catch? They have to use all the ingredients provided to them, however unlikely they might be (pipe cleaners, anyone?). At the end guest judges taste each creation and decide who measures up in terms of alignment, differentiation and creativity. The last team standing takes home bragging rights as the newest Mashed~ Math Masters! This session will be focused on 3-5 benchmarks.	Jamie Erica Brink; Jennifer Corey; Elaine Ragleye Boca VI
Coaching Shifts to Empower Educators to Inspire Students:	Everyone Needs a Coach K-2, 3-5, 6-8, Leadership	In this session, we will delve into innovative approaches that empower educators to elevate their teaching craft and foster student success. As our educational landscape evolves, instructional coaching becomes increasingly vital in supporting teachers (and each other) on their professional journey. This session aims to equip math coaches, coordinators, educators, and others interested with practical tools and insights to enhance their coaching practices. From fostering a growth mindset to leveraging the principal as partner, participants will gain a comprehensive understanding of effective coaching. The session kicks off with an exploration of instructional coaching, emphasizing the importance of building strong teacher-coach relationships. Attendees will learn how to create a collaborative and supportive coaching environment that encourages open communication and mutual respect. Then, we will delve into strategies for promoting a growth mindset among educators. By understanding the psychology behind mindset shifts, participants will discover how to inspire teachers to embrace challenges, persist through setbacks, and continuously seek opportunities for professional development.	Kristal Funk Boca VII

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Covering our Bases: Igniting Students' Love of Math	For the Love of the Game K-2, 3-5	<p>This presentation from two doctoral candidates and full time classroom teachers focuses on streamlining elementary teachers' use of manipulatives across multiple grade levels to enhance building students' conceptual understanding of mathematics. Intentional use of manipulatives starts with the teacher preparing the 'playbook'. This involves teacher moves such as task selection, purposeful questioning and probing student thinking. This session will engage participants through K - 5 tasks, using common manipulatives.</p> <p>Participants will increase awareness on how conceptual understanding builds across grades levels at the elementary level. They will leave this session with tasks to bring back to their own schools, as well as the knowledge to build conceptual understanding in all students.</p>	Deborah Blakeslee, Maria Porras Monroy Boca VIII
NumWorks 101 for AP Classes: A Teacher's viewpoint?	Level the Playing Field 9-12	NumWorks is a modern and intuitive graphing calculator designed to empower students to explore and discover mathematics. This session will demonstrate how NumWorks is an essential tool for our AP PreCalculus, AP Calculus, and AP Statistics students.	Dana Champion, Kate Keating Bonaire 1&2
Gizmos for Reinforcement, Remediation & Enrichment	Hit it Out of the Park 6-8, 9-12	Math topics come to life and student depth of understanding soar when using online simulations to introduce, develop and expand conceptual understanding. Participants will experience how the incorporation of live simulations builds students conceptual understanding of many secondary math concepts. Instructional strategies will include how to use Gizmos for remediation, reinforcement, and enrichment. In addition, this interactive, hands-on session will provide participants with multiple opportunities to interact as a teacher and as a student to see Gizmos at work from different angles, pun intended.	Illka Slater Bonaire 3&4
Don't Be a Coach Blocker! Strategic Coaching Advocacy - Aligning Administration with Your Objectives	Everyone Needs a Coach K-2, 3-5, General Interest	<p>To create positive and lasting change that cultivates a culture of reflection, refinement, and action, there needs to be both light and heat. Coaches provide the "light," and administrators/leadership provide the (appropriate) "heat." There needs to be symbiosis between the light and heat in order to impact change.</p> <p>We want to energize educators to cultivate continuous improvement in mathematical learning for teachers and students in their own schools and districts. To leverage coaching as a vehicle for change, there needs to be harmonization among the school and district leadership's vision of what coaching in a school looks like and the day-to-day tasks that coaches are given. Our discussion aims to empower mathematical leaders like you, providing a roadmap to navigate the intricate intersection of coaching and administration. This interactive session will engage attendees to participate in the discussion in a variety of ways using real-world experiences and equipping them with actionable tools. Join us on this journey of empowerment as we collectively elevate our mathematical leadership and inspire positive transformations in our educational communities.</p>	Tjemison, Laura Tomase Bonaire 5&6

Session Title	Theme/ Audience	Description	Speaker(s) & Room
There's a Manipulative for That!	Level the Playing Field K-2, 3-5, 6-8	How can we use manipulatives to improve student achievement in mathematics, especially our lower achieving learners? Students with learning disabilities and English language learners often benefit from multi-sensory learning experiences. The effective use of manipulatives allows these students to interact with mathematical concepts, making abstract ideas more concrete and accessible. During this session, you will experience firsthand how these tools can enhance math instruction, discuss how to integrate manipulatives into your instruction, and how to scaffold learning experiences by gradually transitioning from concrete manipulatives to more abstract representations through the CRA model.	Martin Niebauer, Amanda Foggie Bonaire 7&8
Enhancing High School Mathematics Through the CRA Model	Level the Playing Field 9-12, Post-Secondary	The CRA Model is particularly effective in establishing strong foundational understanding of mathematical concepts. But how can you use it in YOUR Classroom? In this session, we will answer this question (and more!) when we explore the CRA model of instruction. Through the lens of Completing the Square, we will explore Algebra Tiles and the Area Model and how they connect to the formal algorithm.	Trevor Fancher Antigua 1&2
Leveraging the power of TI resources in your AP Calculus classroom	Hit it Out of the Park 9-12	In this session you will use TI technology and resources as we explore strategies to help students build conceptual understanding of topics in Calculus. Learn how <i>free</i> resources from Texas Instruments can be used with multiple technologies in your classroom to enhance instruction. TI-84 Plus CEs and TI-Nspire CX IIs will be available during this session.	Margaret Bambrick, Ruth Casey Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
What in the Real World?!	Featured Speaker	The BEST standards mention “real-world context” or “real-world problems” throughout the standards for Grades 6-8, Algebra 1, Geometry, and Algebra 2. Establishing curiosity about the connections of the mathematics students are studying to the real-world builds from a teacher’s own wonder. Noticing the mathematics in data, food packaging, and other resources can help you lead your students to explore and ask questions. The session will provide you with scaffolding to learn how to write and ask standards-focused questions from what you and your students notice.	Terri Sebring Caribbean 4&5
Mirror, Mirror on the Wall...	For the Love of the Game 9-12	Who's the fairest quadrilateral of them all?! Students can feel lost in the Dark Forest trying to memorize which properties apply to which quadrilateral. Help them find their way with the Seven Dwarfs of Conceptual Quadrilateral Understanding! We'll explore how to use Symmetry, Transformations, Card Games, Grids, Manipulatives, Patty Paper, and Geogebra to develop conceptual understanding of quadrilateral properties and defeat the Evil Queen of Memorization!	Miriam Amatangelo Bonaire 5&6
All I Really Need to Know About Algebra, I Learned in Kindergarten	For the Love of the Game K-2, 3-5, 6-8	Author Robert Fulghum understood the importance of building a solid foundation for learning. He wrote about empowering all children to reach their full potential. This lively session will focus on the progression of algebraic reasoning from early years to intermediate grades. Participants will engage in practice-rich activities that foster student thinking. Manipulatives, literature, and appropriate technology will be integrated to build conceptual understanding and procedural fluency. Hands-on activities, formative assessment strategies, authentic student work samples that reflect diversity, and related discourse will show the Mathematical Thinking and Reasoning Standards in practice for ALL students. Participants will leave with ready-to-adapt ideas and lessons for their classrooms.	Chris Ruda Bonaire 7&8
Dream 2B: Inclusive Math Fraction Instruction via Game-based Learning	Level the Playing Field 3-5, Leadership, General Interest	This session explores Dream 2B, an innovative, NSF-funded game designed to enhance fraction understanding in 4th to 5th graders, particularly those with mathematical learning challenges. Through universal design principles and engaging game-based learning, Dream 2B aims to make complex mathematical concepts accessible and engaging for all students. Participants will learn about the game's development, its pedagogical underpinnings, and how it can be integrated into diverse learning environments to support inclusive education.	Kenneth Holman Boca I
Calendar Math in Grades K-2: Exploring Mathematical Mastery- Spiral Review & Beyond	For the Love of the Game K-2	Dive into the dynamic realm of calendar math tailored for grades K-2! This session explores the multifaceted approach of spiral review, integrating small, manageable chunks of elapsed time, money, and geometry concepts into daily calendar activities. Uncover innovative strategies to reinforce core mathematical skills while nurturing a deeper understanding of shapes, angles, spatial relationships, and engaging in real-world problem-solving scenarios involving time and money concepts. Discover how spiral review cultivates retention and builds proficiency, empowering students to tackle complex mathematical challenges with confidence. Elevate your teaching toolkit and cultivate mathematical mastery in your classroom.	Lewis N. Christmas, II Boca II
Toss the Script: Solutions First, Then Solve!	Level the Playing Field K-2, 3-5	What does “good” whole group and small group math instruction look like while ensuring a sound learning experience for each of our students? Shifting from the race of answer getting to sense making, this session includes a discussion about managing the Math Block with focus on small groups and reducing students’ “smoke screen” noise. Attendees will walk away with ideas that can be implemented in their classrooms the next day.	Shruti Raman Boca III

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Math Anxiety Affects Accelerated Learners Too! How to Rebuild a Student's Mathematical Identity	Level the Playing Field 3-5, 6-8, 9-12, Leadership, General Interest	A student's mathematical identity and how they situate themselves as a mathematical learner are framed by their early experiences and interactions with mathematics. Mathematics anxiety can alter a student's attitude towards the content, detouring academic pursuits and career choices. Beginning as early as first grade, mathematics anxiety can cause students to develop negative self-perceptions about their mathematical ability. Accelerated learners are not devoid of confidence issues and struggles with mathematical identity. With students being accelerated into high school math courses in middle school, such as Algebra 1, our learners may have gaps in essential knowledge that predicate the content of future math courses. Students who may have a positive self-perception of their mathematical ability may become overwhelmed with the increase in content complexity, causing a shift in how they view themselves as mathematical learners. As mathematics teachers and leaders, how can we help students reframe the struggle and rebuild their mathematical identity?	Julia Keith Boca IV
Equal Sign Explorations: Strengthening Primary Math Foundations	Hit it Out of the Park K-2	Delve into K-2 Algebraic Reasoning benchmarks, focusing on understanding the equal sign. Uncover common student misconceptions, leverage free CPALMS resources, and engage in hands-on activities ideal for classroom implementation. Equip yourself with practical tools to enhance instruction and empower young learners. Join us for an interactive session tailored for primary grade teachers seeking to strengthen student understanding of the meaning of the equal sign and lay the groundwork for future success in Algebra.	Ashley French, Heather French Boca V
Wholly Fractions! Using Multiple Representations with Hands-On Tools to Develop Deep Fraction Sense	For the Love of the Game 3-5, Leadership, General Interest	<p>In this engaging session, participants will explore the power of using multiple representations alongside hands-on tools to cultivate deep understanding and proficiency with fractions among students. Through this interactive, hands-on experience, educators will discover how to bring fractions to life in the classroom, making them accessible and meaningful for all learners.</p> <p>Key topics include:</p> <ul style="list-style-type: none"> • Understanding the importance of developing deep fraction sense through multiple representations. • Exploring a variety of hands-on tools and manipulatives, such as Cuisenaire® Rods, Rainbow® Fraction Circles, and pattern blocks, to visualize and conceptualize fractions. • Participating in engaging activities and lessons that integrate multiple representations and hands-on experiences to reinforce fraction concepts and skills. • Addressing common misconceptions and leveraging multiple representations to promote clarity and mastery of fractions. <p>Participants will be equipped with practical strategies, resources, and insights to enhance their fraction instruction and empower students to develop a robust understanding of fractions beyond procedural fluency to deep conceptual understanding.</p>	Brandi David Boca VI

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Mathematical Engagement and Perception through Modeling: Extending Beyond the Classroom	Level the Playing Field 6-8	Our research explores the impact of mathematical modeling on students' perceptions of math's relevance to their lives and communities. Employing Social Constructivism as a theoretical framework, the research involved interviews with 21 seventh graders participating in a modeling program. Analysis revealed that modeling tasks enhanced students' appreciation for math through collaboration, real-world problem-solving, and reflective thinking. Results underscored the value of integrating mathematical modeling in education to bridge the gap between theoretical knowledge and practical application, highlighting the transformative potential of math in addressing community needs and fostering life skills. The study acknowledges limitations in sample diversity and project scope, recommending broader future research to further validate findings and explore the benefits of mathematical modeling across diverse educational settings.	Hongze (Devon) Zhu, Empowering and Interactive Mathematical Modeling Team from UF and Southern Methodist University Boca VII
Standards-Based Grading	Everyone Needs a Coach K-2, 3-5, 6-8, 9-12, Post-Secondary, Leadership, General Interest	Transforming Education: Navigating the Landscape with Standards-Based Grading	Jennie Gyford Boca VIII
Using Technology in Algebra to Build Confidence and Conceptual Understanding	Level the Playing Field 6-8, 9-12	Participants will experience algebra topics using graphing calculator technology to allow learners to experience multiple representations of functions and transformations with graphical, numerical, and algebraic connections. The use of technology as a tool enhances the means of successful problem solving and understanding for different learning styles. TI-84 Plus CE graphing calculators will be available for use at the session.	Margaret Bambrick, Ruth Casey Bonaire 1&2
Too Hot, Too Cold, Just Right: What Goldilocks Can Teach Us About Data-Driven Instruction	Hit it Out of the Park K-2, 3-5, 6-8, 9-12, Leadership, General Interest	As educators, our job is to ensure that each student has what he or she needs to succeed. But often that's easier said than done. Join us in this session as we use the lessons taught thru a familiar fairy tale to learn more about using our student performance data to drive our evaluation of and selection of curricular support resources.	Anthony Little Bonaire 3&4
Mirror, Mirror on the Wall...	For the Love of the Game 9-12	Who's the fairest quadrilateral of them all?! Students can feel lost in the Dark Forest trying to memorize which properties apply to which quadrilateral. Help them find their way with the Seven Dwarfs of Conceptual Quadrilateral Understanding! We'll explore how to use Symmetry, Transformations, Card Games, Grids, Manipulatives, Patty Paper, and Geogebra to develop conceptual understanding of quadrilateral properties and defeat the Evil Queen of Memorization!	Miriam Amatangelo Bonaire 5&6

Session Title	Theme/ Audience	Description	Speaker(s) & Room
All I Really Need to Know About Algebra, I Learned in Kindergarten	For the Love of the Game K-2, 3-5, 6-8	Author Robert Fulghum understood the importance of building a solid foundation for learning. He wrote about empowering all children to reach their full potential. This lively session will focus on the progression of algebraic reasoning from early years to intermediate grades. Participants will engage in practice-rich activities that foster student thinking. Manipulatives, literature, and appropriate technology will be integrated to build conceptual understanding and procedural fluency. Hands-on activities, formative assessment strategies, authentic student work samples that reflect diversity, and related discourse will show the Mathematical Thinking and Reasoning Standards in practice for ALL students. Participants will leave with ready-to-adapt ideas and lessons for their classrooms.	Chris Ruda Bonaire 7&8
Math is for Everyone	Level the Playing Field 6-8, 9-12	So many of our students struggle with their self-confidence and critical-thinking stamina in our math classrooms, making it a challenge for them to be successful. We hear things like “I’m not a math person” or “I just can’t do math” from our students, especially those with disabilities. In this session we will share with you strategies and procedures to help build mathematical thinking and reasoning skills with your students throughout the entirety of your lesson. We will focus on what supports and routines can help students thrive throughout their skill progression while simultaneously building their confidence. By the end of this session you will have takeaways for making your math classroom engaging and accessible to all your students, because math is for everyone.	Taylor Reisinger, Ginny Paige Antigua 1&2
Strategies for calculator active questions in the AP® Precalculus classroom	Hit it Out of the Park 9-12	Join us as we take a closer look at using specific TI-Nspire functionality for instruction and assessment of AP® Precalculus topics. You will have the opportunity to explore and use <i>free</i> TI resources that can be integrated into your classroom and enhance your instruction. TI-Nspire CX II’s will be available during this session.	Beth Smith Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
The Surprising Importance of Early Math	Featured Speaker	Given the pandemic's learning loss is worse in math, what should we do in early math? Is there a (true) <i>science</i> of early math education? We will discuss these questions, focusing on five surprising research findings about early math, including its predictive power, children's math potential, the need for better curricula, educational technology and teaching supporting excellence and equity, and –for each of these-- what we know about the importance of using empirically-validated learning trajectories. Finally, we share the result of decades of research and online resources we are developing for teachers and other educators that promote asset-based equity.	Dr. Douglas Clements Caribbean 4&5
Ever Wonder What They'd Notice? Building Literacy in the Mathematics Classroom	Level the Playing Field 3-5, 6-8, 9-12	Research shows that for students to be successful in a classroom setting, they need many opportunities to engage in academic discourse. Rich language interactions encourage thinking, promote social relationships, and expand students' vocabulary. The teacher is the conduit for sharing information and scaffolding social and academic language to all students regardless of their background and abilities. So, what can teachers do to motivate their students to fully engage in academic discourse? This session will focus on fresh, engaging strategies for creating a structured environment for increased conversations in the classroom, which can lead to heightened oracy and ultimately literacy for ALL math students, including students below grade-level, on grade-level, and above grade-level, and special populations such like your newcomers, emergent bilingual students, and special education students.	Catherine (Katy) Wilson Boca I
Exploring Mathbot: Enhancing Fraction Learning with AI	Level the Playing Field 3-5, General Interest	Join us for an interactive session on "Exploring Mathbot: Enhancing Fraction Learning with AI," where we delve into a groundbreaking study focused on improving fraction understanding among 4th to 5th graders through an AI-powered educational tool, Mathbot. This presentation will not only highlight key findings from the research but also offer participants a unique opportunity to experience Mathbot firsthand. Discover how this innovative tool personalizes learning to meet individual student needs, making complex fraction concepts more accessible and engaging. Ideal for educators seeking effective, technology-driven strategies to support diverse learners in mathematics.	Kenneth Holman Boca II
How to G.R.O.W. Successful Learners with Authentic Engagement	Level the Playing Field K-2, 3-5	Reaching every student requires an intentional, thoughtful, and flexible approach. Universal Design for Learning (UDL) provides a powerful framework to ensure learning experiences are implemented in a way that helps all students to be successful. This session will bridge UDL theory with practical strategies to increase engagement authentically.	Naomi Church Boca III

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Triple T-Teaming Thinking Tasks!	Level the Playing Field K-2, 3-5	<p>“The brain that does the work is the brain that learns.” In my session, participants will engage in a real-world math teaming experience for a hands-on learning approach.</p> <p>Florida’s MTRs provide a lens for teachers to focus their instruction on. This session will provide insight on how to incorporate four of these!</p> <p>Throughout the session, I will equip teachers with planning tools to implement these strategies from day one, benefiting all students. The combination of academic teaming and building thinking classrooms will provide an enriching event for all.</p> <p>Members will work in teams of 2-3 on vertical spaces, allowing for collaboration, communication, and critical thinking. I will model providing direct feedback and extensions or scaffolding. I will use a tool to help build flexible groups that will be shared afterward. Consolidation will solidify the math concepts to offer an entry point for all students to deepen their understanding.</p> <p>My session will emphasize effective planning, including task selection, group norms, group facilitation, and student voice. Teachers will leave with several tasks and the knowledge needed to implement these experiences in their rooms.</p>	Erin Dozier Boca IV
Mathematics in Action: Empowering Students for Community Impact	Level the Playing Field 6-8, Leadership, General Interest	<p>Join our session where practical applications of mathematical concepts meet community engagement! Geared towards students eager to understand the relevance of math in real life, we share strategies to foster students’ critical thinking and problem-solving skills. Through interactive activities and projects, students explore how math supports community development, answering the age-old question, “Why do we need to learn math?” Our holistic approach breaks the monotony of traditional teaching methods, catering to diverse learning styles. Empower your student to make a difference while using mathematics to solve problems.</p>	Lesleigh Phillips, Equitable and Interactive Mathematical Modeling (EIM2) team at UF and Southern Methodist University Boca V
Making Math A Grand Slam In Your District	Everyone Needs a Coach K-2, 3-5, 6-8, 9-12, Leadership, General Interest	<p>In this session, the Martin County School District's Math Team will share the different initiatives we have implemented, as well as our way of work to help make mathematics a districtwide focus and success. Our team will discuss our strategic scheduling of support, deployment of resources, weekly math newsletter, districtwide progress monitoring, targeted professional learning programming, and exciting new events we have brought to our district including Family Math Night, the Fifth Grade Math Olympics, and Math Week. If you’d like to learn some new ideas for supporting your district’s needs while also getting mathematics the spotlight and success it deserves, please join us!</p>	Paige McMahon, Denise Harrison, Nicole Golden Boca VI

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Sparking Inclusivity in Math Education	Everyone Needs a Coach K-2, 3-5, 6-8, 9-12, Post-Secondary, General Interest	Prepare to kick start inclusivity in the realm of Math education. This session will explore cutting- edge solutions engineered to empower diverse learners in the spheres of Math. In this dynamic session, Louis Shanafelt will explore strategies specifically engineered to help create inclusive learning environments within Math disciplines. With a focus on promoting accessibility & equity through tools that empower learner choice and voice in how they learn, this session aims to revolutionize the way educators approach Math education.	Louis Shanafelt Boca VII
The POWER of Math Stations	For the Love of the Game K-2, 3-5, 6-8, 9-12, Post-Secondary, Leadership, General Interest	"The POWER of Math Stations" presentation showcases the impact of math stations in classrooms. These structured areas engage students in hands-on activities, games, and problem-solving, deepening math understanding. Explore how math stations foster student-centered learning, collaboration, and tailored instruction. Learn strategies for creating effective stations, organizing materials, and integrating technology for enhanced outcomes. Real-world examples and practical tips empower educators to cultivate math proficiency and enthusiasm.	Jennie Gyford Boca VIII
What's so Great about an AI Chatbot Anyway?	Level the Playing Field 6-8	Artificial Intelligence (AI) has seemingly dominated the headlines lately! There have been countless stories from tech developers promising transformative changes to the educational landscape, but are these promises realistic? Our team has received funding to develop an AI chatbot called ALTER-Math. This chatbot engages middle school students in math and deepens their understanding of math topics. Rather than serving as a teacher, ALTER-Math flips the script and serves as a student who is in need of peer tutoring. This learning-by-teaching approach is a research-based, powerful approach through which students can deepen their math knowledge. To begin the session, we will give a brief overview of the AI landscape in K12 education. Then, we will share more about the philosophy behind ALTER-Math. Participants will then be provided with some time to engage with ALTER-Math and answer questions about opportunities it may present to students. We will close with a discussion of possible future applications and the implications of using these technologies.	Zandra de Araujo, Taylor Bainter Bonaire 1&2
Integrating movement into the math curriculum: A new spin on active learning	Hit it Out of the Park K-2, 3-5	Do your students become restless during math lessons or struggle to engage with the content? The purpose of the presentation is to provide teachers with strategies to encourage movement and engagement in the math classroom. As students sit sedentarily at a desk, they quickly become bored with learning and stop paying attention. By integrating physical activity into the content, students will become actively engaged in the learning process. Recent research studies have shown that incorporating physical activity into the curriculum provides students with academic and motivational benefits. The presentation will dive into specific strategies teachers can apply in their classrooms to incorporate movement. Each strategy can be adapted to any grade level and content area. Teachers will be provided with the opportunity to develop their own physically active lessons to implement in their classrooms.	Katie Nash Bonaire 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Building 3D Thinkers: Spatial Routines and Activities For Grades 6 - 8	For the Love of the Game 6-8	This session will focus on the research behind spatial thinking, its importance in mathematics education, and how to build spatial reasoning through routines and activities. By engaging in routines from 5th to 10th grade, participants will be able to build their understanding of the vertical alignment of Geometry content and the connections across grade levels. Research highlights how spatial thinking is vital to a student's success in many areas of mathematics and deserves greater attention in the classroom.	Chad Dorrell Bonaire 5&6
enRICHing The Level	Level the Playing Field 6-8, 9-12, General Interest	Session will focus on cultural competency of educators and its direct impact on culturally relevant and culturally inclusive classrooms. Presenting to edu stakeholders best practices and strategies for success.	Katrice Dixon, Tawanna Rowe, Laquandra Golf Bonaire 7&8
Gamifying Worksheets	Level the Playing Field 3-5, 6-8, 9-12	In this session we will demonstrate and teach multiple games that can be played with students from any mathematics worksheet. This is a great way to build student engagement anytime during the school year, not just for review time. We will teach the rules of play and how to facilitate these games.	Taylor Reisinger, Ginny Paige Antigua 1&2
Using Technology in Algebra to Build Confidence and Conceptual Understanding	Hit it Out of the Park 9-12	Participants will experience algebra topics using graphing calculator technology to allow learners to experience multiple representations of functions and transformations with graphical, numerical, and algebraic connections. The use of technology as a tool enhances the means of successful problem solving and understanding for different learning styles. TI-Nspire CX II graphing calculators will be available for use at the session.	Margaret Bambrick, Ruth Casey Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Basic Fact Interventions that Make Sense	Featured Speaker	Interventions must build on students' strengths and support their emerging number sense. Join me to explore research-based instructional strategies, meaningful and enjoyable practice (games!) for learning basic facts and effective diagnostic assessment and progress monitoring tools.	Jennifer Bay-Williams Caribbean 4&5
Bridging the Gap Between Across Math and Literacy: Best Practices in Foundational Learning	Level the Playing Field K-2, 3-5	Teachers will examine the principles of brain science and how we can utilize them to refine our teaching practices in the K-2 classroom. In this interactive workshop, participants will have the chance to compare how students learn early numeracy skills and foundational reading skills. Participants will leave with a deeper understanding of the foundational content students learn in the K-2 classroom and strategies, rooted in cognitive science, that will increase their capacity to craft equitable, joyful mathematics learning experiences for all.	Naomi Dupre-Edelman, Kolby Palmer Boca I
Manipulatives Still Matter: Making the Most Impact in Middle School Math	Level the Playing Field 6-8, Leadership, General Interest	<p>Participants will explore the timeless value of manipulatives for facilitating conceptual understanding and problem-solving skills in a middle school classroom. By focusing on Algebra Tiles and Cuisenaire Rods, educators will uncover innovative ways to integrate these manipulatives into their instructional practices and maximize their impact on student learning.</p> <p>Key topics include:</p> <ul style="list-style-type: none"> • Understanding how using manipulatives in the middle school math classroom supports MTR 2 and MTR 5. • Debunking the myth that manipulatives are for elementary learners only. • Exploring the unique properties and representations offered by Algebra Tiles and Cuisenaire Rods for modeling and solving a wide range of mathematical concepts. • Addressing common challenges and misconceptions related to using manipulatives in middle school math classrooms. <p>Leave equipped with resources and ideas on how to effectively utilize some of the most impactful manipulatives for a middle school classroom.</p>	Brandi David Boca II
Scaffolding Young Children's Mathematical Thinking as they Solve Compare Problems	Level the Playing Field K-2	Young children can solve a variety of mathematical story problems by modeling the action that occurs within the problem (Carpenter et al., 1993). But what happens when there isn't an overt action of joining or separating, rather, students are asked to compare two different sets? This presentation will review the types of compare problems and present strategies to support young children in making sense of compare situations by adjusting the wording of problems. These adjustments provide entry points for students to engage and make sense of the mathematics and opportunities to communicate their mathematical ideas. These strategies also create accessible environments by removing barriers, specifically, removing confusing language and/or contexts. By adjusting compare problems to make them more accessible, all children can gain conceptual understanding rather than relying on keywords to solve these problems. Participants of this session will analyze children's work samples (grades K-2) and be presented with different scenarios of children solving compare problems to practice adjusting the problems and questioning the child's thinking.	Melissa Soto Boca III

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Navigating Student Resistance with Grace and Empath	Level the Playing Field 6-8, 9-12, Leadership	Join us as we seek to understand students who are resistant. Explore strategies and techniques that address students' hesitation in mathematics. Uncover the factors influencing their reluctance, and acquire insights to foster a more inclusive and supportive learning environment.	Ashley Boyd Boca IV
Engaging Math: Interactive Modeling for Deeper Learning	Hit it Out of the Park 6-8	Join us for an interactive session, where we engage students in real-world mathematics projects. Tired of seeing bored, distracted faces in your classroom? Discover how to ignite student's interest and deepen their understanding of math concepts while adhering to grade-level standards. In this session we will explore the power of student led decision-making and idea sharing as they tackle meaningful tasks. By allowing students to choose projects that resonate with them, we empower students to apply mathematical knowledge to address community needs, weather it is designing homeless shelter or creating a skate station. Experience firsthand the excitement as students delve into their chosen project, demonstrating creativity, problem-solving skills, and resilience. Witness how they navigate challenges such as limited resources and conflicting priorities, all while honing their mathematical abilities. Through engaging discussions and collaborative learning, we'll delve into the transformative impact of engaging an active, focused learners eager to share their accomplishments and deepen their understanding of math.	Magdalena McCreedy, Equitable and Interactive Mathematical Modeling (EIM2) team at UF and Southern Methodist University Boca V
What Does Listening Have to Do with It?	Everyone Needs a Coach Leadership, General Interest	This session is designed to be a practice space that is ideal for coaches, administrators, and teacher leaders. You will engage in exercises that enhance crucial leadership skills—active listening, thinking, and responding—which are vital for cultivating professional relationships. Delve into the nuances of paraphrasing, exploring the different types and purposes. Join us to sharpen your abilities while we consider the question, What does listening have to do with it?	Ashley Boyd, Gerry Long Boca VI
Meet the Numbers of the Famous Equation	For the Love of the Game 6-8, 9-12, Post-Secondary, General Interest	The equation $e^{(i*\pi)} + 1 = 0$ is called "The Most Remarkable Formula in Math." From where did those numbers come? We will discuss some background of the numbers e, pi, and 0, and give some fun facts along with audience participation.	Marsha Guntharp, Steve Selby Boca VII
From Excess to Access: Just-in-Time Scaffolding for Inclusive Excellence	For the Love of the Game 3-5, General Interest	This presentation from two doctoral candidates and full-time classroom teachers focuses on just-in-time scaffolding for inclusive excellence. Central to this discussion is the identification of the 'sweet spot' in scaffolding. This involves carefully selecting tasks using the Instructional Quality Assessment (IQA) framework, planning for common errors, and strategically planning questions to foster critical thinking and understanding. This session will showcase effective scaffolding in practice, featuring video examples from real classroom settings to illustrate key concepts. Participants will gain insight into achieving the delicate balance of scaffolding necessary for maximizing learning outcomes. They will be equipped with actionable strategies that can be immediately implemented in their teaching practices, ensuring that support is provided in a timely, effective, and inclusive manner.	Diane DelliBovi, Abigail Ruiz Boca VIII

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Taking the Stress Out of MTSS	Level the Playing Field K-2, 3-5	This presentation focuses on effective instructional strategies that support Tier 2 students in mathematics. We will discuss how to engage students during small group intervention, effective questioning strategies, and recommendations for progress monitoring.	Lori Hart, Sarah Lumpkin, Joslyn Vilabrera Bonaire 1&2
Take A Math D.I.P.(Data, Instruction, Planning) "Strategies for Success, We Got You!"	Everyone Needs a Coach K-2, 3-5	In this highly engaged "Math D.I.P." participants will be introduced to interactive teaching methods and practices that integrate data tracking tools, best instructional practices, as well as individual and collaborative planning to make mathematics more relevant for teachers and engaging for students. Attendees will learn about innovative components of instruction including the BEST use of formative assessments, and how to create instruction to capture and retain students' attention. Traditional approaches to teaching mathematics often face challenges in capturing students' interest and demonstrating the real-world applications of mathematical concepts. Participants will also see a highly engaged math lesson while attending the session. After taking a "Math D.I.P." attendees will have gained insights into a pedagogical approach that goes beyond traditional teaching methods and walk away with resources that will help support their instruction.	Danielle Vaughn, Vernisha Howard Bonaire 3&4
Bring Math to Life with McGraw Hill's FREE Augmented Reality App	For the Love of the Game 3-5, 6-8, 9-12, General Interest	<p>McGraw Hill AR is a FREE augmented reality app that provides engaging, bite-size experiences that promote deep conceptual learning. These standards-aligned experiences include lesson plans and give teachers flexibility in how they integrate them while helping students learn a concept in minutes.</p> <p>Currently, the app is available in English and Spanish and features Algebra readiness and 3D geometry content for grades 6+ although the experiences can be modified for concept discover for the younger grades too. The learning library also includes Social Studies, ELA, and Science experiences!</p> <p>The app can supplement any core curriculum by:</p> <ul style="list-style-type: none"> * Stimulating engagement on challenging topics through interaction, exploration, and multi-sensory experiences. * Encouraging student agency through self-directed activities. * Working with existing technology in your classroom like tablets and smartphones. 	Shelly McClanahan Bonaire 5&6
Watson, I Have Found the Missing Link! Let Me Draw You a Picture!	Level the Playing Field K-2	So, you invested 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 Addition and Subtraction.	Pam Richards Bonaire 7&8

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Unlocking Potential: Mastering Math with Spiraled Learning Through Endless Feedback	Level the Playing Field 6-8, 9-12, Leadership, General Interest	<p>This session is your gateway to transforming math education, designed to elevate student achievement across all proficiency levels through precise, data-driven differentiation. Discover how our PIVOT assessment tool leverages real-time data to tailor learning experiences, ensuring that each student's journey is both personalized and inclusive.</p> <p>Mia and Lee, two full time classroom teachers, will guide you through their process of continuously capturing the entirety of student comprehension across all covered material, not just isolated unit snapshots. This approach facilitates learning at varied paces and communication of student progress clearly to all stakeholders, perfectly aligning with state standards without adding to the teachers' workload.</p> <p>Attendees will leave with clear, actionable takeaways: mastering the use of the PIVOT tool to implement spiraled learning, employing data to differentiate instruction effectively, and understanding how continuous assessment can reshape the educational landscape. This session promises a deep dive into cultivating an environment where every student can thrive, supported by the latest in educational technology and pedagogical research.</p>	Lee Allen, Mia Allen Antigua 1&2
Make Math Come Alive – Easy Data Collection for Exploring Big Ideas!	Hit it Out of the Park 6-8, 9-12, General Interest	From linear functions in pre-algebra to periodic functions in AP Calculus, see how this easy-to-use plug & play technology can be used to promote engagement and conceptual understanding. In this session you will use a CBR2 along with a TI-84 or TI-Nspire to collect real-time data. CBR2s, TI-84 Plus CEs and TI-Nspire CX IIs will be available during this session. Come for the fun, stay for the prize! One lucky attendee will win a CBR2 to take back to your classroom.	Margaret Bambrick, Ruth Casey Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Fanning the Flames: Rekindling Joy in Teaching Through a Culturally Relevant Approach	Level the Playing Field 6-8	How are we establishing Grades 6-8 classrooms that position all students as capable, confident learners and doers of mathematics? We can dismantle barriers to quality mathematics instruction for all students by empowering each learner to experience relevant mathematics that is responsive to who they are as learners and people. Join two Ed.D. Noyce teacher fellows as we explore how equitable mathematics instruction can empower all learners and teachers to experience relevant mathematics responsive to who they are as learners, teachers, and people. Participants will collaboratively examine mathematics standards and implementation processes through an equitable lens. They will use a rubric to evaluate and modify tasks for cognitive demand and cultural relevance. Participants will be equipped with the knowledge and tools to make math teaching more engaging and personally meaningful for all students.	Shane Wiggan, Abigail Ruiz Boca I
Finding Joy in Group Work	Level the Playing Field 6-8, 9-12	Equalize learning experiences and inject joy for all students during group work by improving collaboration and increasing participation. Consider the areas of complex instruction, actionable norms, curriculum, and student status in the designing and implementation of mathematical group tasks	Joshuah Thurbee Boca II
A socially responsive Mathematical Modeling Task: Fair Payments and Gender Equality	Level the Playing Field 6-8, General Interest	In this session, participants will work in teams on a mathematical modeling task, which aims to develop social awareness and critical thinking. The task is part of the EIM2 project (Equitable and Interactive Mathematical Modeling). A sample task, entitled “Fair Payments and Gender Equality”, focuses on the topic of the gender pay gap in the US. The task is designed for upper elementary and middle school students, and it has been tested with groups of students for implementation and refinement. This task involves calculating the monthly income of different families (a single father with two children and a single mother with two children) based on the weekly average wage in the US, suggesting a budget plan for each family, and analyzing how the difference in income affects their quality of life. Through this hands-on session, we will demonstrate how this task may help students develop their mathematical content knowledge, while connecting their personal experiences and building their social awareness. We will also share strategies and resources to implement this task, along with relevant practices that can be applied to authentic modeling tasks.	Sheida Moghtader Eslami, Hernandez Zavaleta, J Enrique; Jung,Hyunyi; Zhang, Hong, and EIM2 Team Boca III
Top Tips for Servicing Students with Disabilities in Math	Level the Playing Field K-2, 3-5, 6-8, Leadership	Are you wondering how to service students with disabilities in mathematics in a meaningful way? In this session we dig into the specifics you've been looking for: Accommodations vs. Modifications in Math with specific examples, identifying the priority educational needs in Math and tips for writing quality math IEP goals.	Naomi Church Boca IV
Card Sorts: The Quest for the Magic Key	Level the Playing Field K-2, 3-5, 6-8, 9-12, General Interest	Do you wish you had the magic key to an activity that will engage your students, allow all students to participate, promote mathematical discourse, and give you time to work with a small group? Come on a quest with me to uncover the magic key of the card sort! Teachers will participate in multiple card sorts (differentiated by grade band: K-5, 6-8, 9-12) during the session - card sorts of which you will have printable copies to use in your classroom right away! We will discuss some tips and tricks to make your card sorts successful and how to use this time to work with small groups of students (Tiered instruction, anyone?!).	Miriam Amatangelo Boca V

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Behavioral Teaching Strategies with Real-life Mathematics Challenges for Neurodivergent Students	Level the Playing Field K-2, 3-5, 6-8	<p>Our session delves into the crucial intersection of behavioral practices and strategies and real-life mathematics challenges tailored for neurodivergent students through methods in the field of applied behavior analysis (ABA). We explore tools that enable us to address behavioral differences and the unique learning styles of neurodivergent learners.</p> <p>This session emphasizes practices associated with real-life mathematics challenges, acknowledging applications of mathematical concepts with neurodivergent students. Through case studies and interactive discussions, participants will explore how to design challenges that resonate with neurodivergent students. We examine inclusive instructional methods that consider various neurodivergent profiles, ensuring that educators can effectively address the diverse needs present in their classrooms.</p> <p>By the end of the session, attendees will have practical takeaways, including sample lesson plans and teaching strategies and resources for the neurodivergent population in our classrooms. Join us as we navigate the intersection of instructional practices and real-life challenges to empower neurodivergent students in their mathematical journey.</p>	Violet Kyong, Hyunyi Junge Boca VI
Uncomplicating Fractions	For the Love of the Game K-2, 3-5, 6-8	<p>During this session, we will un-complicate fractions and discuss the foundational skills required to master this critical mathematical concept. Mathematics is fundamentally about relationships, and nowhere is this more evident than with the concept of fractions. We'll explore the notion that we sometimes need to unlearn old approaches to relearn and truly understand.</p> <p>Through hands-on demonstrations and discussions, participants will gain insights into fractions that will un-complicate teaching and learning fractions for all. Attendees will leave equipped with a comprehensive skills checklist for fractions, with an emphasis on vocabulary. Additionally, they'll receive valuable suggestions for manipulatives that facilitate deeper understanding and retention of fraction concepts that go beyond fraction bars and tiles.</p>	Ashley Doty, Megan Cox Boca VII
"What Can I Do Now?": Strategies for Meaningful Math Practice to Keep Learners Engaged	Everyone Needs a Coach 3-5, 6-8	<p>In this session, I will provide effective strategies for keeping learners engaged in meaningful math practice. Strategies will include successful implementation of center rotations/stations as well as use of math choice menus to provide purposeful, related practice and projects that could be part of center rotations or as enrichment/extension activities.</p>	Jan Merritt Boca VIII
Use TI-84 and TI-Nspire Graphing Technology to Drive Student Success on the ACT®	Hit it Out of the Park 9-12	<p>Join us as we discuss features of the ACT®, test taking strategies, calculator skills, and techniques for teaching with TI graphing technology to help students better understand concepts covered on the ACT®. Leave with ideas on how to integrate ACT® practice into your math curriculum.</p>	Beth Smith Antigua 3&4

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Helping Struggling Students Master Mathematics	Level the Playing Field 3-5, 6-8	Join Valencia as she shares with teachers effective math strategies that help under-achievers become successful in mathematics. Various techniques will be presented to assist teachers in teaching specific state standards. The standards addressed will include mastering math facts and implementing the 4 operations with a focus on division. Participants will learn how to explore fractions conceptually. Participants will also discuss how to implement vertical alignment planning. Creative ways of assessments will be demonstrated to incorporate a win-win environment for both student and teacher.	Valencia Thornton Boca I
Mathematical Modeling of Financial Projections: Students' awareness of financial reality	Level the Playing Field 6-8	This mathematical modeling task aims to engage students in applying mathematics to real-life problems, specifically focusing on financial issues such as median household income in Alachua County and Florida, alongside housing price changes and college tuition costs over time. Designed by the author and EIM2 team, the task encourages students to recognize mathematical reasoning as a valuable tool for analyzing, interpreting, and predicting societal issues while enhancing their mathematical skills. By incorporating inflation and historical data on median household income, housing, and college tuition, the task prompts students to explore various societal issues related to money, purchasing power, and more financial concepts. The session provides pre- and in-service teachers with opportunities to engage in mathematical modeling tasks and discuss the advantages of integrating such tasks into their teaching practices compared to traditional mathematical exercises. Through this approach, teachers can enhance their ability to address real-world challenges and foster deeper mathematical understanding among their students.	Sangyeon (Sean) Park, Equitable and Interactive Mathematical Modeling (EIM2) team Boca III
Math for All: Embracing Diversity Through Windows, Mirrors, and Sliding Glass Doors	Level the Playing Field K-2, 3-5, Leadership	Rudine Bishop discusses how children's literature provides a plethora of opportunities to help connect to and with the diverse group of students that make up our classrooms and schools today. They also provide a launch for important mathematical concepts. In this engaging session, we will explore innovative ways to enhance mathematics education by integrating children's literature into the curriculum, creating a diverse and inclusive learning environment for every student. This workshop recognizes the power of stories to serve as windows, offering glimpses into diverse worlds, mirrors, reflecting the identities of students, and sliding glass doors, providing opportunities for exploration and connection. By carefully selecting and incorporating children's literature into math instruction, educators can unlock a multitude of pathways for students to grasp mathematical concepts with enthusiasm and understanding.	TJ Jemison Boca IV

Session Title	Theme/ Audience	Description	Speaker(s) & Room
Real-life Mathematical Problem Solving: Strategies for All Including Neurodivergent Students	Everyone Needs a Coach General Interest	We recognize that every student brings a unique set of strengths and challenges to the mathematics classroom. Our session aims to equip mathematics teachers with practical strategies to make real-life mathematical problem-solving accessible to all, including neurodivergent students. We delve into the design of problem-solving tasks that connect mathematics to real-world scenarios, creating engaging and relevant learning experiences. Moreover, we address the diverse learning styles and needs of neurodivergent students, ensuring that our strategies foster an inclusive and supportive environment. Attendees will gain insights into adapting instructional approaches, incorporating hands-on manipulatives, and utilizing differentiated materials. We emphasize creating a classroom culture that celebrates neurodiversity and values the unique contributions of every student. Whether participants are new teachers eager to build a foundation for inclusive practices or experienced educators seeking to enhance their approach, this session offers valuable insights into creating a mathematics classroom where every student thrives in the joy of real-life mathematical problem-solving.	Hyunyi Violet Kyong, Kristen Apraiz, Hongze Zhu, Maria Rinehart, Lillian Zaydman, Ian Liwosze Boca VI
Swinging for Success: A B.E.S.T. Approach to Supporting All	Everyone Needs a Coach Leadership	Join Uncomplicate Ed as we dig into an excerpt of our B.E.S.T. Mathematics Professional Learning Workbook. In this session, we will present our uncomplicated process for evaluating a unit within your existing curriculum. This process ensures that the full extent of the B.E.S.T. is being met or exceeded. We will then discuss how to utilize the B1G-M, assessments, and student work samples to guide instructional shifts and identify common challenges. Participants will leave this session with a tool to guide systematic improvements, guide educators to enhance instruction through reflection, and in turn optimize learning outcomes for students.	Ashley Doty, Megan Cox Boca VII
Multiplicative Marvels: Unraveling Russian Peasant Multiplication	For the Love of the Game 3-5, 6-8, 9-12, Post-Secondary, General Interest	Russian Peasant Multiplication transforms multiplication into an engaging game, fostering deep understanding of arithmetic, recursion, and algorithmic efficiency. Its ties to binary representation and computer science enrich mathematical exploration, making it suitable for the "For the Love of the Game" strand. Participants engage in hands-on activities to discover the joy of mathematical exploration, reinforcing key mathematical principles in a dynamic and interactive manner.	Michael Reynolds Boca VIII
Make Math Come Alive – Easy Data Collection for Exploring Big Ideas!	Hit it Out of the Park 6-8, 9-12, General Interest	From linear functions in pre-algebra to periodic functions in AP Calculus, see how this easy-to-use plug & play technology can be used to promote engagement and conceptual understanding. In this session you will use a CBR2 along with a TI-84 or TI-Nspire to collect real-time data. CBR2s, TI-84 Plus CEs and TI-Nspire CX IIs will be available during this session. Come for the fun, stay for the prize! One lucky attendee will win a CBR2 to take back to your classroom.	Ruth Casey, Margaret Bambrick Antigua 3&4