

CAMT Live Sessions

Live Date	Name	Grade Band	Title	Description
7.19.21 @ 10:00	Brian Buckhalter	Grades 3-5	Place Value: The Value of Your Place	We didn't learn that last year!" As teachers, how many times have we heard that line from our students? Part of students' success lies in their background knowledge, skills, and dispositions built in previous grades. Knowing where students are in their understanding can be the beginning of creating a route to success for each student. NCTM's <i>Principles to Actions</i> advises that, "teachers need to have a clear understanding of the curriculum within and across grade levels- in other words, student learning progressions- to effectively teach a particular grade level or course in the sequence." In this session, we will explore the role of student learning progressions in designing, implementing, and assessing meaningful learning experiences for ALL students. Participants will venture through several standards that mimic students' progression through content in the elementary grades. As the old cliché says, "You have to know where you've been to know where you're going.
7.19.21 @ 10:00	Dr. Jim Ewing	PK-2	Math for Hispanic ELs	How are your ELs doing in math? Typically, we design lessons for non-ELs and attempt to adapt them for ELs. This approach is not working (Ewing, 2020). 90% of ELs in Texas speak Spanish. Learn specific strategies from the author of three books to meet the needs of Spanish-speaking ELs.
7.19.21 @ 10:00	Mary Davis	Grades 3-5	Navigating Inside Mathematics: For Elementary Mathematics Teachers and Leaders	Inside Mathematics has been revised, the content refreshed and more added!! Inside Mathematics provides a resource for educators around the world who struggle to provide the best mathematics instruction they can for their students. Too often, teachers who excel at reaching students have few ways of sharing these strong practices with others – and teachers who struggle, struggle alone. Inside Mathematics opens the doors to a central location where you can find resources to help teachers with professional learning. We will use videos of real classrooms to take classroom walks and discover ways to use the site to create shared learning experiences with your teachers, including in person or virtual sessions. Come and see how the exciting new and improved Inside Mathematics will help you address the content and pedagogical needs of your staff.
7.19.21 @ 10:00	Mary Kemper	High School/College	Building a System of Small Group Instruction & Intervention in High School Math	Remote instruction was not working for too many of our students. I created a system of intervention based on identifying and assessing pre-requisite skills, providing small group instruction, and making math accessible to all of our students. I'll share our story in hopes it inspires you to do the same.
7.19.21 @ 10:00	Michelle Nance	Grades 6-8	A Simple Plan for Solving Compassion Fatigue in Educators Leading to Empowerment Leading	Challenges within the academic world often cause educators to stop moving forward. Participants will interact with creative ways to use technology tools to help navigate and overcome speed bumps. Receive tools to cultivate positive changes that will leverage you and your staff capitalizing on your strengths to overcome these speed bumps. Learn to develop psychological toughness and resiliency. Begin your journey to persevere, adjust your sail, and build strong reciprocal relationships that will change your campus.
7.19.21 @ 10:00	Patti Nicodemo	Grades 6-8	Rethinking Notetaking in the Mathematics Classroom	Are students diligently taking notes during class, but not retaining the information just shared? Explore three easy to implement approaches to notetaking that can help increase student retention and understanding.

7.19.21 @ 10:00	Robert Berry	Grades 6-12	Examining the Relationship between Mathematical Practices and Anti-Racist Teaching Practices	This session will examine the intersection between anti-racist teaching practices and mathematics teaching practices. The goal is to raise awareness of mathematics teaching practices that potentially put learners at-risk of impactful consequences.
7.19.21 @ 10:00	Jo Ann Bilderback	Grades K-5	TEA Update for Elementary Mathematics	This session will present the most current information regarding kindergarten – grade 5 mathematics education. Critical issues such as instructional resources, state and federal requirements, PAEMST, and STAAR will be discussed. Attendees will be given the opportunity to ask questions.
7.19.21 @ 11:30	Sara Van Der Werf		What is Mathematics? What do Mathematicians do?	Most mathematics students have a misconception of what math is and what it means to be good at mathematics. Many believe that to be good at math is to be the fastest one to get an answer, leaving many students believing they can't do math. Beginning the school year teaching student's what math is and what mathematicians do will empower all students to believe they can be successful in math. Using the definition of math will give teachers a lens to bring to their lesson planning. Simple, practical K-5 examples of this will be shared. Curious about what will happen at his session? Prior to coming to this session, google 'babies eating lemons', click & watch several videos/images. What do babies eating lemons have to do with convincing all students they are mathematicians? Come to this session and find out.
7.19.21 @11:30	Janeigh Stalling	Grades 6-8	I-N-Beam Me Up! Take Your Math Notebook to the Next Generation!	Join me to learn how to turn your Math INB into a Digital Version for remote or in-class students. Learn how to adapt the features of an INB onto a digital platform. Discover insights into making a digital INB a valuable resource for your students. I have been using a digital INB for the 2020-2021 school year and will share with you the techniques that worked and mistakes that I made and corrected to make a digital INB work more efficiently for my classroom. I will also provide methods for creating video notes that can be imbedded directly into digital notes. Every attendee will receive templates that will help them start a digital INB and see digital techniques that can be applied to a digital INB. I will also share the rubric I use to grade my journals and ways to help hold students accountable for their INB. A digital INB is a wonderful addition to traditional, flipped, or online classrooms. Come join me to see how you can take your Math INB to the DIGITAL generation!
7.19.21 @11:30	Janet Nuzzie	Grades 3-5	Mathematicians Collaborate! Mathematicians Connect! Mathematicians use Twitter!	Mathematicians use Twitter? Yes, mathematicians use Twitter! As mathematics educators, we work best as a team ... and one way to work as a team is through connecting with other educators whether those educators are on our grade-level teams, our campus teams, in our district, or around the region, state, and world! Join us as we explore how to use Twitter to connect with other mathematics educators and grow our PLNs (Professional or Personal Learning Network)! Mathematicians learn & grow together!
7.19.21 @11:30	Jennifer Hylemon	High School/College	Virtual Assessment Solutions: Leveraging Online Tools to Ask Better Questions	Have you been frustrated by online assessments? Are you looking for ways to ask more than just multiple choice and numerical response questions for high school math online tests taken remotely? Come to this session to learn how you can ask better questions using tools already available through Canvas, Google, and other online platforms with free capabilities.
7.19.21 @11:30	John J SanGiovanni	Grades 3-5	Six Actions for Productive Struggle (K-5)	The struggle is real. But productive struggle is more than a catchphrase. It is the result of six actions that teachers take so that students struggle, persevere, and succeed. In this session, participants learn about how struggle in mathematics is grounded in identity, environment, planning, support, and reflection. Participants will acquire strategies to support them before, during, and after the lesson or the struggle. Classroom tools and lesson seeds will be shared for use as soon as the first day of school.

7.19.21 @11:30	Lisa Ashe	Grades 6-8	Identity, Equity, & Cultural Proficiency in Mathematics	Mathematics continues to serve as a gateway to various opportunities and experiences for many students. The impact of teachers on the mathematical identity and agency of students can catapult opportunities for many students. In this session, participants reflect on their own mathematical identities, culture, and beliefs. As they move toward cultural proficiency, they will examine how drawing from their own experiences can benefit students in developing positive mathematical identities. This session is designed for K-12 educators in various roles.
7.19.21 @11:30	Pamela Harris	Grades 6-8	Using Within and Between to Teach Solving Proportions	We can use similar figures to help students understand how to write and solve proportions fluently with ratio tables. Want your students to solve with confidence and learn to reason proportionally? Join me in this session for theory and examples!
7.19.21 @11:30	Mike Flynn	K-12	Engaging in the Deep Work of Mathematics: Supporting High-Cognitive Learning in the Age of Distraction	Are your students able to engage in complicated tasks for long periods of time without distraction? Are you? In this session you will learn strategies to support your students' (and your own) abilities to think, work, and learn deeply in mathematics and beyond.
7.19.21 @11:30	John Felling	Grades 3-5	All Hands On Deck - In A Hands Off World: Math Games Using Cards	Come prepared to play and learn our favorite upper elementary card games that teach the following concepts: operational fluency, mixed operations and order of operations, place value including decimals. Cards are easy to socially distance and use in remote settings for at home practice. You will receive gameboards, concept skillll checklists and ideas for integrating math games daily into your program no matter what the setting.
7.19.21 @ 1:00	Brian Buckhalter	PK-2	Place Value: The Value of Your Place	We didn't learn that last year!" As teachers, how many times have we heard that line from our students? Part of students' success lies in their background knowledge, skills, and dispositions built in previous grades. Knowing where students are in their understanding can be the beginning of creating a route to success for each student. NCTM's <i>Principles to Actions</i> advises that, "teachers need to have a clear understanding of the curriculum within and across grade levels- in other words, student learning progressions- to effectively teach a particular grade level or course in the sequence." In this session, we will explore the role of student learning progressions in designing, implementing, and assessing meaningful learning experiences for ALL students. Participants will venture through several standards that mimic students' progression through content in the elementary grades. As the old cliché says, "You have to know where you've been to know where you're going.
7.19.21 @1:00	Carrie S Cutler	Grades 3-5	Three Act Tasks: Mathematical Modeling plus Cultural Relevance Makes Sense	Is your math classroom just blah? Sick of the same old worksheets and problem sets? Three Act Tasks are a hot new approach to culturally relevant problem-based instruction through mathematical modeling. Find out what a task is, how to locate free tasks from the University of Houston, and easy ways to implement them in your math class. We'll have a blast with piñatas, Duvalin, and dumplings as we use mathematical modeling to build understanding of number.
7.19.21 @1:00	Cindy Garcia	Grades 3-5	Unlocking ELs & EBs Mathematics Understanding	During this session we will examine high impact strategies that support the mathematical understanding of English Learners (ELs) and Emerging Bilingual Students (EBs). We will explore how to incorporate the 4 language domains when planning for and facilitating instruction in order to make mathematics accessible, equitable, rigorous, and engaging for all math language learners.

7.19.21 @1:00	Kyle Pearce	Grades 6-8	The Tortoise & The Hare: How Math Class Missed the Moral and What We Can Do About It	When you think back to moments from your mathematical learning experience, what comes to mind? Do your memories tend to feel more like the recalling of facts, steps, and procedures or do they feel more like the process of problem solving where you were routinely left to think deeply through a productive struggle? Why does it seem that our experiences from math class tend to be a case of either/or? When exploring new approaches to teaching and learning mathematics, we are often confronted with very absolute views that pit one extreme against the other. Ideas such as direct instruction vs. inquiry lessons, grades vs. gradeless assessment practices, homework vs. no homework, or hands-on collaborative tasks vs. independent worksheet practice; regardless of what pedagogical approach you wish to explore, it's a sure bet that you'll find someone out there who believes it is poor practice. Join Kyle & Jon as they explore the two systems for thinking in the brain and how mathematics education often only serves one. They'll share the practical classroom lessons and routines that not only help you find the right balance in your mathematics program; but will also help your students to define an identity that they value in your math class.
7.19.21 @1:00	Martin Cardenas	Grades 6-8	Giving English Learners a Voice in Mathematics by Leveraging the Capabilities of Technology	In this session we will explore how to orchestrate productive mathematical discourse to intentionally support English Learners. Desmos activity builder has capabilities that can leverage students' language and culture to enhance mathematical learning in a safe environment. Implementation will center around NCTM's publication of the 5 Practices for Orchestrating Mathematics Discussions. Desmos allows us to leverage technology in order to more efficiently implement the 5 practices.
7.19.21 @1:00	John Felling	Grades 3-5	TGIF - its Box Cars Time! Rebuilding the Gaps Through Hands-on Dice Games	Teachers across the country have indicated that COVID has created many gaps in student's learning. Come prepared to play our students' favorite dice games that help rebuild basic concepts. Concepts covered include basic facts for + and x, place value, and simple fraction activities. Dice are easy to adapt to socially distancing practices and will engage students for extended periods of practice. You will receive concept skill checklists, gameboards and ideas for math journals and assessment.
7.19.21 @1:00	Mona Toncheff	High School/College	Closing the Opportunity Gap: A Call for Detracking Mathematics	All students deserve equitable access to high-quality mathematics. While we know there are many factors that hinder access, NCSM calls for the cessation of one clear, addressable factor: the practice of tracking. This session will explore the essential actions and first steps stakeholders can take towards detracking mathematics.
7.19.21 @1:00	Shannon Bryant	High School/College	You do you, Boo! (Personalizing Math Instruction Online)	Teachers and students both need the ability to "make learning their own"! When we harness the technology tools that allow teachers to interact with students learning online can be more effective and efficient for all. Come and explore how apps like Desmos, Geogebra, Nearpod, and google have the capability to increase engagement and accountability in your math class. Teachers will walk away with resources to empower their learning journey.
7.19.21 @1:00	Mike Flynn	K-12	Turning Adversaries into Allies: Building Community-Wide Support for Your Initiatives in Mathematics Education	Any initiative in mathematics education, whether classroom-based or state-wide, requires support from all stakeholders (students, parents, administrators, school board, etc.) involved. However, building and sustaining that support can be challenging, especially if there are pockets of skeptics actively working against your goals. This session will address these challenges and provide educators and administrators with strategies and resources to help them build momentum in their communities to support meaningful and powerful mathematics education for each and every student.

7.19.21 @ 2:30	Victor Sampson	High School/C ollege	Argument-Driven Mathematics (ADM): Fostering the development of mathematical thinking in algebra	This session is an introduction to a new approach to mathematics instruction called Argument-Driven Mathematics (ADM). This approach allows teachers to provide students with rigorous and equitable learning experiences that give students an opportunity to “figure things out” instead of just “learning about things” in mathematics. Participants will experience an example of an ADM investigation about predicating rental affordability in different cities (Algebra 1A-G, 3A-D) during this session, see examples of how students who completed this investigation used mathematical concepts and processes to figure out if which city is likely to experience an unaffordable rent problem the soonest, and learn how to promote and support on-going changes in student’s mathematical thinking during an investigation.
7.19.21 @ 2:30	Jo Ann Bilderback	PK-12	STAAR Redesign: New Item Types	TEA will present samples of the new item types in development for the State of Texas Assessment of Academic Skills (STAAR) in accordance with House Bill 3906. Educators will have the opportunity to provide feedback on the new item types via survey during the presentation.
7.19.21 @ 2:30	Sara Van Der Werf	PK-12	Creating Discourse through Math Language Routines	Research based Math Language Routines (MLRs), specifically discussion supports designed for English Learners, create the conditions for all students to engage in mathematical discourse that reveals their reasoning. Specific routines to create the conditions for discourse will be modeled with tips for immediate success in all types of classrooms.
7.19.21 @2:30	Mark Moore	Grades 6-8	Effective Use of Google Classroom/Google Forms in a Virtual Math Classroom	Prior to nationwide shutdown, Google Classroom may have been seen as a luxury which teachers never chose to integrate into their day-to-day processes. If Covid-19 has taught us anything, it has taught educators the necessity of being able to successfully operate in an all-digital environment. In school year 2020-2021, teachers may have had a rudimentary understanding of Google Classroom and its capabilities of delivering information to our students. However, this presentation will show educators not only how to survive, but how to use this technology to enhance their classrooms, even when all students are face-to-face again. This session will also highlight accompanying technology within the Google Suite (Google Forms) and its ability to help you formatively assess your students.
7.19.21 @2:30	Mona Toncheff	High School/C ollege	How to Lead with a Focus on Equity	Equity in mathematics education is not optional. So, how do we as mathematics leaders ensure that all students are engaged in equitable instruction and experiencing meaningful and relevant mathematics? What is the first next step focused on equity? Come join the discussion centered on leadership actions required to create a robust mathematics program for every student.
7.19.21 @2:30	Pamela Harris	Grades 3-5	Alternative Multiplication Strategies and Models	Standards say that students use strategies to multiply multi-digit numbers. What does that mean? Why would we want to make students learn more than one way? What are the major strategies and models for multiplying fluently? We'll lay it all out so you and your students can multiply like mathematicians!
7.19.21 @2:30	Reagan Tunstall	PK-2	How to Make Guided Math Work for you and Your K-2 Students	Guided math provides a structure for best practices: differentiation, formative assessment, hands-on learning, small group and whole group, spiral review, etc... but it isn't easy. Whether you are just learning about guided math or have been using it for years, this session is designed to make guided math work for you and your students. You will leave with resources and ideas to put into your classroom immediately.
7.19.21 @2:30	Sandra Consilio	Grades 3-5	New Math or Next Math? Blended Learning in the Wake of COVID-19	Integrating digital tools into a blended learning curriculum is not a new concept, but it's one that is rapidly evolving as schools and districts adapt due to the challenges of COVID-19. Research suggests that the variability of students' individual needs will be much greater when the new school year begins. And what this--and future--school years look like in terms of the classroom could be radically different. Let's imagine what blended learning can look like in this new context.

7.20.21 @ 10:00	Adrian Mendoza	Grades 3- 5	Growth Mindset and Academic Language in Math	The goal of this session is to promote a growth mindset supported by language development in math classrooms. www.bit.ly/mathcycle During the session, the audience will experience strategies like Talk, Read, Talk, Write; supporting the two goals of sheltered instructions which are making content comprehensible and building academic language.
7.20.21 @ 10:00	Brittany Goerig	PK-2	Hands-On Learning Can be Powerful with the Right Tools (PK-2)	Manipulatives have been used in classrooms for years. They are tools to help students make abstract concepts more concrete. Come learn how using the right tools can make hands-on learning powerful in developing conceptual understanding. See how manipulatives can serve as models to support student thinking and provide entry points for all students.
7.20.21 @ 10:00	Cathy L Seeley	High School/C ollege	Where is High School Math Headed?	NCTM's 2018 Catalyzing Change in High School Mathematics called for rethinking how we organize high school mathematics courses. Texas, like many other states, continues to rely on a sequence anchored around Algebra 1, Geometry, and Algebra 2, aiming at pre-calculus and calculus as the major pathway through high school, with very few options outside that path. The US stands alone in its attachment to this course sequence. Yet, more and more of our students will enter the workforce or post-secondary education in fields calling for skills not included in the traditional sequence, like applied statistics, "Big Data," finance, algorithmic thinking, quantitative reasoning. What should Texas educators be considering for the future of Texas mathematics courses to more appropriately prepare every student for whatever their future might hold?
7.20.21 @ 10:00	Dr. Jim Ewing	Grades 3- 5	Developing ELs' Math Language	This motivating session reveals how you can easily develop ELs' language in mathematics. There is a myth that math is straightforward because it is a universal language and yet ELs are struggling (Ewing, 2020). Committed educators understand that ELs are capable and will improve if we develop their language. Attend this session to obtain foolproof strategies that you can implement immediately to develop mathematical language.
7.20.21 @ 10:00	Linda B. Goodwin	Grades 6- 8	Closing the Gaps in Math During a Pandemic	This session will be based on action research conducted at the beginning of the 2020-2021 school year. The session will include growth mindset tips as well as differentiated lessons.
7.20.21 @ 10:00	Tom Reardon	High School/C ollege	TI Investigates STEM Behind Football and Baseball Interactively – Is the Kick Good – Is it a Home Run?	Students model the flight of a kicked field goal with a TI graphing calculator and interact with the math to investigate graphically and solve algebraically questions such as: is it good, maximum height of the ball, how far does the ball travel? Similar modeling with a hit baseball: is it a home run, maximum height, how far? Obtain all materials – student worksheets and teacher notes and solutions. 60 individual problems and solutions for each! For grades 8 through 12: play, investigate, explore, discover – STEM!
7.20.21 @ 10:00	Jo Ann Bilderback	Grades 6- 8	TEA Update for Middle School Mathematics	This session will present the most current information regarding grades 6-8 mathematics education. Critical issues such as instructional resources, state and federal requirements, PAEMST, and STAAR will be discussed. Attendees will be given the opportunity to ask questions.
7.20.21 @ 10:00	Trena Wilkerson	Grade 6- 8	Empowering Student Voice in the Middle Grades Classroom through Literature Connections!	In this interactive session, we will share strategies and activities to incorporate children's literature in mathematics that engage students to empower their voice in mathematics. Incorporating children's literature provides students with an opportunity to make mathematical and real-life connections when engaged in problem-posing tasks helping them make sense of their world.
7.20.21 @ 11:30	Adrian Mendoza	Grades 3- 5	Number Webs: Visualize, Connect, and Explore Mathematics Using One Versatile Graphic Organizer	Number Webs: Visualize, Connect, and Explore Mathematics Using One Versatile Graphic Organizer

7.20.21 @ 11:30	Brad Fulton	Grades 6-8	Skills Practice that Engages and Educates	Students need opportunities to practice the math skills we teach, but traditional worksheets and text-based problem sets don't keep them engaged. We'll learn three activities that pique their interest and stretch their brains, while providing critical skills practice.
7.20.21 @ 11:30	Jane Felling	PK-2	Shuffling into Math: Hands on Math Games with Cards in a Hands Off World	We need to keep our students active and engaged in meaningful, hands-on games and activities. Come prepared to play author Jane Felling's favorite card games that can be played in all settings, in person socially distanced, virtual or hybrid settings. Games for operational fluency and place value using cards as the manipulative will be the focus. PDF handouts will contain concept skill checklists for assessment, gameboards, and math journal extensions. You will also receive strategies for socially distancing and teaching the games virtually. ALL PARTICIPANTS NEED TO HAVE A DECK OF CARDS READY AND BE READY TO PLAY.
7.20.21 @ 11:30	Kris Childs	PK-5	Rethinking Our Classrooms: Teaching Mathematics for Social Justice	Every child brings into the classroom a unique background and experiences. It is time to for students to experience a mathematics experience that builds upon their background and experiences. In this session participants will make sense of social justice in mathematics education, create an environment conducive to teaching mathematics for social justice, and learn how to embed social justice into mathematics instruction.
7.20.21 @ 11:30	Kevin Dykema	Grades 6-8	Productive Struggle + Manipulatives = Success!	A vital part of today's mathematics classroom includes rich mathematical tasks that engage students in productive struggle. This session will explore how to use manipulatives as entry points to work through rich mathematical tasks and encourage each and every student to understand how to harness the power of productive struggle and deepen their mathematical understanding.
7.20.21 @ 11:30	Sarah Quebec Fuentes	High School/C ollege	S3D: Fostering and Improving Small-Group, Student-to-Student Discourse	Placing students in small groups does not automatically imply that the students will be able to productively interact with each other about the mathematics. In this presentation, you will learn about strategies and tools to examine and improve your practice with respect to fostering and improving small-group, student-to-student discourse.
7.20.21 @11:30	Hillary Woest	Grades 6-12	Teacher Health & Wellness: It's Time to Reclaim Our Health!	Educators have a tendency to give to everyone else first and have nothing left for themselves. This chronic lack of self-care can lead to a general sense of physical, mental and emotional dis-ease, and set us on unnecessarily early paths to poor health and teacher burnout. The good news is that this CAN BE avoidable, and we have the power to be the heroes of our own stories through daily action steps and designing sustainable healthy habits. This workshop will explore the five pillars of health and introduce participants to creating Individual Wellness Plans that are realistic and sustainable. Educators, it's time to reclaim our health!
7.20.21 @11:30	Samla Velasquez	Grades 3-5	Steps Towards Math Stations	Want to implement stations in your classroom? Nervous about diving into a new classroom structure? Join us for an interactive workshop and explore how you can take baby steps toward implementing small groups and station work in your classroom! Walk away with a variety of structures for your math block as well as tips and tricks for success.
7.20.21 @ 1:00	Ana Aranda	Grades 3-5	Goal Getter: Student Goal-Setting and Data Tracking	What does it look like when we empower our students to take ownership of their learning in mathematics? What supports can we provide that will enable our students to make and track their own goals and create individual pathways to success in mathematics? Join us as we explore a "Goal Getter" initiative that supports student learning and creates independent mathematicians!
7.20.21 @ 1:00	Brad Fulton	Grades 6-8	Developing Proportional Reasoning	Proportional reasoning is a crucial topic that must be developed in upper elementary and middle grades. We'll address how this concept can be fostered incrementally through nine representations that build upon one another from most conceptual up to cross products, creating a solid foundation for proportional thinking.
7.20.21 @ 1:00	Dr. Christopher Hiatt	High School/C ollege	Using GEOGEBRA in Geometry	In this session, we will go through an introduction of how to create geometric constructions and geometry demonstrations using GEOGEBRA.

7.20.21 @ 1:00	Jane Felling	PK-2	Shake Up Your Fluency Practice - Box Cars Favorite Dice Games for in Person and Virtual Teaching Settings	We need to keep our students active and engaged in meaningful, hands-on math games and activities, whether we are teaching in person, virtually or in a hybrid setting. Come prepared to play author Jane Felling's favorite dice games that can be played in all settings. Jane will show you how to adapt math shakers and dice tray games for social distancing in the classroom, and how to adapt the games to virtual instruction for play at home. You will receive gameboards, math journal ideas and concept skill checklists that can be used for assessment. Concepts covered include operational fluency and place value. ALL PARTICIPANTS NEED 7 REGULAR DICE, BE PREPARED TO PLAY!
7.20.21 @ 1:00	Amanda Beldin	Grades 3-5	The Engaging Math Classroom	STOP the worksheets! True student engagement cannot thrive until expectations are set, students "own" their learning, and the work is meaningful and rigorous. Learn how engaging lessons can make a students' personal growth soar!
7.20.21 @ 1:00	Kevin Dykema	Grades 6-8	Manipulatives, Real and Virtual: Effectively Teaching the Standards	Are you looking for ways to help your students develop a strong conceptual understanding in math in any learning environment? Discover benefits of using virtual and traditional manipulatives in your class, whether in-person or virtual. We'll explore strategies with manipulatives that will engage each and every student to help them develop a better understanding of math, regardless of the learning environment.
7.20.21 @ 1:00	Kurt Salisbury	Grades 6-8	Experience the Joy and Beauty of <i>Middle School</i> Mathematics through Desmos	Desmos, as a tool for instruction, has the power to display the beauty of mathematics through a variety of animations, digital manipulatives, and connected ideas. In this session we'll explore how Desmos can make visual patterns come to life, connect mathematical representations, and show mathematics as a series of real-world actions. Participants will learn: (1) how visual patterns show students the beauty of mathematics free from the barrier of algebraic language and how Desmos can make those patterns come alive, (2) the variety of ways Desmos can connect representations in the form of tables, graphs, equations, digital manipulatives, and animations, (3) how Desmos can connect mathematics to real world problems, (4) the ability for Desmos to create mathematical games for students.
7.20.21 @ 1:00	Kristen Acosta	PK-2	The Power of Pictures: Utilizing Images in Engage Students in Math	Using pictures to start mathematical conversations is a sure-fire way to engage all learners. Not only do images spark curiosity, they help students visualize the math to what they are learning. With a question like "How Many?", students will be using mathematical notations to describe what they are seeing. Come see if a picture is worth a thousand words. Using pictures to start mathematical conversations is a sure-fire way to engage all learners. Images will spark curiosity. Visualizing math is the key to understanding and solving problems. Come see if a picture is worth a thousand words.
7.20.21 @ 2:30	Jo Ann Bilderback	PK-12	STAAR Redesign: New Item Types	TEA will present samples of the new item types in development for the State of Texas Assessment of Academic Skills (STAAR) in accordance with House Bill 3906. Educators will have the opportunity to provide feedback on the new item types via survey during the presentation.
7.20.21 @ 2:30	Clair Want	Grades 6-8	Manipulatives in the Middle	If manipulatives help students to form a solid foundation in math, then why are we reserving them for early elementary? What manipulatives are essential for a middle school classroom? How can we use the same manipulatives in new ways? Join us as we explore supporting student engagement and differentiation in the math classroom with effective use of manipulatives. Let's put learning in the students' hands!
7.20.21 @ 2:30	Kris Childs	Grades 6-12	Rethinking Our Classrooms: Teaching Mathematics for Social Justice	Every child brings into the classroom a unique background and experiences. It is time to for students to experience a mathematics experience that builds upon their background and experiences. In this session participants will make sense of social justice in mathematics education, create an environment conducive to teaching mathematics for social justice, and learn how to embed social justice into mathematics instruction.

7.20.21 @ 2:30	Deborah Ball	High School/College	Don't Be "Mean": Grading for Student Success	Why do we traditionally grade students in math for percent correct and then take the average of those grades? Is this an accurate measure of what they know? Does it motivate struggling learners to work harder? Is grading for right or wrong really the quickest way to grade? We will discuss these questions and explore the use of rubrics as a possible alternative to traditional percent correct grading. Participants will have the opportunity to review actual rubrics for various math assignments and take away these files for their own classroom use. If the session is live, participants will have the opportunity to create their own rubric for a classroom activity.
7.20.21 @ 2:30	Kimberly Rimbey	Grades 3-5	The Ten-Frame Grows Up: Using the "Infinite Ten Frame" in Grades K-5	The ten-frame has been used as an organizational structure for numbers 0-10 for decades. However, this amazing tool has utility far beyond the early primary classroom. Join us as we explore ways to use the "infinite" ten-frame structure to represent and operate with multi-digit numbers through classroom games and activities.
7.20.21 @ 2:30	Nallely Hernandez	PK-2	Math Routines - Let's get students excited about math!	Laney Sammons, author of Guided Math, states "the morning routine we establish sets the tone for the day." Join me as we discuss and learn about a variety of math routines that include number talks and choral counting. Students' excitement about math grows as they discover patterns in numbers while developing number sense.
7.20.21 @ 2:30	Ricky M Mikelman	Grades 3-5	Strip Diagrams with Fractions	Word problems are often challenging for our students, and fractions add a layer of complexity. During this session, we'll highlight fraction problems and how a strip model and read-draw-write can help students visualize the problem to increase their understanding.
7.20.21 @ 2:30	Kurt Salisbury	9-12/College	Experience the Joy and Beauty of <i>High School</i> Mathematics through Desmos	Desmos, as a tool for instruction, has the power to display the beauty of mathematics through a variety of animations, digital manipulatives, and connected ideas. In this session we'll explore how Desmos can make visual patterns come to life, connect mathematical representations, and show mathematics as a series of real-world actions. Participants will learn: (1) how visual patterns show students the beauty of mathematics free from the barrier of algebraic language and how Desmos can make those patterns come alive, (2) the variety of ways Desmos can connect representations in the form of tables, graphs, equations, digital manipulatives, and animations, (3) how Desmos can connect mathematics to real world problems, (4) the ability for Desmos to create mathematical games for students.
7.20.21 @ 2:30	Olivia Odileke	Grades 6-8	5 Ways to Virtually Increase Student Engagement	How can you compete with YouTube, Snapchat, or Minecraft? You can! Learn how to make your math lessons more interactive with 5 research-based strategies for increasing student engagement online. Be ready to use any existing lessons and insert any of these methods to help students stay connected to the learning goal of your virtual lesson with simple ed tech tools.
7.21.21 @ 10:00	Elizabeth Clark	PK-2	#KinderCan Flip Over FlipGrid	Are you looking for a new platform to give all your students a voice in your classroom? Join me as we discover how FlipGrid can be used in your classroom, even with the youngest of learners. Learn how FlipGrid provides students with the opportunity to use mathematical academic language and saves time documenting student responses. You will leave this session with tips and tricks you can apply in your class in the first few weeks
7.21.21 @ 10:00	Denise Thornton	Grades 6-12	Activate and Amplify Rigorous Teaching and Learning	We all know that math instruction should be rigorous, but what does rigor really look like in a mathematics classroom? Through classroom video analysis, participants will explore how the use of a classroom walkthrough tool focused on observable teacher and student actions can turn an often-nebulous term like "rigor" into something that is concrete and, when incorporated into a continuous improvement cycle, lead to actionable next steps that will directly impact teaching and learning.
7.21.21 @ 10:00	Maria Gonzalez	Grades 3-5	Fact Fluency and Young Mathematicians: One Campus's Journey	Raise your hand if fact fluency is always a "hot topic" on your campus. Have you ever wondered how to implement a fact fluency initiative that includes the implementation and monitoring of strategy-based activities, running records, and data? Join us as we share how we've started a fact fluency initiative on our campus and the lessons we've learned along the way!

7.21.21 @ 10:00	Mariana Breaux	Grades 3-5	Mathematizing Your School: Creating and Sharing a Love of Mathematics	How can we mathematize our schools and create environments where teachers and students find joy in doing mathematics? How can initiatives such as "Mathematician Streets", Math Committees, and Math Spirit Weeks create positive experiences with mathematics? Join us as we explore ways to create and share a love of mathematics among our teachers and students!
7.21.21 @ 10:00	Paula Taylor	Grades 6-8	Let's Give Them Something to Talk About: Academic Discourse in Math	In the rush of covering standards in a short class period we often forgot how powerful it can be to stop and give students the opportunity to discuss. In this interactive session you will learn how to select the correct lessons, craft solid DOK questions, and carry out meaningful academic discourse sessions that will boost the mathematical confidence of your students.
7.21.21 @ 10:00	Tani Sapp	Grades 6-8	Hands on. Mics on. Interactive math learning in the virtual classroom	Middle school math should be interactive and fun, but what does that mean in the virtual classroom? We will look at different free programs and stimulations that will allow your students to work together and practice prealgebra concepts virtually. Come discover creative ways to give your students a collaborative math experience they will love.
7.21.21 @ 10:00	Jo Ann Bilderback	High School/College	TEA Update for High School Mathematics	This session will present the most current information regarding high school mathematics education. Critical issues such as instructional resources, state and federal requirements, PAEMST, and STAAR will be discussed. Attendees will be given the opportunity to ask questions.
7.21.21 @ 10:00	Cheryl Kerr	Grades 6-12	Cultivating Remote Relationships	Relationships in a digital era are different, evolving and not what we are accustomed to. You are invited to explore ways to brand yourself as an innovative educator and build authentic student-teacher relationships with the next generation!
7.21.21 @ 11:30	Jane Felling	K - 2	Connecting the Dots - Domino Math Games for Socially Distanced/Virtual Settings	Dominoes are one of the most versatile and easiest math manipulatives to use whether you are teaching in person, small groups, or in a virtual setting. Come prepared to play our favorite domino math games that help your primary students with the following concepts: numeration, subitizing, patterns, graphing, operations, and place value. You will get ideas for socially distancing and managing domino sets, gameboards, assessment check lists and journals writing extensions.
7.21.21 @ 11:30	Catherine (Katy) Wilson	Grades 6-8	Re-Designing the Daily Warm-up	Athletes do it, musicians do it, and so do chess players. They all engage in some form of physical or mental warm-up activity prior to their specialty, be it a 100-yard dash, a piano concerto, or an international chess match. The right start to a lesson is as important to the teacher as calisthenics are to a runner. Sparking student interest at the beginning of class kindles a fire that remains lit for the balance of the period. This session contains thematic daily warm-ups that will shake up the first 5 of your math class, set the tone for the lesson you're about to teach, and get students excited about math. Come see what students love about "Taco-boutitTuesday", "Figure it out! Friday", and the other daily warm-up themes.
7.21.21 @ 11:30	Kristen Acosta	3-5	The Power of Pictures: Utilizing Images in Engage Students in Math	Using pictures to start mathematical conversations is a sure-fire way to engage all learners. Not only do images spark curiosity, they help students visualize the math to what they are learning. With a question like "How Many?", students will be using mathematical notations to describe what they are seeing. Come see if a picture is worth a thousand words. Using pictures to start mathematical conversations is a sure-fire way to engage all learners. Images will spark curiosity. Visualizing math is the key to understanding and solving problems. Come see if a picture is worth a thousand words.
7.21.21 @ 11:30	Huzefa Kapadia	Grades 6-8	How to Teach Math on YouTube Like a Legend	I currently operate two YouTube channels focused on mathematics topics: (1) Scalar Learning and (2) Math Puzzles, with a subscriber count of ~21,000 and over 2 million views. This session will focus on teaching math to

				students via YouTube. This has been one of the most rewarding experiences of my life, and I will teach others how to (a) launch a math channel and (b) create quality content.
7.21.21 @ 11:30	Laura Meyers	Grades 6-8	Let's Talk Math: Engaging Students in Mathematical Discourse	Want to get your students talking about numbers? Join us for an interactive look at how to promote dialogue and discourse in your classroom. Learn how to use questioning strategies that encourage student interaction and how to establish a learning community that sets the stage for discourse. You will walk away with a ready-to-implement structure and ideas of how to start the conversation in the classroom!
7.21.21 @ 11:30	Stephanie Ely	Grades 3-5	Supporting and extending language development in the context of mathematical sense-making	At Zearn Math we believe that language learners of all levels can engage with grade-level math content with their peers when it is scaffolded with the appropriate amount of linguistic support. In this presentation, we'll explore strategies that foster the side-by-side development of math understanding and language competence that all teachers can use to support English Language Learners. The session will empower teachers to create inclusive classroom environments designed for daily differentiation and social belonging. During this presentation, participants will explore how to empower all students by supporting students' language development as they learn math and encounter areas of struggle. First, participants will sample activities that scaffold problem solving, rather than simplify language, and experience how it broadens students' exposure to English so they can expand their vocabularies, navigate increasingly complex texts, and communicate their thinking orally and in writing. Second, participants will examine word problems using the Concrete to Pictorial to Abstract (CPA) approach and explore how CPA can support language development, as students describe connections across representations. Finally, participants will engage with Zearn Math digital lessons to see how digital learning provides students with additional practice to make meaning of math concepts and articulate them. Participants will leave with strategies to scaffold math instruction and provide daily language development opportunities for all learners.
7.21.21 @ 11:30	Sara Van Der Werf	PK-12	Creating the Conditions to Surface Every Student's Reasoning	All students have a lot to say about how they make sense of mathematics. Engaging students in routines designed to create safe spaces to share their ideas is key to surfacing every student's reasoning. This work begins with teachers critically looking at the often-invisible structures that block or support all students in sharing their ideas.
7.21.21 @ 11:30	Reagan Tunstall	Grades 3-5	Guided Math: Success for You and Your Students (Grades 3-5)	Guided math provides a structure for best practices: differentiation, formative assessment, hands-on learning, small group and whole group, etc., but it isn't easy. This session is designed to make guided math work for you and your students. You will leave with ideas to use in your classroom immediately.
7.21.21 @ 1:00	Janelle Chisholm	Grades 6-8	Ratio Tables- Your NEW BFF!	Join us to see how to use ratio tables to solve real-world problems involving multiplication and division of decimals. Your students will develop their number sense and reasoning skills using this strategy.
7.21.21 @ 1:00	Jane Felling	K - 2	Primary Place Value Games	Number Lines, Cards, and place value dice are easy to find, versatile to use and great for teaching many place value concepts. Concepts covered will include: using benchmarks of 10, 100, 1000, pattern counting, laying the foundations for rounding and expanding numbers, identifying value, comparing numbers. Participants will learn strategies for socially distancing the games, how to adapt the games if teaching virtually, and how to differentiate the activities to meet the needs of all students in your program. You will receive gameboards, journal writing ideas, concept skill checklists to help with your assessment.
7.21.21 @ 1:00	Mary Davis	Grades 6-8	Navigating Inside Mathematics: For Secondary Mathematics Teachers and Leaders	Inside Mathematics has been revised, the content refreshed and more added!! Inside Mathematics provides a resource for educators around the world who struggle to provide the best mathematics instruction they can for their students. Too often, teachers who excel at reaching students have few ways of sharing these strong practices with others – and teachers who struggle, struggle alone. Inside Mathematics opens the doors to a central location where you can find resources to help teachers with professional learning. We will use videos of real classrooms to take classroom walks and discover ways to use the site to create shared learning experiences with your teachers, including in person or virtual sessions. Come and see how the exciting new and improved Inside Mathematics will help you address the content and pedagogical needs of your staff.

7.21.21 @ 1:00	Sarah Pennington	High School/C ollege	Desmos During a Pandemic!	It's so hard getting high school students to participate in online courses. Desmos is a great tool to keep online students engaged and excited about math! In this session, we will learn how to use the sketch and Geometry tools to create shapes, find congruence and solve for variables between polygons!
7.21.21 @ 1:00	Twana Young	Grades 3-5	Cultivating Mathematicians: When DEI Drives Design	Students of color need a curriculum that invites them to embrace their mathematical brilliance, cultivates identity, and highlights mathematical contributions of people who look like them. We recruited educators, students, and parents from across the U.S. to co-design a curriculum to push against the status quo. Join us as we share our work to create content designed through the lens of diversity, equity, and inclusion to empower all students—especially students of color.
7.21.21 @ 1:00	Donna L. Knoell	Grades 3-5	Using Strategies, Effective Tools, and Reasoning to Understand and Solve Problems	Speaker will actively engage participants as they learn problem solving strategies and apply them to real world problems. She will also share strategies to develop mathematical thinking, discourse, and ways to use manipulatives and models to help students visualize concepts.
7.21.21 @ 1:00	Jennie Kelly	High School/C ollege	Transformation of Functions from Algebra Through Precalculus	Use one method to graph the transformations of the parent functions from linear to trigonometric. We will explore the vertical and horizontal transformations of a generic function on the TI-Nspire. Then we will apply our understanding of transformations and use tables to graph the transformed functions.
7.21.21 @ 2:30	Winifred Mallam	PK-2	LMN: Math in Literature and with Nursery Rhymes	Early childhood teachers expose their students to nursery rhymes and children's literature. Now let's incorporate those rhymes and literature during mathematics instruction using hands-on, mind-provoking activities. Sample activities with ready-to use classroom instructions will be shared with participants.
7.21.21 @ 2:30	Anu A Gokhale	High School/C ollege	Using Intentional Technologies in Mathematics Classrooms	Teaching and learning goals ought to drive instructors' use of technology, not the other way around. We need to think intentionally about the technologies we use, the ways in which we use them, and the predilections and prejudices which inform our choices. Such due diligence would allow us to reclaim virtual spaces for our teaching. The presentation will break down and discuss (using numerous examples) the essential principles for matching technology to pedagogy. The participants will learn the strategies (through activities) to select appropriate technologies to teach mathematics content while fostering gender- race- and culture-neutral teaching/learning practices.
7.21.21 @2:30	Michelle Nance	Grades 6-8	Code Cracking Coaching: Insider Strategies to Build Collective Teacher Efficacy	New demands, more rigorous standards, even more gaps with students. How do you effectively implement, empower, and motivate you and your staff to meet these challenges? Learn how developing collective teacher efficacy teams can assist in creating a culture where teams elevate student learning. You will also learn how to build the team, but you will also see how these teams can empower and motivate others to take action. Learn the secret sauce of building collective teacher efficacy effectively using data to pinpoint student needs, developing a systemic Response to Intelligence plan, and using peer coaching and reflection to refine instructional practices.
7.21.21 @2:30	Lyn Crowell, PhD	Grades 3-5	Teaching the Conceptual Underpinnings of Multiplication	Are your students successful with the various models the TEKS requires you to teach about how to multiply? Do you wish your students were more flexible in their understanding of multiplication? Are your students making the connections between the models for multiplication and the standard algorithm? This session takes a deep dive into the standards and the conceptual underpinning of multiplication fluency. Learn concept methods for connecting the models to the algorithm as you motivate your students toward fluency in multiplication.
7.21.21 @ 2:30	Sara Van Der Werf	PK-12	Secondary Math Talks (I'll convince you with ducks!)	Regular math talks in the 6-12 math classroom improve student numeracy skills & empower students to generalize relationships. Grade 6-12 teachers can use math talks to support all students in writing equations to represent algebraic relationships. Several Secondary Math Talks will be modeled. Tips for successful implementation & making student thinking visible will be shared. Participants will be empowered to empower students to engage in math reasoning.

7.21.21 @ 2:30	Patty Low	Grades 6-8	Visuals Do Matter	Promote curiosity in math by allowing students to wonder and make meaning of models. We will explore how thinking strategies and simulations guide all students in deepening their understanding of ratios. Turn that phrase "Math is hard" into "Math is fun!"
7.21.21 @ 2:30	Donna L Knoell	Grades 3-5	Uncovering and Clarifying Frequent Grade 3-5 Errors and Misconceptions: Becoming the Solution for Deep Conceptual Understanding	Speaker will offer strategies and tools to untangle math misconceptions and identify and clarify the most frequent conceptual errors occurring in grades 3-5, to develop deep understanding, including the application of concepts to real world problems.