

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	8:30:00 AM	Arrowhead A	Andrea	Hollifield	Uncommon Ways to Solve Equations	Students should be flexible in solving one variable equations. This includes being able to recognize when one strategy is more appropriate to apply than another. Join us to explore strategies such as Build & Undo; Using Structure; Balancing; and Visual Representations and discuss how these strategies are used in Math 1, 2 and 3.	9 - 12
Thursday	8:30:00 AM	Arrowhead A	Karen	McPherson	Uncommon Ways to Solve Equations		
Thursday	8:30:00 AM	Arrowhead B	Colleen	Watson	Bisquick® can kill you and other fun, but WRONG, facts!	People often believe "facts" they hear/read, regardless of their truth. We will examine newspaper articles, facebook, and bad graphs to see how data is manipulated/misrepresented.	9 - 12
Thursday	8:30:00 AM	Auditorium I	Justin	Lunsford	Math 1 in a 1-to-1 setting	In this session you will receive a look into the 1 to 1 world as it pertains to math 1. Be ready to dig into the math 1 curriculum and discuss ways to make math 1 concepts interactive while incorporating technology.	9 - 12
Thursday	8:30:00 AM	Auditorium II	Caitlin	Keamey	Ensuring Rigor in Inquiry Based Instruction	Come learn about methods for ensuring that all students are achieving a rigorous objective when implementing an inquiry based math lesson.	PreK - 5
Thursday	8:30:00 AM	Auditorium II	Lori	Fisher	Ensuring Rigor in Inquiry Based Instruction		
Thursday	8:30:00 AM	Auditorium III	Ivey	Powell	Challenge them to BreakOUT!	Tired of using the same type of review for your students? Come learn how to engage and challenge your students by using boxes and locks!	K - 12
Thursday	8:30:00 AM	Auditorium IV	Kaneka	Tumer	What Does it Mean to be Good at Math?	Parents, students and teachers have well defined ideas about what it means to be good at math. Join me as we investigate these ideas, where these ideas come from and reflect on implications for instruction.	PreK - 5
Thursday	8:30:00 AM	Auditorium IV	Jamie	Beechum	Guided Math		
Thursday	8:30:00 AM	Auditorium IV	Mary	Shaw-Lewis	What Does it Mean to be Good at Math?		
Thursday	8:30:00 AM	Augusta A	Michael	Bosse	High School Math You Don't Know	We will consider new mathematical ideas commensurate with high school mathematics	9 - 12
Thursday	8:30:00 AM	Augusta A	Joe	Boyette	High School Math You Don't Know		
Thursday	8:30:00 AM	Augusta A	Ashley	Demarte	High School Math You Don't Know		
Thursday	8:30:00 AM	Biltmore A	Joy	McCormick	Free Money! The NCCTM Minigrant Process		
Thursday	8:30:00 AM	Biltmore A	Sandra	Childrey	Free Money! The NCCTM Minigrant Process	Curious about the NCCTM minigrant process? This session will discuss the pitfalls, recommendations, curriculum, and NCEES connections of the NCCTM minigrant process. Handouts will be provided.	K - 12
Thursday	8:30:00 AM	Biltmore A	Open				
Thursday	8:30:00 AM	Biltmore B	Open				
Thursday	8:30:00 AM	Blandwood	Jim	deBerjeois	Engage, Talk, Connect ETC., ETC., ETC Creating a Student Centered Classroom	Participate in activities/tasks that Engage your students to Think, to wonder, to question, to Talk, to problem solve and to make Connections!!	9 - 12
Thursday	8:30:00 AM	Blue Ash	Whitney	Honeycutt	Spiraling the Curriculum	Learn how to identify the core concepts of your math curriculum and be able to spiral throughout each domain to support student growth and mastery.	6 - 8
Thursday	8:30:00 AM	Blue Ash	Jaime	Cassada	Spiraling the Curriculum		
Thursday	8:30:00 AM	Blue Ash	Danyah	Hill	Spiraling the Curriculum		
Thursday	8:30:00 AM	Blue Ash	Rhannon	Kriessler	Spiraling the Curriculum		
Thursday	8:30:00 AM	Carolina	Gery	Long	Strategies to Promote Discourse in Math Classrooms	Do you struggle with student engagement in your lessons? You will learn about and practice study team teaching strategies that will help facilitate effective collaboration.	6 - 12
Thursday	8:30:00 AM	Cedar A	Kristina	Kinlaw	Escape the Classroom: Tips and Tools	What is an educational break-out? Learn about this critical-thinking and team building activity and the ways you can make it work in your own classroom.	3 - 5
Thursday	8:30:00 AM	Cedar B	Tasha	Key	Talking Math Heads	Give students the confidence to discuss math by using number lines, number talks, and math talks without fear of making a mistake. We celebrate errors!	3 - 5
Thursday	8:30:00 AM	Cedar B	Lindley	Guri	Talking Math Heads		
Thursday	8:30:00 AM	Cedar C	Connor	Gray	Changing Attitudes About Math through Partnership with Imagine Learning	Shift the attitudes of your students and culture of your schools through inspiring your community with the growth mindset. We'll examine how schools implementing Imagine Math have changed their school culture and inspired kids to love math. Imagine Math is an adaptive math tool that facilitates learning through Live, on-demand 1:1 instruction from over 80 certified math teachers for over 80 hours per week.	K - 12
Thursday	8:30:00 AM	Colony A	Nara	Cocarelli	Logs Connection	Help your students make sense and connections with logarithms.	9 - 12
Thursday	8:30:00 AM	Colony B	Heather	Davis	Connecting Math to Fun!	Need an alternative to those boring worksheets? Want to increase student engagement and fun? This session will demonstrate ready-made activities and games that can be used in your class on Monday!	6 - 12
Thursday	8:30:00 AM	Colony B	Kayla	Chandler	Connecting Math to Fun!		
Thursday	8:30:00 AM	Colony B	Maggie	Nesbitt	Connecting Math to Fun!		
Thursday	8:30:00 AM	Colony C	F. Paul	Wonsavage	Kids' Thinking About Circles, Squares, Rectangles, and Triangles	In this presentation, we will take a look at what research says about kids' thinking in regard to shape identification.	PreK - 2
Thursday	8:30:00 AM	Guilford C	Graham	Fletcher	Keynote K-5		PreK - 5
Thursday	8:30:00 AM	Imperial A	Robin	Barbour	Be a Proportion Pro!	How can we help our students develop a deeper understanding of ratios and proportions? Come explore key understanding, tasks, and strategies to meet the revised NC standards.	6 - 8
Thursday	8:30:00 AM	Imperial A	Christine	Blystad	Be a Proportion Pro!		
Thursday	8:30:00 AM	Imperial B	Elizabeth	Henley	Differentiation Can Be Fun!	Join us for a differentiated math learning experience utilizing multiple tech tools and manipulatives in a middle school classroom.	6 - 8
Thursday	8:30:00 AM	Imperial B	Renee	Fox	Differentiation Can Be Fun!		
Thursday	8:30:00 AM	Imperial C	Peter	Eley	Planning, Implementing and Assessing Middle School math Using Hip-Hop Edu as an Equity tool	This workshop will introduce "Reality Pedagogy" and the process of developing a high energy and high impact lesson plan.	6 - 12
Thursday	8:30:00 AM	Imperial D	Pam	Harris	Keynote 6-12		6 - 12
Thursday	8:30:00 AM	Imperial E	Mahmoud	Harding	The Calculus of Model Rockets	Learn how to take model rocket engine specifications and use Euler's Method to make graphs.	9 - 12
Thursday	8:30:00 AM	Imperial E	Garrett	Love	The Calculus of Model Rockets		
Thursday	8:30:00 AM	Imperial F	Hannah	Worley	Engaging Math with Quizizz/Quizlet Live	Who gets excited about the x-axis? See your classroom transform into excitement, movement and engagement! All courses are available. Pre-built questions or create your own.	9 - 12

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	8:30:00 AM	Imperial F	Cynthia	Whitt	Engaging Math with Quizizz/Quizlet Live		
Thursday	8:30:00 AM	Imperial G	Deborah	Crocker	A Smorgasbord of Middle Grades Math Activities	Participants will engage in hands-on activities involving problem solving, statistics, probability, and algebraic thinking. Activities will be appropriate for learning stations. Handouts will be provided.	6 - 8
Thursday	8:30:00 AM	Imperial G	Betty	Long	A Smorgasbord of Middle Grades Math Activities		
Thursday	8:30:00 AM	Imperial H	Amber	Thomas	The Millionaire Bitcoin-er!	Bitcoin....a scheme or the future of investing? Attend to this interactive session and use graphs and historical data to solve this mystery.	9 - 12
Thursday	8:30:00 AM	Imperial H	Charly	Carpenter	Classroom-Ready Activities for Middle School Math	Participants will engage in hands-on activities involving problem solving, fractions, coordinate geometry, and probability. Manipulatives will be used to focus on conceptual understanding. Hand-outs provided.	6 - 8
Thursday	8:30:00 AM	Morehead	Rebecca	Boyles	Classroom-Ready Activities for Middle School Math		
Thursday	8:30:00 AM	Morehead	Saige	Roberts	Classroom-Ready Activities for Middle School Math		
Thursday	8:30:00 AM	Oak B	Betsy	O'Hara	Making Worksheets WORK!	Taking a math worksheet and turning it into a hands-on activity or station for middle school students.	6 - 8
Thursday	8:30:00 AM	Oak B	Anne	Wallace	Making Worksheets WORK!		
Thursday	8:30:00 AM	Oak C	Ken	Orgain	Escaping Math phobias	Utilizing the Three Acts of a Mathematical Story. Participants will work collaboratively to solve a series of critical thinking real world math problems to open a locked box. Discover how you can help students overcome math phobia's in the math escape room	6 - 8
Thursday	8:30:00 AM	Pebble Beach	Blain	Patterson	An Information Age: Mathematics of Data Science	In this workshop, we will explore the field of mathematics and computer science known as machine learning.	9 - 12
Thursday	8:30:00 AM	Pebble Beach	Sarah	Ritchey	An Information Age: Mathematics of Data Science		
Thursday	8:30:00 AM	Pinehurst	Alicia	Conklin	Learning & Teaching the Math 3 Statistics Standards	In this session, we discuss the statistics standards in Math 3 and how to teach them focusing on the process of making inferences and simulation.	9 - 12
Thursday	8:30:00 AM	Pinehurst	Krystle	Smith	Learning & Teaching the Math 3 Statistics Standards		
Thursday	8:30:00 AM	Pinehurst	Travis	Weiland	Learning & Teaching the Math 3 Statistics Standards		
Thursday	8:30:00 AM	Sandpiper	Stephanie	Bainbridge	Oh The Math They Will Know	Come prepared to play games that incorporate cards and dice to teach counting, place value, comparing numbers, counting on, patterns, addition/subtraction, doubles and more.	PreK - 2
Thursday	8:30:00 AM	Tanglewood	Jessica	Weaver	Ready, Set, Grow!	Appetizers, Snacks, Doggy Bags, and Celebrations of Learning in math?! How we changed our words and policies to implement a growth mindset in our classrooms!	6 - 8
Thursday	8:30:00 AM	Tanglewood	Christina	Wilson	Ready, Set, Grow!		
Thursday	8:30:00 AM	Tidewater A/B	Tim	Scripko	Using Algebra Tiles, Polynomials to Completing the Square.	Teachers will learn how to use Algebra Tiles to make Algebra into a concrete visual experience for their students.	9 - 12
Thursday	8:30:00 AM	Tumbery	Somer	Southers	Math and reading go together like oil and vinegar	This workshop will focus on how to integrate the subject areas of math and reading. We will discuss examples of how to integrate both subject areas as well as give the participants a chance to show how they do it in their classrooms.	3 - 5
Thursday	9:30:00 AM	Auditorium I	Catherine	Neely	Routines to Foster Mathematical Discourse	Want to get students talking about math? Introduce them to routines that engage all learners, including number talks, visual patterns, and "Would You Rather Math."	6 - 8
Thursday	9:30:00 AM	Auditorium I	Jule	Bacak	Routines to Foster Mathematical Discourse		
Thursday	9:30:00 AM	Auditorium II	Tery	Gunter	Number Talks in Grade 2	Grade 2: Tools for Teachers, Number Sense During this session we will model how to address the second grade standards through number talks. We will explore how second graders' strategies progress throughout the year.	PreK - 2
Thursday	9:30:00 AM	Auditorium II	Carly	Morton	Number Talks in Grade 2		
Thursday	9:30:00 AM	Auditorium III	Jennifer	Parker	How Do I Do That?!: Classroom Management for Implementing All Those Best Practices You've Seen	This session will share practical classroom management ideas for flipping, PBL, technology, and literacy from teachers who have been making it work. Come see!	6 - 12
Thursday	9:30:00 AM	Auditorium IV	Nikia	Graham	High Expectations in Kindergarten	How might we balance developmentally appropriate instruction with high expectations in kindergarten? Join us as we explore this question!	PreK - 2
Thursday	9:30:00 AM	Auditorium IV	Kaneka	Turner	High Expectations in Kindergarten		
Thursday	9:30:00 AM	Billmore A	Open				
Thursday	9:30:00 AM	Billmore B	Open				
Thursday	9:30:00 AM	Blue Ash	Leigh	Belford	K-2 Place Value: More Than Just 10s and 1s!	Together we'll explore a sequence of tools and tasks to help K-2 students develop a robust understanding of place value.	PreK - 2
Thursday	9:30:00 AM	Cedar A	Ginean	Royal	I'm a new teacher, now what?	How to build confidence as a new teacher along with best practices strategies to take back today.	K - 12
Thursday	9:30:00 AM	Cedar B	Stephen	Lester	Placing a Math Course on Students: How to engage students in real life Math.	Learn methods to put a Math Whammy on students to show how Math connects to their lives. Inspired by Jon Scieszka's Math Course.	K - 12
Thursday	9:30:00 AM	Cedar C	Sumer	Inman	Math Fairs- Organization and Topics	Learn about what it take to organize a math fair at your school/district. Also learn about topic ideas from past math fair winning projects.	K - 12
Thursday	9:30:00 AM	Cedar C	Heather	Davis	Math Fairs- Organization and Topics		
Thursday	9:30:00 AM	Cedar C	Holly	Goforth	Math Fairs- Organization and Topics		
Thursday	9:30:00 AM	Cedar C	Wendy	Graham	Math Fairs- Organization and Topics		
Thursday	9:30:00 AM	Colony C	Thom	O'Brien	Maximizing High School Technology for Math Courses	Technology has changed classrooms. Online, interactive math simulations allow students to take problems, change variables, evaluate outcomes, and have opportunity to truly understand the outcomes.	9 - 12
Thursday	9:30:00 AM	Oak B	Lisa	Neal	Math Vocabulary Hacks	Are you looking for strategies to engage your students in learning math vocabulary? Come join the fun and participate in activities that you can implement in your classroom tomorrow.	6 - 12
Thursday	9:30:00 AM	Oak C	Danyah	Hill	Mastering the Curriculum	Build a foundation focused on the most heavily tested standards. Scaffold student learning by analyzing data, building strategy groups, remediating, and reassessing to promote growth.	6 - 8
Thursday	9:30:00 AM	Oak C	Jaime	Cassada	Mastering the Curriculum		
Thursday	9:30:00 AM	Oak C	Whitney	Honeycutt	Mastering the Curriculum		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	9:30:00 AM	Oak C	Rhiannon	Kriessler	Mastering the Curriculum		
Thursday	9:30:00 AM	Pinehurst	Christina	Petty	Transforming Formative Assessments with Picklers	Save time, collect data, and engage students by using Picklers as a formative assessment tool in your classroom. You and your students will love it!	K - 12
Thursday	9:30:00 AM	Pinehurst	Emily	Myes	Transforming Formative Assessments with Picklers		
Thursday	9:30:00 AM	Tumbery	Leah	McCoy	Learning Tasks that Connect with Student Assets	We will focus on planning learning tasks that consider personal, cultural and/or community assets of students. Several application projects at varied levels will be shared.	K - 12
Thursday	10:30:00 AM	Arrowhead A	Brenda	Hawks	Careers That Use Math: Our students will use math in their future careers!	Careers that Use Math: Our students will use math in their future careers! Inviting guest speakers allows students to meet new people in a professional context, shows how essential math skills are for future careers, forms cross-curriculum connections and emphasizes effective communication skills. (Provided will be a guest speaker invitation list, example presentations with references to math standards and cross-curriculum standards, and student reflections.)	6 - 8
Thursday	10:30:00 AM	Arrowhead A	Willie Chad	Hawks	Careers That Use Math: Our students will use math in their future careers!		
Thursday	10:30:00 AM	Arrowhead B	Nikki	Stamey	Guided Math Stations	Ever struggle with how to reach every child at his/her level in mathematics? Come and let us show you ways to implement guided	3 - 5
Thursday	10:30:00 AM	Arrowhead B	Christina	Baker	Guided Math Stations		
Thursday	10:30:00 AM	Auditorium I	Jere	Confrey	Top Ten Misconceptions in Middle School Math based on	We present and discuss the top ten misconceptions based on an analysis of over 45,000 diagnostic assessments of students' progress	6 - 8
Thursday	10:30:00 AM	Auditorium I	William	McGowan	Top Ten Misconceptions in Middle School Math based on Assessment Data		
Thursday	10:30:00 AM	Auditorium II	Dianne	Wells	Tools for 2nd Grade Teachers	We will share the 2nd grade revised standards in the K-5 Instructional Framework and the wonderful resources available to all! You won't believe your eyes!	PreK - 2
Thursday	10:30:00 AM	Auditorium II	Katherine	Mawhinney	Tools for 2nd Grade Teachers		
Thursday	10:30:00 AM	Auditorium III	Lauren	Baucom	Grading for Learning: What Counts?	If we are focused on learning with a growth mindset, why do we grade? What should we grade? How can we make grading about assessment instead of measurement? Come discuss equitable grading practices with us that move your grading from pushing a fixed mindset, and implement these easy fixes in your department tomorrow.	6 - 12
Thursday	10:30:00 AM	Auditorium III	Kelsey	Anselmi	Grading for Learning: What Counts?		
Thursday	10:30:00 AM	Augusta A	Michael	Bosse	Developmental Math: A Holistic Perspective	Successful developmental math addresses: appropriate content; problem solving, reasoning, and reading skills; student beliefs and affect; instructor competence and affect; and other dimensions	K - 12
Thursday	10:30:00 AM	Augusta A	Joe	Boyette	Developmental Math: A Holistic Perspective		
Thursday	10:30:00 AM	Augusta A	Ashley	Demarte	Developmental Math: A Holistic Perspective		
Thursday	10:30:00 AM	Augusta A	John	Sevier	Developmental Math: A Holistic Perspective		
Thursday	10:30:00 AM	Augusta B	Lauren	Stott	Hanging Out On a Number Line: You're on the Spot!	Get up and move as you physically demonstrate your understanding of numbers, operations, and algebraic reasoning. This powerful workshop helps students see and feel position on a number line. Number sense and reasoning are needed to locate your spot. Answer the following: The endpoints are $\frac{3}{4}$ and $1\frac{3}{4}$. Where are you located if you are $1\frac{1}{3}$?	3 - 5
Thursday	10:30:00 AM	Biltmore B	Mitchell	Lebowitz	Getting started with technology to boost student engagement	Participants will use a variety of technological tools to increase students' engagement in planning, enacting, and assessment of instruction, and leave with an online toolbox!	6 - 12
Thursday	10:30:00 AM	Biltmore B	Wayne	Williams	Getting started with technology to boost student engagement		
Thursday	10:30:00 AM	Blandwood	Thomas	Coleman	Concretely Making Sense of Fraction Operations	This session will focus on making sense of fraction operations using fraction tiles. It is perfect for anyone working with fraction addition, subtraction, multiplication, and division.	K - 12
Thursday	10:30:00 AM	Blue Ash	Elizabeth	Tucker	Strategies to Improve Fluency	Students need visuals and exposure to different strategies so they can flexibly manipulate numbers and math facts.	PreK - 2
Thursday	10:30:00 AM	Blue Ash	Shannen	Bretz	Strategies to Improve Fluency		
Thursday	10:30:00 AM	Blue Ash	Linda	Simons	Strategies to Improve Fluency		
Thursday	10:30:00 AM	Carolina	Charity	Cayton	Cultivating Connections between Teaching, Learning, and Assessment	High school mathematics teachers share best practices from two principles – Teaching & Learning and Assessment – from Principles to Actions that they implemented in their classrooms. Experience a series of mini-presentations full of practical ideas.	9 - 12
Thursday	10:30:00 AM	Carolina	Ron	Preston	Cultivating Connections between Teaching, Learning, and Assessment		
Thursday	10:30:00 AM	Cedar A	Katherine	Baker	Reflection to Action	Explore teacher reflection strategies that motivate student-focused instruction. You will leave with a reflective toolkit that will help invigorate and refresh your mathematics instruction.	PreK - 5
Thursday	10:30:00 AM	Cedar A	Montana	Smilthey	Reflection to Action		
Thursday	10:30:00 AM	Cedar B	Michelle	Stephan	Coaching for the 5 Practices for Orchestrating Math Discussions	Making the 5 Practices work in your school; insights from teachers, coach, assistant principal and researchers.	6 - 8
Thursday	10:30:00 AM	Cedar B	Yachannah	Galloway	Coaching for the 5 Practices for Orchestrating Math Discussions		
Thursday	10:30:00 AM	Cedar B	Doug	Goldman	Coaching for the 5 Practices for Orchestrating Math Discussions		
Thursday	10:30:00 AM	Cedar B	Gerold	Griggs	Coaching for the 5 Practices for Orchestrating Math Discussions		
Thursday	10:30:00 AM	Cedar B	Martha	Motley	Coaching for the 5 Practices for Orchestrating Math Discussions		
Thursday	10:30:00 AM	Cedar B	Kendra	Parker	Coaching for the 5 Practices for Orchestrating Math Discussions		
Thursday	10:30:00 AM	Cedar B	Luke	Reinke	Coaching for the 5 Practices for Orchestrating Math Discussions		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	10:30:00 AM	Cedar C	Caroline	Fongemy	Total divided by Parts....this will rock your world!	Fifth Grade teachers do you struggle to teach NF3 or NF7 word problems? Come learn some techniques that will build a solid foundation to understanding and applying these two standards that will revolutionize your math teaching!	3 - 5
Thursday	10:30:00 AM	Cedar C	Alexandra	Medley	Total divided by Parts....this will rock your world!		
Thursday	10:30:00 AM	Colony A	Shirley	Diseler	Teaching Math with the LEGO Brick 3-5	Participants will engage in the modeling of math concepts such as fractions, multiplication, division, measurement using LEGO Bricks. Handouts provided.	3 - 5
Thursday	10:30:00 AM	Colony B	Sheila	Brookshire	Connecting Children's Books and Mathematics	Let's get together to engage in math activities connected to children's literature! We will use one activity from each of the domains.	3 - 5
Thursday	10:30:00 AM	Colony C	Danielle	Long	Take a Peek into Student Thinking	Our students' work is a valuable window into their thinking! View student work through an admiring lens to determine individual strengths and next steps.	PreK - 2
Thursday	10:30:00 AM	Colony C	Laurie	Merlo	A Better Way to Build Math Fluency?	It is critical that students have strong fact fluency skills. Using a game-based system provides individualized instruction and targeted practice while having fun.	K - 12
Thursday	10:30:00 AM	Imperial A	Marfa	Garcia	Is This Really Going to Work?: Looking at Student Attempts to Generalize About the Operations	In this K-5 session, we will examine how students notice, make sense of, and articulate arguments and then justify their claims about the operations.	PreK - 5
Thursday	10:30:00 AM	Imperial A	Meredith	Stanley	Is This Really Going to Work?: Looking at Student Attempts to Generalize About the Operations		
Thursday	10:30:00 AM	Imperial A	Kaneka	Turner	Is This Really Going to Work?: Looking at Student Attempts to Generalize About the Operations		
Thursday	10:30:00 AM	Imperial B	Heather	Thomas	Making Problem Solving Meaningful	This workshop will explore engaging ways to provide meaningful problem solving experiences to students at varying levels.	3 - 5
Thursday	10:30:00 AM	Imperial C	Cynthia	Whitt	Don't Fowl Out, Use A FAL	Want higher engagement and more collaboration? Want immediate access to hands-on materials? Participants will get to engage in collaborative activities. Math 1-3.	9 - 12
Thursday	10:30:00 AM	Imperial C	Hannah	Worley	Don't Fowl Out, Use A FAL		
Thursday	10:30:00 AM	Imperial D	Scott	Hendrickson	Keynote 6-12		6 - 12
Thursday	10:30:00 AM	Imperial E	Wendy	Bartlett	Math 1 Tasks - Tried and True Success!	Tired of sifting through the thousands of resources and trying to decide which ones will be successful? I will be sharing tasks that I have used with my Math 1 classes that have actually worked! Tasks have been adapted from Illustrative Mathematics, MVP, Desmos, and Discovery Education. Topics covered - Functions, Linear Regression and Residuals, Systems of Equations, and others. I will also share tasks that I have created. Bring a computer or tablet.	9 - 12
Thursday	10:30:00 AM	Imperial F	Rebecca	Caison	Strategies for ACT Success	The ACT was updated in 2016. Strategies, including the use of the TI-84, will be shared that will increase student success.	9 - 12
Thursday	10:30:00 AM	Imperial G	Rebecca	Berdeau	Sneaking in Science	Are you looking for ways to integrate more science into your 3rd-5th grade Math/Science block? Come and explore some engaging hands-on activities that can help you develop math and science content knowledge, critical thinking and process skills.	3 - 5
Thursday	10:30:00 AM	Imperial H	Amber	Thomas	Groceries and Inflation!	Why was a Coca Cola cheaper 50 years ago? Come to this interactive lesson to learn why and be gain access to many more lessons!	9 - 12
Thursday	10:30:00 AM	Morehead	Dustin	Best	The Productive Struggle is Real	Explore how to support productive struggle through low-floor, high-ceiling tasks in order to create and nurture a growth-oriented mathematical mindset.	PreK - 5
Thursday	10:30:00 AM	Morehead	Laura	Stockham	The Productive Struggle is Real		
Thursday	10:30:00 AM	Oak A	Arren	Duggan	Examining Critical Conversations	We share an analysis of critical conversations that included differences in perspectives among stakeholders when making particular decisions during the development of the instructional frameworks.	College/ University
Thursday	10:30:00 AM	Oak A	Catherine	Schwartz	Examining Critical Conversations		
Thursday	10:30:00 AM	Oak A	Michele	Stephan	Examining Critical Conversations		
Thursday	10:30:00 AM	Oak B	Teresa	Morton	Can we talk? Motivating students to discuss their "thinking" about math.	Students need to be motivated to explain and justify their "thinking" to not only the teacher but peers. To encourage mathematical discourse, teachers must learn to engage students in dialogue by providing instruction that is relevant, interesting, and at times humorous. This session will provide examples of how to facilitate whole group discussion that encourages students to vocalize their thought processes through effective questioning strategies and prompts. Teachers will leave with ways to create a more student focused environment in order to actively engage pupils in daily instruction and learning.	6 - 12
Thursday	10:30:00 AM	Oak C	Vangela	Eleazer	Mathematical Reasoning and Discourse in Numberless Tasks	Do you want to engage students in meaningful math discourse and deepen conceptual understanding? Come learn about numberless word problems and how to implement them.	3 - 5
Thursday	10:30:00 AM	Oak C	Devin	Warmack	Mathematical Reasoning and Discourse in Numberless Tasks		
Thursday	10:30:00 AM	Pebble Beach	Dorothy	Dalton	X and Division: More Than Just Your Memory	Tired of flash cards? Join us as we help you move your students from additive thinking to multiplicative thinking and from memorization to automaticity. We will analyze how multiplication and division are related and how they are constructed through conceptual tasks, strategies, collaboration and reflection.	3 - 5
Thursday	10:30:00 AM	Pebble Beach	Jerrica	Dula	X and Division: More Than Just Your Memory		
Thursday	10:30:00 AM	Pinehurst	Mikaela	Edge	Bridging the Math 1 Gap Follow Up	Come discuss and learn about the new approaches we have taken to reach our lowest level Math 1 students. Hear our results, discuss and learn how to implement similar practices.	9 - 12
Thursday	10:30:00 AM	Pinehurst	Lynn	DeRosia	Bridging the Math 1 Gap Follow Up		
Thursday	10:30:00 AM	Sandpiper	Stephanie	Bainbridge	Mathcation- Take A Vacation From The Same Old Math Routine!	Help students unlock their potential and get rid of math anxiety by using regular cards and dice to teach fun, educational and differentiated math games.	6 - 8
Thursday	10:30:00 AM	Tanglewood	Maggie	Nesbitt	Can You Crack the Code?	Experience an escape room math style while you work together to find clues, solve puzzles, to crack the code and have fun! Handouts and Google folder will be shared.	6 - 12
Thursday	10:30:00 AM	Tanglewood	Kayla	Chandler	Can You Crack the Code?		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	10:30:00 AM	Tanglewood	Heather	Davis	Can You Crack the Code?		
Thursday	10:30:00 AM	Tidewater A/B	Lori	Triplet	Connecting the Dots - Primary Domino Math Games	Come prepared to play domino games that teach the following: subitizing, numeration and place value, patterns and graphing, operations. Gameboards, student samples and great ideas for whole group or small centers.	PreK - 2
Thursday	10:30:00 AM	Tumbery	Allison	McCulloch	Collaborative Design: Investigating chords with GeoGebra!	Investigating chords with GeoGebra! Engage with the task and consider the ways teachers and teacher educators can support future teachers learning to design technology tasks.	9 - 12
Thursday	10:30:00 AM	Tumbery	Samatha	Fitzgerald	Collaborative Design: Investigating chords with GeoGebra!		
Thursday	10:30:00 AM	Tumbery	Kristen	Fye	Collaborative Design: Investigating chords with GeoGebra!		
Thursday	10:30:00 AM	Tumbery	Courtney	Jones	Collaborative Design: Investigating chords with GeoGebra!		
Thursday	11:30:00 AM	Auditorium I	E.J.	Elgin	Drain the Dread: Changing Mathematical Mindsets	Changing math instruction from robotic processes to one favoring student voice and choice, multiple representations, and making connections.	6 - 8
Thursday	11:30:00 AM	Auditorium I	Open				
Thursday	11:30:00 AM	Auditorium II	Kayonna	Pitchford	Tools for Teachers: Implementation for Instructional Leaders	Come explore the professional development resources that are available to support your teachers with the implementation of the revised standards.	PreK - 5
Thursday	11:30:00 AM	Auditorium II	Carol	Midgett	Tools for Teachers: Implementation for Instructional Leaders		
Thursday	11:30:00 AM	Auditorium III	Kelsey	Anselmi	Whose Mathematics is it anyways? (De)Tracking of Teachers & Students	Ever wonder why "some" math classes or math departments are rather homogenous? We will provide real examples of how we de-tracked students and teachers in our math department to provide access and equity for ALL.	6 - 12
Thursday	11:30:00 AM	Auditorium III	Lauren	Baucom	Whose Mathematics is it anyways? (De)Tracking of Teachers & Students		
Thursday	11:30:00 AM	Auditorium IV	Ellen	Hilgoe	EMPT Successfully Links High School to Post-Secondary Math!	Come see how the NC Early Math Placement Testing Program provides a free and eye-opening assessment of each participant's readiness for college-level math.	9 - 12
Thursday	11:30:00 AM	Blue Ash	Ryan	Dougherty	Great Minds Don't Think Alike - Building Math Fluency	Using a combination of Number Strings and Number Talks we can help students develop a stronger "toolbox" for thinking about numeracy.	PreK - 5
Thursday	11:30:00 AM	Cedar A	Karen	Walker	Stand and Be Heard	Get your students moving to improve their motivation, engagement, and love of math. Walk, skip, or run out with great resources, strategies, and ideas.	6 - 8
Thursday	11:30:00 AM	Cedar A	Jayne	Slease	Stand and Be Heard		
Thursday	11:30:00 AM	Cedar C	Jennifer	White	Crowd Sourcing Curriculum: How Twitter Saved my Teaching	Come to learn about the Math-Twitter-Blog-o-Sphere and see how 280 characters can transform your teaching, support your professional growth, and aid in your curriculum planning.	K - 12
Thursday	11:30:00 AM	Colony C	Shelby	Morge	Math, Media, and the Mathematical Mindset	Explore the impact that media has on your students' perceptions of knowing and doing mathematics and engage in activities to better understand your students' mathematics-related beliefs and strategies to improve them.	K - 12
Thursday	11:30:00 AM	Guilford C	Steve	Leinwand	Keynote K-12		K - 12
Thursday	11:30:00 AM	Oak A	Kadrien	Wilson	Beginning Teachers Who Breed Mathematicians	Exploring Guided Math and Building Accountability	3 - 5
Thursday	11:30:00 AM	Oak A	Brittney	Dennis	Beginning Teachers Who Breed Mathematicians		
Thursday	11:30:00 AM	Oak A	Sabrina	Peacock	Beginning Teachers Who Breed Mathematicians		
Thursday	11:30:00 AM	Oak B	Cydney	Kramer	Emerging Math Interventions & Common Themes for your Classroom	Hear about several emerging and successful math intervention programs, including one based in Charlotte. Learn how to leverage program takeaways and resources for your classroom.	3 - 5
Thursday	11:30:00 AM	Oak B	Emily	Elliott	Emerging Math Interventions & Common Themes for your Classroom		
Thursday	11:30:00 AM	Oak B	Padgett	Sullivan	Emerging Math Interventions & Common Themes for your Classroom		
Thursday	11:30:00 AM	Oak C	Emily	Bryant	Designing Quality Professional Learning Opportunities	This session, designed for mathematics leaders, presents components to consider when designing or choosing professional development opportunities for mathematics teachers and leaders.	K - 12
Thursday	11:30:00 AM	Pinehurst	Lynn	Marcin	A Task-Based Approach to Teaching Math	Come explore and learn to implement task-based lesson design. Participants will leave with examples they can use in the classroom.	3 - 5
Thursday	11:30:00 AM	Tumbery	Madelyn	Colonnese	Mathematical Arguments: Warranted	Join us in discussing the components of a mathematical argument, tasks that can encourage students to write an argument, and ways to assess arguments.	3 - 5
Thursday	12:30:00 PM	Arrowhead A	Stephen	Davis	Reflections on the 2018 AP Calculus Exams	The Chief Reader presents takeaways for teachers gleaned from experiences at this summer's AP Calculus grading.	9 - 12
Thursday	12:30:00 PM	Arrowhead B	Rich	Stuart	Hands-on and Self-Correcting Math Centers	This is your opportunity to play with, and KEEP, hands-on and self-correcting materials that help K-5 students with Numeration, Algebra, Geometry & Measurement, and Probability and Statistics.	PreK - 2
Thursday	12:30:00 PM	Auditorium I	Emily	Bryant	Fostering a Collaborative Statewide Math Community	Come hear exciting updates from the North Carolina Collaborative for Mathematics Learning. In this session, we highlight and elicit feedback on co-designed resources supporting mathematics learning across NC.	K - 12
Thursday	12:30:00 PM	Auditorium I	Jared	Webb	Fostering a Collaborative Statewide Math Community		
Thursday	12:30:00 PM	Auditorium I	Holt	Wilson	Fostering a Collaborative Statewide Math Community		
Thursday	12:30:00 PM	Auditorium I	Paul	Wonsavage	Fostering a Collaborative Statewide Math Community		
Thursday	12:30:00 PM	Auditorium II	Allison	McCulloch	Collaborative Design: Intro to Limits with Desmos!	Intro to Limits with Desmos! Engage with the task and consider the ways teachers and teacher educators can support future teachers learning to design technology tasks.	9 - 12
Thursday	12:30:00 PM	Auditorium II	Samantha	Fitzgerald	Collaborative Design: Intro to Limits with Desmos!		
Thursday	12:30:00 PM	Auditorium II	Courtney	Jones	Collaborative Design: Intro to Limits with Desmos!		
Thursday	12:30:00 PM	Auditorium II	Gayle	Scott	Collaborative Design: Intro to Limits with Desmos!		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	12:30:00 PM	Auditorium III	Robin	Hiatt	Tools For Teachers: 3rd Grade Standards and Resources	The writers of the Tools for Teachers project will discuss resources to support instruction of the 2017 NC Standard Course of Study for Mathematics.	3 - 5
Thursday	12:30:00 PM	Auditorium III	Leanne	Daughtry	Tools For Teachers: 3rd Grade Standards and Resources		
Thursday	12:30:00 PM	Auditorium III	Meg	McKee	Tools For Teachers: 3rd Grade Standards and Resources		
Thursday	12:30:00 PM	Auditorium III	Kaneka	Turner	Tools For Teachers: 3rd Grade Standards and Resources		
Thursday	12:30:00 PM	Auditorium IV	Erin	Hone	Building a CGI Classroom & Why it Matters	This session will showcase the effective practices within Cognitively Guided Instruction. A practicing teacher will share her journey, including resources, dos and don'ts, and lessons learned.	PreK - 5
Thursday	12:30:00 PM	Auditorium IV	Lauren	Barnes	Building a CGI Classroom & Why it Matters		
Thursday	12:30:00 PM	Augusta A	Brittany	Swinson	Two negatives don't always give you a positive!	Students frustrated that a negative times a negative is positive? Join us as we venture into solving operations with rational numbers using varying hands-on methods!	6 - 8
Thursday	12:30:00 PM	Augusta A	Janet	Drueschler	Two negatives don't always give you a positive!		
Thursday	12:30:00 PM	Augusta B	Terry	Rose	Conceptual Development of Estimation: Making Connections Across the Curriculum	Participants will explore methods for developing estimation understanding and use across the elementary curriculum. Hands-on activities include whole number and early rational number sense and operations.	PreK - 5
Thursday	12:30:00 PM	Biltmore A	Martha	Ray	Closing the Gap with High Quality Math Instruction	Using a High Quality Math Instruction definition based on research and alignment to an instructional framework, this session addresses teaching conceptually to close gaps. Experience using a vertical alignment tool, instructional routines, and meaningful tasks with activities from open education resources.	9 - 12
Thursday	12:30:00 PM	Biltmore A	Eugene	Grant	Closing the Gap with High Quality Math Instruction		
Thursday	12:30:00 PM	Biltmore B	Thom	O'Brien	Middle School Math--Success for All with Simulations!	Varying abilities present instructional challenges. Some concepts are easily explained; others require multiple representations. Online simulations help teach challenging concepts with highly visual and interactive scenarios.	6 - 8
Thursday	12:30:00 PM	Blandwood	Holly	McMurray	Building Mathematical Discourse in the Primary Classroom (K-2)	This learn, make, and practice session will focus on number talks, error analysis, and other methods to build mathematical discourse in the K-2 classroom.	PreK - 2
Thursday	12:30:00 PM	Blue Ash	Denise	Schulz	NCDPI K-2 Updates: Assessment Items		PreK - 2
Thursday	12:30:00 PM	Carolina	Ned	McMillan	Five Secrets to Higher Math EOG Scores	Not all strategies for improving math achievement are obvious; those that are not, are valuable and shareable in a hands-on workshop.	PreK - 5
Thursday	12:30:00 PM	Cedar A	Luke	Walsh	(verse, in) - Put the verse first!	Come explore how a "verse" approach, instead of a symbolic approach, to the inverse can be applied to solving equations, transformations, and finding the inverse.	9 - 12
Thursday	12:30:00 PM	Cedar A	Allison	Wilkins	Statistics and Probability in the Elementary Classroom		
Thursday	12:30:00 PM	Cedar B	Stacie	Luckey	Calendar Time	Learn how to use calendar time to reinforce key objectives and enrich your curriculum. View samples in action. Leave with templates differentiated by grade level.	PreK - 2
Thursday	12:30:00 PM	Cedar B	Holly	Averette	Calendar Time		
Thursday	12:30:00 PM	Cedar C	Lesley	Holley	Math! Math! Read All About It!	Participants will be introduced to numerous read-alouds that are written around a mathematical theme. Handouts containing standards-aligned activities and websites will be shared.	3 - 5
Thursday	12:30:00 PM	Cedar C	Donna	Manning	Math! Math! Read All About It!		
Thursday	12:30:00 PM	Colony A	Donna	Boyles	Teaching Fractions for Understanding	Classroom strategies and activities will be provided to help students develop a deep and flexible understanding of fractions that is aligned with the NC Standards.	3 - 5
Thursday	12:30:00 PM	Colony B	Melissa	Manning	Give Me the Facts Please!	Have you had it with timed tests? Do your students get lost in math because they can't add and subtract? Developing automaticity and fluency with single digit addition and subtraction is fundamental. Learn how to get your students to master the facts through a progression of games, strategies, and derived facts and work towards mastery.	PreK - 2
Thursday	12:30:00 PM	Colony C	Felecia	Young	Getting LIT for Math	Come get LIT for math. Learn literacy strategies to implement in the math class to improve math instruction.	6 - 8
Thursday	12:30:00 PM	Imperial A	Josh	Griffin	After the NC Check-In. Using the NC Check-In data reports and suggested instructional strategies.	This presentation will discuss possible instructional strategies teachers can use that are informed by their NC Check-In data reports. Participants will experience firsthand how effective these strategies can be.	K - 12
Thursday	12:30:00 PM	Imperial A	Lisa	Ashe	After the NC Check-In. Using the NC Check-In data reports and suggested instructional strategies.		
Thursday	12:30:00 PM	Imperial A	Joseph	Reaper	After the NC Check-In. Using the NC Check-In data reports and suggested instructional strategies.		
Thursday	12:30:00 PM	Imperial A	Denise	Schulz	After the NC Check-In. Using the NC Check-In data reports and suggested instructional strategies.		
Thursday	12:30:00 PM	Imperial B	Cortney	Gordon	Creating Mathematical Writers	Character, setting, and action aren't just words for literacy anymore! Join us for an action-packed adventure through the creation and execution of purposeful problems!	3 - 5
Thursday	12:30:00 PM	Imperial B	Betsy	Dean	Creating Mathematical Writers		
Thursday	12:30:00 PM	Imperial C	David	Hardt	Hands-on proof concepts: MIRA and other tools	Your students use patty paper, MIRA device, and other tools to generate proof concepts for themselves. Sequence of lesson ideas leads to writing paragraph proofs.	9 - 12
Thursday	12:30:00 PM	Imperial D	Clif	Mims	Keynote- tbd		tbd
Thursday	12:30:00 PM	Imperial E	Susan	Price-Cole	Cultivating Coherence and Connection through Utilizing Mathematics! Tasks in the Elementary Classroom	This session will share how teachers can effectively identify and utilize cognitively demanding tasks in the classroom to develop the mathematical mindsets of students.	3 - 5

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	12:30:00 PM	Imperial F	Rebecca	Caison	Dive Into the TI-84 CE updates	The TI-84CE continues to have significant updates. Come explore the changes including the new piecewise template with an improved method for entering conditional statements. Q & A time will be provided.	6 - 12
Thursday	12:30:00 PM	Imperial G	Julie	Riggins	If Your Students Can Code It, They Know It!	Coding can cultivate creativity, produce problem solving, and inspire hard-to-motivate students. Coding the hailstone sequence is a fun, student-tested, practical extension of high school curriculum.	9 - 12
Thursday	12:30:00 PM	Imperial G	Adam	Pennell	If Your Students Can Code It, They Know It!		
Thursday	12:30:00 PM	Imperial H	Matt	Mcperson	Breaking out of Math with Digital Breakouts	Using digital break out activities to enhance your instruction and engage students.	6 - 12
Thursday	12:30:00 PM	Imperial H	Debbie	Whitehead	Breaking out of Math with Digital Breakouts		
Thursday	12:30:00 PM	Morehead	Travis	Weiland	Considering Variability in the Math Curriculum	Using open ended tasks in this session we will explore different types of variability and how they are measured aligned with the standards.	6 - 12
Thursday	12:30:00 PM	Oak A	Colby	Williams	Guided Math Practices You Can Use Tomorrow	Teachers will have a chance to explore best practices for structuring, planning, differentiation, and implementing guided math practices they can use tomorrow. Teachers will be provided templates, mock lessons, and view hands on materials used to create rigorous K-2 math environments.	PreK - 2
Thursday	12:30:00 PM	Oak A	Brittney	Dennis	Guided Math Practices You Can Use Tomorrow		
Thursday	12:30:00 PM	Oak B	Suzanne	Jordan	How does the work environment affect the overall rating of a job? An investigative approach to covariation and the line of best fit.	Walk away with an investigative task to teach students about covariation and line of best fit using a free online tool and data set about jobs.	9 - 12
Thursday	12:30:00 PM	Oak C	Lauren	Baucom	This is Math in America: Small Tweaks that lead to BIG Change	As math educators, we often leave the controversial conversations to the English and Social Studies departments. But why? Come discuss some small changes that allow students to amplify their voices as citizens and make impacts on their communities.	9 - 12
Thursday	12:30:00 PM	Pebble Beach	Wendy	Lewis	Shuffle that Playlist!	Top tracks fill your favorite playlists! In this workshop, experience how a blended math playlist increases collaboration, choice, accountability, and engagement leaving teaching stress-free!	PreK - 5
Thursday	12:30:00 PM	Pebble Beach	Stephanie	Bellotti	Shuffle that Playlist!		
Thursday	12:30:00 PM	Pebble Beach	Spring	Roseman	Shuffle that Playlist!		
Thursday	12:30:00 PM	Pinehurst	Benjamin	Estes	Mistakes to Understanding: Working with Radian and Degree Measure	Learn about an unusual method of introducing radians in the classroom along with different strategies to get students to think critically through mistakes.	9 - 12
Thursday	12:30:00 PM	Pinehurst	Matthew	Medlin	Mistakes to Understanding: Working with Radian and Degree Measure		
Thursday	12:30:00 PM	Sandpiper	Emily	Myers	Making Algebra Accessible with Algebra Tiles	Got at-risk Algebra students? Learn how to use Algebra Tiles as students progress from multi-digit multiplication to polynomial multiplication to factoring and completing the square.	6 - 12
Thursday	12:30:00 PM	Sandpiper	Doris	Fletcher	Making Algebra Accessible with Algebra Tiles		
Thursday	12:30:00 PM	Tanglewood	Kelly	Reigle	Reaching Students Through Representations	How can teachers use student work to influence instruction? Learn strategies to connect multiple representations of students' mathematical thinking to drive instructional decision making.	PreK - 2
Thursday	12:30:00 PM	Tanglewood	Danielle	Long	Reaching Students Through Representations		
Thursday	12:30:00 PM	Tidwater A/B	Caroline	Smith	...Involve me and I will learn	Come for inspiration and resources on student engagement. Lets work together to get our creative juices flowing and leave inspired to reach our students!	6 - 8
Thursday	12:30:00 PM	Tumbery	Amber	Thomas	The Stock Market Game	What to do with \$100,000? Invest it! Learn tips and tricks to easily implement this simulation in class while your students play the game.	9 - 12
Thursday	1:30:00 PM	Arrowhead B	Rich	Stuart	10 Days to Multiplication Mastery	Learn Multiplication tables in 10 days with fun methods of practice and understanding the power of commutative properties.	3 - 5
Thursday	1:30:00 PM	Auditorium II	Marta	Garcia	Tools for Teachers: Standards and Resources for Grade 5	Do you still have questions about the 2017 NC Standard Course of Study for Mathematics and the resources that are available for support? Come meet the writers of the Tools for Teachers project and find out how to use the NCDPI instructional framework, the revised standards, and other NCDPI resources to help you plan for instruction.	3 - 5
Thursday	1:30:00 PM	Auditorium II	Susan	Copeland	Tools for Teachers: Standards and Resources for Grade 5		
Thursday	1:30:00 PM	Auditorium II	Rebekah	Lonon	Tools for Teachers: Standards and Resources for Grade 5		
Thursday	1:30:00 PM	Auditorium II	Brandi	Newell	Tools for Teachers: Standards and Resources for Grade 5		
Thursday	1:30:00 PM	Auditorium III	Leanne	Daughtry	Planning to Ensure Coherence for Students	We have new math standards, instructional frameworks and an abundance of resources. How do we use these to plan and ensure a coherent math curriculum for our students?	PreK - 5
Thursday	1:30:00 PM	Auditorium IV	Diane	Price	Differentiation in Mathematics	Participants will learn about differentiated instruction strategies in mathematics to meet the needs of their learners to access grade level content.	3 - 5
Thursday	1:30:00 PM	Augusta A	Leigha	Jordan	How to Grow Groups in the Math Classroom	Groups do not grow by accident, we facilitate their growth. Come learn strategies to grow your groups into high performing teams in the math classroom.	6 - 12
Thursday	1:30:00 PM	Augusta A	Jessica	Vernon	How to Grow Groups in the Math Classroom		
Thursday	1:30:00 PM	Biltmore B	Thom	O'Brien	Teach Fractions with the help of Simulations!	Would you rather have 2/3's or 3/5's of a candy bar? Many struggle with fraction sense. Using interactive simulations support mastery for key fraction literacy.	3 - 5
Thursday	1:30:00 PM	Blue Ash	Temple	Walkowiak	AMTE-NC Business Meeting	Join us for the annual fall business meeting of the North Carolina chapter of the Association of Mathematics Teacher Educators (AMTE-NC)	College/ University
Thursday	1:30:00 PM	Cedar A	Britney	Clubb	Building a Coherent Progression of Proof	Come see how my colleagues and I built success criteria and levels of mastery to help guide students through the difficult idea of proof.	9 - 12
Thursday	1:30:00 PM	Cedar C	Mike	Swinson	Going Beyond the Formative	What process do you use to determine if students are prepared for unit assessments? Join us in a discussion of how to use instructional design concepts within your planning to break down objectives for classroom formative assessment.	6 - 12
Thursday	1:30:00 PM	Cedar C	Ryne	Cooper	Going Beyond the Formative		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	1:30:00 PM	Colony C	Jim	deBerjeois	Games and Activities for Numerical Fluency	A fast-paced, highly-motivating workshop designed to help teachers engage all students in the classroom experience. Games and activities help develop fluency and strategic thinking.	6 - 8
Thursday	1:30:00 PM	Guilford C	Julie	McNamara	Keynote K-5		K - 8
Thursday	1:30:00 PM	Oak A	Amy	White	Math Concept + Read-Alouds = Success	Explore ways to incorporate math read-alouds and hands-on activities in your classroom. Inspire students to participate in rich number talks. Resources provided.	3 - 5
Thursday	1:30:00 PM	Oak A	Sarah	Stocks	Math Concept + Read-Alouds = Success		
Thursday	1:30:00 PM	Oak B	Nina	Bailey	Statistical Sparring: Using Media to Elicit Debate	Using video, articles and popular media to foster debate, improve statistical language, and delve into real, messy data while stimulating interest and relevance in statistics.	9 - 12
Thursday	1:30:00 PM	Oak C	Jay	Martin	Engaging Students with Contextual Applications	Do you use contextual applications from careers to motivate students? Come experience lessons that can be integrated into the high school and community college curriculum.	9 - 12
Thursday	1:30:00 PM	Oak C	Carrie	Hoffman	Engaging Students with Contextual Applications		
Thursday	1:30:00 PM	Oak C	Tamara	Ormandy	Engaging Students with Contextual Applications		
Thursday	1:30:00 PM	Pinehurst	Michael	Belcher	A Learning Trajectory Analysis of Open Up	Come see how the highest-rated middle grades mathematics curriculum on EdReports.org, Open Up, looks through the lens of learning trajectories.	6 - 8
Thursday	1:30:00 PM	Pinehurst	Jere	Confrey	A Learning Trajectory Analysis of Open Up		
Thursday	1:30:00 PM	Tumbery	Keri	Reid	The Reality of Money Simulation	Discover how this hands-on, real world activity can be an asset to your school! Designed for grades 8-12, students make financial decisions about paying for housing, transportation and other monthly expenses as they are "transformed" into young adults with jobs and other responsibilities to manage. Students are exposed to various financial learning points such as the value of furthering their education after high school, the limiting effect bad credit has on their lifestyle choices and how "living within their means" allows them to save for their financial future. This interactive session will ignite your passion for financial literacy and experiential learning!	9 - 12
Thursday	2:30:00 PM	Arrowhead A	Brian	Bettis	Something to Talk About	In this session, participants will learn about the importance of using engaging math tasks for students to build a strong foundation of problem solving skills. Participants will be challenged to think about "who" is doing the work in our mathematics classrooms and will learn about the importance of dialogue in our classrooms.	PreK - 5
Thursday	2:30:00 PM	Arrowhead A	Meredith	Jones	Something to Talk About		
Thursday	2:30:00 PM	Arrowhead A	Stephen	Martin	Something to Talk About		
Thursday	2:30:00 PM	Arrowhead A	Tamara	Stamey	Something to Talk About		
Thursday	2:30:00 PM	Arrowhead B	Kayla	Chandler	Math Digital Escape Rooms	Experience a digital escape room math style while working together to find clues, solve puzzles and have fun! Take these ready-made activities back to your classroom on Monday! Bring your computer or iPad to join the fun!	9 - 12
Thursday	2:30:00 PM	Arrowhead B	Heather	Davis	Math Digital Escape Rooms		
Thursday	2:30:00 PM	Auditorium I	Thomas	Coleman	Mathematical Coherence: Area Model for Multiplication	The area model of multiplication is a perfect example of vertical coherence within mathematics learning. Experience how it builds conceptual knowledge throughout grades 3-6.	3 - 5
Thursday	2:30:00 PM	Auditorium II	Dawne	Coker	Tools for Teachers: Kindergarten Standards and Resources	Meet writers of the Tools for Teachers project, and discover resources to support instruction of the 2017 NC Standard Course of Study for Mathematics.	PreK - 2
Thursday	2:30:00 PM	Auditorium II	Lynne	Allen	Tools for Teachers: Kindergarten Standards and Resources		
Thursday	2:30:00 PM	Auditorium II	Leigh	Belford	Tools for Teachers: Kindergarten Standards and Resources		
Thursday	2:30:00 PM	Auditorium II	Carol	Midgett	Tools for Teachers: Kindergarten Standards and Resources		
Thursday	2:30:00 PM	Auditorium III	Josh	Griffin	Online Calculator in NCTest	This presentation will highlight the new calculator embedded within the NCTest platform for the online administrations of the EOGs, EOCs and NCFEs. Participants will also explore free resources available to teachers that can help them implement this calculator in their classroom.	K - 12
Thursday	2:30:00 PM	Auditorium III	Lauren	Baucom	Online Calculator in NCTest		
Thursday	2:30:00 PM	Auditorium IV	Kaycee	Thomas	Exploring Math Through Literature	We will provide book ideas and lessons through children's literature and give examples on how to incorporate into instruction.	PreK - 5
Thursday	2:30:00 PM	Auditorium IV	Erin	Raines	Exploring Math Through Literature		
Thursday	2:30:00 PM	Augusta A	Michael	Bosse	College Student Understanding of Fractions	We will consider recent findings of two research projects regarding college students' understanding of fraction concepts and operations and consider means to remedy incomplete ideas.	K - 12
Thursday	2:30:00 PM	Augusta A	Joe	Boyette	College Student Understanding of Fractions		
Thursday	2:30:00 PM	Augusta A	Ashley	Demarte	College Student Understanding of Fractions		
Thursday	2:30:00 PM	Augusta A	John	Sevier	College Student Understanding of Fractions		
Thursday	2:30:00 PM	Augusta B	Lauren	Stott	Increasing Engagement through Collaboration and Rich-Problem Solving	Are you looking for ways to increase student engagement and collaboration in your math classroom? Are you frustrated with students not participating, while the same students are always coming up with the solutions? This session focuses on fostering deep mathematical thinking in the PreK-5 classroom through collaborative problem-solving, discourse, and engagement in the mathematical practices. Leave this session with a bank of tools and strategies to promote collaboration and engagement with minimal prep time!	PreK - 5
Thursday	2:30:00 PM	Biltmore A	Jessica	Vernon	Supporting English Language Learners with Mathematical Language Routines	Let's examine adaptable language routines that emphasize the use of meaningful and purposeful language to support students in improving their English and disciplinary language.	6 - 12
Thursday	2:30:00 PM	Biltmore A	Leigha	Jordan	Supporting English Language Learners with Mathematical Language Routines		
Thursday	2:30:00 PM	Biltmore B	Aymee	Tiffany	Connections in Co-Teaching	This session will provide easy to implement strategies for co-teaching scenarios that are difficult or ever changing. Presentation will touch on grading, classroom routines and styles of co-teaching.	6 - 12

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	2:30:00 PM	Blandwood	Rob	Leichner	Math Mindsets and Math Standards - Working Together	How do we teach mathematical growth mindsets and NC Math Standards at the same time? Explore strategies for integrating mathematical mindsets daily in your class!	6 - 12
Thursday	2:30:00 PM	Carolina	Ron	Preston	Cultivating Connections with Mathematical Modeling	Students make sense of mathematics by developing mathematical models that solve problems. Rich contexts provide opportunities to develop models from various strands, creating opportunities to make connections.	6 - 8
Thursday	2:30:00 PM	Cedar A	Chadd	McGlone	Learn what it's like to teach around the World	Learn how you can spend a week during your summer with teachers from around the US, teaching in Nepal, Kenya, Guatemala, Ecuador, Belize, and Galapagos.	K - 12
Thursday	2:30:00 PM	Cedar B	Darlene	McDowell	Exploring Math Outdoors	Engaging students in creating a beautiful garden at our school was beneficial to everyone. My students took ownership in this great way to integrate math.	6 - 8
Thursday	2:30:00 PM	Cedar C	Barbara	Soloman	The value of a non-AP Calculus course	Calculus changes the way we look at stars, cells and stocks. When we emphasize ideas and applications, even less mathematically inclined students find Calculus interesting.	9 - 12
Thursday	2:30:00 PM	Colony A	Shirley	Diseler	Teaching Math with the LEGO Brick K-2	This hands-on workshop will allow participants to bring the procedural and conceptual understanding of math together using LEGO bricks to model math concepts for young learners.	PreK - 2
Thursday	2:30:00 PM	Colony C	Randy	Harter	Fascinating 3-D Geometric Figures for Students K-12	Students and teachers of all ages will be fascinated by a great variety of 3-D geometric figures that are visually interesting and mathematically challenging.	K - 12
Thursday	2:30:00 PM	Imperial A	Amy	Hewitt	Selecting and Sequencing Student Strategies for Whole-Class Discussions	How do you select and sequence strategies for whole-class discussions? Using video and written work, we will explore criteria teachers can use for these practices.	3 - 5
Thursday	2:30:00 PM	Imperial A	Vicki	Jacobs	Selecting and Sequencing Student Strategies for Whole-Class Discussions		
Thursday	2:30:00 PM	Imperial B	Heather	Thomas	Uncovering & Disbarring Misconceptions in Grades 6-8	This workshop will provide participants opportunities to uncover what the most common misconceptions are for students in mathematics grades 6-8.	6 - 8
Thursday	2:30:00 PM	Imperial B	Nicole	Beck	Uncovering & Disbarring Misconceptions in Grades 6-8		
Thursday	2:30:00 PM	Imperial C	Megan	Lawson	Math Madness!	Are you at a loss at how to conceptualize math learning in your classroom? Come and learn how to use the new frameworks, Tools 4 Teachers, and other conceptually based resources to enhance and energize your math block!	PreK - 2
Thursday	2:30:00 PM	Imperial E	Jametra	Hinton	ABCs of Effective Teaching	Two veteran Math teachers will review practical tips to help teachers maintain balance and rigor in their classroom. Session will be geared toward Beginning and Lateral Entry teachers, but all are welcome.	9 - 12
Thursday	2:30:00 PM	Imperial E	Mariama	Moody	ABCs of Effective Teaching		
Thursday	2:30:00 PM	Imperial F	Mallory	Hill	Math and Reading Go Together Like PB&J	Discover how to use literacy strategies and children's books to increase your students' mathematical understanding! Your mathematicians and your readers will benefit from this session.	PreK - 5
Thursday	2:30:00 PM	Imperial F	Rebekah	Lonon	Math and Reading Go Together Like PB&J		
Thursday	2:30:00 PM	Imperial G	Karen	McPherson	Modeling Geometry in Math 3	Explore a series of lessons designed to address the G-GMD and G-MG standards in Math 3. This session will include access to all of the lessons, resources, and assessments.	9 - 12
Thursday	2:30:00 PM	Imperial H	Amber	Thomas	Your Credit Score Cost You Money?	How does your credit score cost you money? Join this interactive session, find out why and gain access to hundreds of lessons at no cost.	9 - 12
Thursday	2:30:00 PM	Morehead	Deanna	Wiles	Tools for Teachers: Standards and Resources for Grade 4	Do you still have questions about the 2017 NC Standard Course of Study for Mathematics and the resources available for support? Come meet the writers of the Tools for Teachers project and find out how to use the NCDPI instructional framework, the revised standards, and other resources to help you plan for instruction.	3 - 5
Thursday	2:30:00 PM	Morehead	Ana	Floyd	Tools for Teachers: Standards and Resources for Grade 4		
Thursday	2:30:00 PM	Oak A	Anna	Hughes	Quick and Easy Number Talks	In this session, we will provide you with examples and resources for number talks for grades 3-5. We will demonstrate what number talks should look like and where you can find resources to make them an essential, 8-10 minute part of your math block!!	3 - 5
Thursday	2:30:00 PM	Oak A	Elizabeth	Tucker	Quick and Easy Number Talks		
Thursday	2:30:00 PM	Oak B	Stephanie	Morgan	Global Education in a Secondary Math Classroom	Come see tips and ideas for integrating global education into a 9-12 math class, including lesson ideas, projects, and information about global ed PD & NC Global Educator Digital Badge.	9 - 12
Thursday	2:30:00 PM	Oak C	Sarah	Marsh	Projects Galore in High School Math!	Ever wonder how roller coasters incorporate math? Or how cities can be created using angle relationships? Come see how these projects and others can be incorporated into Math 2, Pre-Calculus, and Calculus. Handouts will be shared.	9 - 12
Thursday	2:30:00 PM	Pebble Beach	Jenny	Ainslie	Unlocking the Power of the Base 10 System	Learn the one key change you need to make to enable students to think flexibly and reason using the structure of our number system!	PreK - 5
Thursday	2:30:00 PM	Pebble Beach	Stephanie	Lachmann	Unlocking the Power of the Base 10 System		
Thursday	2:30:00 PM	Pinehurst	Drew	Corley	Amplify Fractions	Amplify Fractions: the supplemental program laser-focused on helping students better understand fractions through interactive, animated stories and personalized feedback from a patented digital tutor.	3 - 5
Thursday	2:30:00 PM	Sandpiper	Stephanie	Bainbridge	All Hands On Deck	Who knew playing with cards could be this much fun? Come prepared to play easily differentiated games that build concrete math skills and student success.	3 - 5
Thursday	2:30:00 PM	Tanglewood	Joy	McCormick	Planning for Effective Instruction	Explore a variety of strategies that make efficient use of instructional time, promote differentiated instruction, and actively engage students while developing a growth mindset.	6 - 12
Thursday	2:30:00 PM	Tanglewood	Renee	Gibbs	Planning for Effective Instruction		
Thursday	2:30:00 PM	Tidewater A/B	Eric M.	O'Brien	Multiple Ways to Multiply	Engage students in computation that frees them of traditional methods. You'll ask, "Why didn't I learn like this?"	6 - 8
Thursday	2:30:00 PM	Tumberry	Nicole	Morgan	So many needs? So little time?	Practical steps so no student is left behind. Come join us for a discussion on diving into data to form purposeful and fluid instructional groups.	3 - 5
Thursday	2:30:00 PM	Tumberry	Lauren	Dobbin	So many needs? So little time?		
Thursday	2:30:00 PM	Tumberry	Trisha	Hill	So many needs? So little time?		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Thursday	2:30:00 PM	Tumbery	Madison	Hipp	So many needs? So little time?		
Thursday	3:30:00 PM	Auditorium II	Katie	Mawhinney	From Modeling to Algorithms: Supporting Teachers in Building Students' Understanding of Operations with Rational Numbers, 4-8	How should teachers introduce operations with fractions and decimals? We will highlight models for arithmetic with rational numbers, supporting students in making sense of operations.	3 - 5
Thursday	3:30:00 PM	Auditorium II	Kayonna	Pitchford	From Modeling to Algorithms: Supporting Teachers in Building Students' Understanding of Operations with Rational Numbers, 4-8		
Thursday	3:30:00 PM	Auditorium III	Meredith	Stanley	The Fundamentals of Fractions	We will consider the meaning of fractions through representation and equal sharing problems. Let's help students access the big ideas about fractions in order to reduce anxiety and increase conceptual understanding!	3 - 5
Thursday	3:30:00 PM	Auditorium III	Marta	Garcia	The Fundamentals of Fractions		
Thursday	3:30:00 PM	Auditorium IV	Renee	Synan	MASH- "mansion, apartment, shack or house"; A middle school game of life's big choices!	A project that uses student interests to choose a career, salary, home and vehicle. An authentic way to teach percentages and simple interest.	6 - 8
Thursday	3:30:00 PM	Auditorium IV	Jason	Holland	MASH- "mansion, apartment, shack or house"; A middle school game of life's big choices!		
Thursday	3:30:00 PM	Biltmore B	Aymee	Tiffany	Inclusion Institute	Fast-paced, round table discussions facilitated by a teacher who has been on both sides of the co-teaching relationship. Discussion will revolve around strategies to improve co-teaching.	6 - 12
Thursday	3:30:00 PM	Blue Ash	Temple	Walkowiak	Ideas from Future Teachers of NC: A Poster Session	Visit this poster session to see innovative instructional ideas of future NC teachers!	K - 12
Thursday	3:30:00 PM	Cedar A	William	McGowan	Using Data to Promote Discourse	Your students just completed a test, now what? We share productive ways of engaging students in discussions of data, with examples from actual classrooms.	6 - 8
Thursday	3:30:00 PM	Cedar A	Meetal	Shah	Using Data to Promote Discourse		
Thursday	3:30:00 PM	Cedar B	Jasmin	Nabors	The Equals Sign and its Meaning	In this workshop we will discuss how to develop students' understanding of the equals sign and address their common misconceptions through specific classroom activities.	3 - 5
Thursday	3:30:00 PM	Cedar C	Ryan	Dougherty	The Power of Virtual Manipulatives	Are virtual manipulatives as good as the real thing? Would you like to have an unlimited supply of manipulatives that your kids can use anywhere? Come learn the answers to these and many other questions about virtual manipulatives.	PreK - 5
Thursday	3:30:00 PM	Colony C	Randy	Harter	The American Mathematics Competitions: Equal Access in NC?	Your students deserve the opportunity and challenge of the American Mathematics Competitions. Come and learn how you can do more for students in your community.	6 - 12
Thursday	3:30:00 PM	Guilford C	NCCTM	NCCTM	Set up for awards		K-12
Thursday	3:30:00 PM	Imperial D	Steve	Leinwand	Keynote K-12		
Thursday	3:30:00 PM	Oak A	Rachel	Tohill	Building Mathematical Mindsets as a Team	Learn about one school's experience in collaborating as a team to empower students as mathematicians as raise student achievement in math.	3 - 5
Thursday	3:30:00 PM	Oak A	Emily	McGinnis	Building Mathematical Mindsets as a Team		
Thursday	3:30:00 PM	Oak C	Ashley	Loftis	#STEM#LikeAGirl	We'll explore reasons why girls stop pursuing higher level math, as well as, strategies for encouraging girls to consider math as a viable path.	9 - 12
Thursday	3:30:00 PM	Pinehurst	Ken	Collins	2018 A.P. Calculus Exam	We will discuss the questions and grading rubrics for the exam and how to better prepare your students for the next A.P. Calculus Exam.	9 - 12
Thursday	3:30:00 PM	Tumbery	Ethan	Smith	Pre-calculus in a Nutshell: From the NCCCS Perspective	A discussion on what pre-calculus looks like in high school vs. community college.	9 - 12
Friday	8:30:00 AM	Arrowhead A	Angela	Kern	What's the Problem?	What's the Problem? What's the problem with solving word problems? This presentation shares information regarding a NCCTM Grant that allowed pre-service teachers to work with a fourth grade to help figure out the dilemma!	3 - 5
Friday	8:30:00 AM	Arrowhead A	Elizabeth	Laney	What's the Problem?		
Friday	8:30:00 AM	Arrowhead B	Premkumar	Pugalethi	New Homes Coming Soon! An Engineering and Mathematics PBL	Participants will gain an understanding of systems thinking based mathematics Project Based Learning (PBL) and also strategies to incorporate them in their middle grade classroom settings.	6 - 8
Friday	8:30:00 AM	Arrowhead B	Alexis	James	New Homes Coming Soon! An Engineering and Mathematics PBL		
Friday	8:30:00 AM	Arrowhead B	David	Pugalee	New Homes Coming Soon! An Engineering and Mathematics PBL		
Friday	8:30:00 AM	Arrowhead B	Shelley	Widenhouse	New Homes Coming Soon! An Engineering and Mathematics PBL		
Friday	8:30:00 AM	Auditorium I	Julie	Bacak	Learning Centers for Middle Grades	Streamline the planning process for learning centers by establishing simple routines that can help you maximize small group time with your students.	6 - 8
Friday	8:30:00 AM	Auditorium I	Catherine	Neely	Learning Centers for Middle Grades		
Friday	8:30:00 AM	Auditorium II	Sandra	Linder	K-5 Keynote on STEM		PreK - 5
Friday	8:30:00 AM	Auditorium III	Denise	Schulz	NCDEPI: 3-5 Updates		
Friday	8:30:00 AM	Auditorium IV	Allison	Kiser	Guided Math	Come experience what Guided Math is all about! Learn how to effectively use small-group instruction to engage learners, differentiate for students based on data, and maximize the impact of your math teaching.	PreK - 5
Friday	8:30:00 AM	Augusta A	Susan	Howard	College Math	Let's talk about the hard and soft skills high school students need in preparation for college mathematics.	9 - 12
Friday	8:30:00 AM	Augusta B	Montana	Smithey	Creativity through Making in Mathematics	Looking for ways to bring creativity and enjoyment of mathematics back into your classroom? Engage in student-centered math stations incorporating "making" and leave with resources!	PreK - 5
Friday	8:30:00 AM	Biltmore A	John	Pritchett	That Dreaded Parent Conference Ins & Outs	An insight for beginning teachers into both sides of a parent conference, whether it's for academics or behavior.	6 - 12
Friday	8:30:00 AM	Biltmore B	Robert	Kimball	Making Connections: Numeracy & NC History	Motivate math using interesting stories from NC's rich history. Hear about NC's gold rush, the war with Georgia, the state of Franklin, and more.	6 - 8

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Friday	8:30:00 AM	Biltmore B	Amy	Scrinzi	Subitizing- Moving Beyond Counting	Help your students move beyond object counting towards counting on and learning combinations of numbers through the use of perceptual and conceptual subitizing! Participants will discuss the purpose of subitizing, explore different types of patterned sets, and leave with strategies and ideas that are aligned to the NEW NC Standard Course of Study Objectives.	PreK - 2
Friday	8:30:00 AM	Blandwood	Chris	Murcko	Learning Goals: Roadmaps to Equity and Success	Explore why mathematical learning goals for students need to move beyond daily objectives and be firmly rooted in learning progressions, supporting access for all students.	6 - 8
Friday	8:30:00 AM	Blandwood	Steven	LaFemina	Learning Goals: Roadmaps to Equity and Success		
Friday	8:30:00 AM	Blue Ash	Sandy	Finocchi	Deepening Conceptual Understanding and Making Connections Across Grade Levels (6-8)	Experience a math classroom where learners get excited about solving problems, engage in instructional routines that promote deep thinking and conceptual understanding, and make connections with the world around them and prior learning. You will walk away having experienced specific instructional practices that you can implement in your classroom tomorrow! You will also receive a math classroom needs assessment tool that can help you assess your current teaching practices, identifying strengths and areas for improvement.	6 - 8
Friday	8:30:00 AM	Carolina	Joanne	Whitley	Customizing Math Instruction to Meet the Needs of All Learners	Participants examine effective ways to build engaging lessons that include engaging activities, so all learners including EC and ELL students are exposed to rigorous instruction.	9 - 12
Friday	8:30:00 AM	Carolina	Joi	Strayhom	Customizing Math Instruction to Meet the Needs of All Learners		
Friday	8:30:00 AM	Cedar B	Winnie	Hunter	Cultivating Can Do Math Attitudes in Kindergarten	Let us show you how Kindergarteners and first graders can talk and write about math in ways we didn't think were possible, while improving scores!	PreK - 2
Friday	8:30:00 AM	Cedar B	Heather	Nardone	Cultivating Can Do Math Attitudes in Kindergarten		
Friday	8:30:00 AM	Cedar C	Danielle	Flores	Web 2.0 Teaching Tools	There are tons of web 2.0 tools available for teachers and students but how can we incorporate them in the classroom? In this presentation, web 2.0 tools will be highlighted and demonstrated for how to use in the classroom. Teachers will see how to use in their teaching and how students can incorporate them into projects and other assignments.	6 - 12
Friday	8:30:00 AM	Colony A	Fernando	Schiefelbein	Round-Table: Collaborating Making a Statistics Term Project Successful	Participants will share ideas on how to structure a large-scale, student-led, Statistics term project. We encourage sharing success stories and hurdles you're still trying to overcome!	College/ University
Friday	8:30:00 AM	Colony B	Darlene	Williford	Making Algebra Child's Play	Learn how a visual and kinesthetic approach to teaching algebraic concepts enables students to grasp "sophisticated" looking concepts of linear algebra. Get a taste of the new Hands-On Equations Fractions.	6 - 8
Friday	8:30:00 AM	Colony C	Candice	Brucke	Connecting Children's Literature w/Middle Grades Mathematics	Presenter will share 100+ popular children's books to use in middle grades math classes. Free lesson plans/activities, book list, rubrics, prizes and lots of giggles.	6 - 8
Friday	8:30:00 AM	Guilford C	Kathy	Richardson	Keynote K-5		PreK - 5
Friday	8:30:00 AM	Imperial A	Ruth	Harbin Miles	Fact Fluency and Effective Practice	This session focuses on developing basic fact proficiency by teaching the understanding of the operations, teaching computation strategies, and practicing with fun games for all elementary grades.	3 - 5
Friday	8:30:00 AM	Imperial B	Tomika	Altman-Lewis	Let Go of My LEGOs: Using LEGOs to Teach the Standards	LEGOs are more than just building toys. They can be used to enhance a student's confidence, vocabulary, comprehension, mathematical understanding, critical thinking skills, and more. Join me in this hands-on session to learn how to integrate LEGOs and STEM to teach the standards. Grant-funding opportunities will also be shared.	PreK - 5
Friday	8:30:00 AM	Imperial C	Jane	Damaska	Vertical Alignment Across the Grades with TI-Nspire	Experience TI-Nspire activities starting at the middle grade level and increasing in mathematical intensity through high school. You will receive several TI-Nspire classroom activities.	6 - 8
Friday	8:30:00 AM	Imperial D	Susan	O'Connell	Keynote PreK-2		PreK - 2
Friday	8:30:00 AM	Imperial E	Ruth	Casey	Teaching Math with a TI-84: Beyond the Basics	Come learn how images, piece-wise functions, graph databases, & APPS can enhance student understanding. See how TI-Connect™CE can be used to increase engagement and communication.	9 - 12
Friday	8:30:00 AM	Imperial E	Margaret	Bambrick	Teaching Math with a TI-84: Beyond the Basics		
Friday	8:30:00 AM	Imperial F	Shirley	Disseler	Strategies and Activities for the Math Classroom	Participants will use manipulative materials and activities designed for the K-6 classroom. Handouts will be provided.	PreK - 5
Friday	8:30:00 AM	Imperial G	Adam	Pennell	Crashing on Purpose	Come have fun using the TI-Innovator Rover to explore solving systems of equations and leave with an activity whose "fiery" crash leads to student learning.	9 - 12
Friday	8:30:00 AM	Imperial G	Julie	Riggins	Crashing on Purpose		
Friday	8:30:00 AM	Morehead	Amber	Thomas	What's My Interest?	How can your money work for you? Join this interactive session, learn all about interest and gain access to hundreds of lessons at no cost.	3 - 5
Friday	8:30:00 AM	Morehead	Kathy	Jaqua	Making Music from Fractions - Pentatonic Pan Pipes	Come use fraction operations to develop the pentatonic scale described by Pythagoras, make pan pipes from drinking straws, and learn to play some simple tunes.	3 - 5
Friday	8:30:00 AM	Oak A	June	Blackwell	Humorous Algebra - The MVP Transition Years	Lesson Ideas, activities, songs, technology suggestions, project ideas, strategies, and techniques to implement into the MVP transition for Math 1, 2, and 3.	9 - 12
Friday	8:30:00 AM	Oak B	Le'Vada	Gray	Shake, Rattle, and Roll: Using Games in Math Workshop	Mathematics teachers will explore games that can be used to promote students' mathematical reasoning and discourse during Math Workshop.	3 - 5
Friday	8:30:00 AM	Oak B	James	Daniels	Shake, Rattle, and Roll: Using Games in Math Workshop		
Friday	8:30:00 AM	Oak C	Deb	Butler	It's in the cards	The development and use of notecards and other study tools to keep students engaged in today's learning environment. No social media required!	9 - 12
Friday	8:30:00 AM	Pebble Beach	Jim	Franklin	Number Line to 10,000,000 and Other Math Manipulatives	Join us for a demonstration by Jim Franklin, teacher of special education from Elm Street Elementary in Rome, GA, who invented a number line up to 10,000,000 and other math manipulatives that address the standards of fractions, decimals, elapsed time, weight, and money, including students with visual impairments.	3 - 5
Friday	8:30:00 AM	Pinehurst	Seth	McElvaney	The Extra-Sensory Perception Gap	Your students can't read your mind! Some lessons in communicating effectively and getting your students to learn the language of mathematics.	9 - 12
Friday	8:30:00 AM	Sandpiper	Stephanie	Bainbridge	Rolling On Fact Fluency	Rock and roll! Come ready to play dice games that can be used to teach basic facts, operations, number sense and place value.	3 - 5

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Friday	8:30:00 AM	Tanglewood	Alisan	Royster	Roundtable Discussion & Networking for Math Leaders	Lead Teachers, Coaches, and Math Specialists – share ideas and resources, ask questions, and make connections. Give input on discussion topics by completing this survey: http://bit.ly/RoundtableNCCTM	K - 12
Friday	8:30:00 AM	Tidewater A/B	Sara	Moore	Multiple Representations in Elementary Math	Varied representations are essential to deep learning. Explore multiple representations appropriate to elementary math and strategies for extending and connecting those representations through the grades.	PreK - 5
Friday	8:30:00 AM	Tumbery	Staci	Lyon	Engage. Elevate. Enhance. It's as Easy as 1-2-3!	Looking for engaging and mobile-friendly resources? Come see a demonstration of high-quality, interactive resources that promote student autonomy and support graphing, solving, and statistical literacy.	6 - 12
Friday	9:30:00 AM	Arrowhead A	Sharareh (Sh)	Nikbakht	MATH Walk Activities at AppState	This presentation will provide details on a set of activities that are created in the Department of Mathematical Sciences at ASU based on the landmarks, natural resources, buildings, and statutes located on the university campus.	6 - 12
Friday	9:30:00 AM	Auditorium I	Amy	Scrinzi	Getting the Facts about Fluency	Looking for concrete research-based strategies for building basic fact fluency that are developmentally appropriate for our youngest students? Come ready to discuss the steps for building fact fluency and leave with exciting and meaningful activities to use with your K-2 students.	PreK - 2
Friday	9:30:00 AM	Auditorium III	Lisa	Ashe	NC DPI: 6-8 Updates		
Friday	9:30:00 AM	Auditorium IV	NC2ML Keyn	NC2ML Keyn	keynote tbd		K-12
Friday	9:30:00 AM	Augusta A	Forrest	Hinton	A Precalculus/Calculus Teacher Reads the Newspaper	In this session, I will share some ways that I use articles and graphs from newspapers to create problems and design activities for my precalculus and calculus students. Current events and math are inseparable!	9 - 12
Friday	9:30:00 AM	Biltmore A	John	Pritchett	Watch your language!	Discuss examples of math concepts and processes where choice of language can contribute to a need to "un-learn", or to a richer understanding and support of new learning.	6 - 12
Friday	9:30:00 AM	Blue Ash	Sandy	Finocchi	Deepening Conceptual Understanding and Making Connections Across Grade Levels (9-12)	Experience a math classroom where learners get excited about solving problems, engage in instructional routines that promote deep thinking and conceptual understanding, and make connections with the world around them and prior learning. You will walk away having experienced specific instructional practices that you can implement in your classroom tomorrow! You will also receive a math classroom needs assessment tool that can help you assess your current teaching practices, identifying strengths and areas for improvement.	9 - 12
Friday	9:30:00 AM	Cedar A	John	Sevier	Problem Posing in a Developmental Math Classroom	Problem posing engages students with word problems were lack of interests persists. Utilizing the student interest provides the bridge to engage with problem solving.	College/ University
Friday	9:30:00 AM	Cedar A	Micheal	Bosse	Problem Posing in a Developmental Math Classroom		
Friday	9:30:00 AM	Cedar B	Tanya	Hudson	An Afrocentric Approach to Elementary Mathematics	Discover culturally relevant pedagogy and teaching strategies for third-fifth grade mathematics that address the rationality of instructing students from an Afrocentric perspective.	3 - 5
Friday	9:30:00 AM	Cedar B	Dawne	Coker	An Afrocentric Approach to Elementary Mathematics		
Friday	9:30:00 AM	Cedar C	Amanda	Casto	Anchor & Bridges: Teaching Math with Contexts	Many teachers use real-world problems to make math engaging. But that's only half the story! Learn how real-world problems strengthen students' conceptual understanding.	6 - 8
Friday	9:30:00 AM	Cedar C	Rukiye	Ayan	Anchor & Bridges: Teaching Math with Contexts		
Friday	9:30:00 AM	Cedar C	Luke	Reinke	Anchor & Bridges: Teaching Math with Contexts		
Friday	9:30:00 AM	Cedar C	Michelle	Stephan	Anchor & Bridges: Teaching Math with Contexts		
Friday	9:30:00 AM	Colony C	Candice	Brucke	Total Participation Techniques: Making Every Child an Active Learner	Participants will learn how to implement field-tested techniques they can use on the spot with Hold-Up cards, with movement, and to guide note-taking and concept analysis.	6 - 8
Friday	9:30:00 AM	Oak C	Katy	Ham	Taking the "Problem" Out of Word Problems	This presentation explores why problem solving seems problematic for our students. We will offer innovative ways to approach this issue focusing on whole group instruction.	PreK - 5
Friday	9:30:00 AM	Oak C	Angela	Howell	Taking the "Problem" Out of Word Problems		
Friday	9:30:00 AM	Pinehurst	Donna	Manning	Unlocking Literature in the K-2 Mathematics Classroom	Learn how to use Children's Literature to enhance your math instruction while engaging students in their learning. Add relevance to your instruction by reading a book!	PreK - 2
Friday	9:30:00 AM	Tumbery	Staci	Lyon	Curriculum Pathways @ Crio: Imagine. Create. Inspire	Design, create, and share lessons that inspire students' natural curiosity! Using Crio's drag-and-drop editor, transform your static, paper-based lessons into interactive, online resources. For free!	K - 12
Friday	10:30:00 AM	Arrowhead A	Amber	Thomas	The Stock Market Game	What to do with \$100,000? Invest it! Learn tips and tricks to easily implement this simulation in class while your students play the game.	6 - 8
Friday	10:30:00 AM	Arrowhead B	Dorothy	Sulock	Singapore Math for Beginners	Elementary concepts of Singapore math and how to access materials to allow students to practice this visual approach to arithmetic.	3 - 5
Friday	10:30:00 AM	Auditorium I	Pamela	Shue	Early Math in North Carolina	The session will discuss the Early Math Education work that is happening at North Carolina's Department of Public Instruction within the Early Education office (Pre-Kindergarten - 3rd grade). The presentation will provide an up-to-date look at where we are, our vision, and an opportunity for audience members to ask questions and provide feedback to the state.	PreK - 2
Friday	10:30:00 AM	Auditorium II	Valerie	Faulkner	Unitizing: The Key to Understanding Numbers	This session will include tasks and discussion about how to support students' work with place value and understanding of number with a focus on unitizing 10 ones as a group of ten.	PreK - 2
Friday	10:30:00 AM	Auditorium III	Christine	Blystad	Modeling Addition and Subtraction of Integers	The NC revised standards include modeling addition and subtraction of integers in 6th grade. Participants will explore the use of various models to engage students with these concepts.	6 - 8
Friday	10:30:00 AM	Auditorium III	Robin	Barbour	Modeling Addition and Subtraction of Integers		
Friday	10:30:00 AM	Augusta A	Philip	Rash	Beyond Riemann Sums & Euler's Method	For Calculus teachers, what's "better" than Riemann & Euler? In this session we learn other techniques for numeric integration and the error associated with those methods.	9 - 12
Friday	10:30:00 AM	Augusta B	Erica	Slate Young	Developing Understanding of Ratios & Proportions	Participants will learn about principles underlying the development of proportional reasoning and engage in hands-on activities designed to promote student understanding of this important topic.	6 - 8
Friday	10:30:00 AM	Biltmore A	Temple	Walkowiak	PLT Meetings in Preservice Teacher Preparation	Learn how we include PLT meetings in a field-based, lesson implementation project for preservice teachers. The meetings are integral in planning and post-lesson analyses.	College/ University

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Friday	10:30:00 AM	Biltmore A	Amanda	Gosek	PLT Meetings in Preservice Teacher Preparation		
Friday	10:30:00 AM	Biltmore B	Denise	Bauer	An Approach to Math Readiness for STEM Programs	Course and placement modifications, the success of the program, and how institutions and high schools can incorporate a similar model will be discussed and shared.	College/ University
Friday	10:30:00 AM	Biltmore B	Kathleen	Fick	An Approach to Math Readiness for STEM Programs		
Friday	10:30:00 AM	Biltmore B	Jie	Zhou			
Friday	10:30:00 AM	Blandwood	Kristi	Martin	Make the Ambiguous Case Unambiguous	A classroom activity that can be done with or without technology to explore the ambiguous case of the Law of Sines.	9 - 12
Friday	10:30:00 AM	Blue Ash	David	Hardt	Number Talks in High School: Gateway to Discourse	Experience Number Talks at the high school level. Learn how to get students of any strength talking, and see how the talk extends into your lessons...	6 - 12
Friday	10:30:00 AM	Carolina	Joanne	Whitley	Using Problem Based Tasks to Build Conceptual Understanding	Participants explore how to use rich problem-based tasks to build engaging lessons with effective online resources, Desmos, scaffolded practice, guided practice and formative assessments.	9 - 12
Friday	10:30:00 AM	Cedar A	Meetal	Shah	Knowing how to help your students with geometric similarity	Frustrated with students' misconceptions around problems involving scale drawings? Learn how to help them by incorporating research-based ideas of congruence and similarity in your instruction.	6 - 8
Friday	10:30:00 AM	Cedar B	Amy	Martin	Statistics and Probability Palooza	Probability and Statistics Activities will be presented for use in the Math 1 to AP Statistics classroom. Handouts will be provided.	9 - 12
Friday	10:30:00 AM	Cedar C	Marie	Foxworth	Picture This: Using Photographs to Show Mastery	Learn how students can bring math to life with photo technology to demonstrate real world application and authentic problem solving of mathematical standards.	3 - 5
Friday	10:30:00 AM	Colony A	Carolyn	Frye	FADS for Math - Facilitating Academic Discourse Strategies for Math	Connect the dots between language and math. Join us as we engage in specific strategies, with appropriate scaffolds, to facilitate mathematical discourse for ALL students!	K - 12
Friday	10:30:00 AM	Colony B	Logan	Breedlove	Math for Makers	This workshop introduces teachers to maker projects that allow students to be hands-on while meeting the standards. Experience new technology and turn "junk" into math tools!	PreK - 5
Friday	10:30:00 AM	Colony C	Open				
Friday	10:30:00 AM	Imperial A	Ruth	Harbin Miles	Walk the Number Line for Research Based Results	Elementary learners need a number line for powerful math concepts like skip counting, adding on, alternative algorithms for regrouping, making change, elapsed time, rounding, factoring, and fractions. You will experience unique ideas with number lines and be amazed how you can immediately use them with all students including struggling learners.	3 - 5
Friday	10:30:00 AM	Imperial B	Jaime	Gilas	Building Conceptual Understanding through Algebra Tiles	Learn strategies for engaging students using Algebra Tiles. Operations with integers, solving equations, polynomials, and more. Leave with tools to implement Algebra Tiles in your classroom.	6 - 8
Friday	10:30:00 AM	Imperial B	Elwanda	McLaurin	Building Conceptual Understanding through Algebra Tiles		
Friday	10:30:00 AM	Imperial C	Jane	Damaske	Understanding Teaching Strategies	Bring rich algebra, geometry, and statistics lessons to life with TI-Nspire™. Experience lessons as a student, and learn how to implement them as the teacher.	9 - 12
Friday	10:30:00 AM	Imperial D	Josh	Griffin	NCDPI Testing Updates	NC Testing Updates	K - 12
Friday	10:30:00 AM	Imperial E	Margaret	Bambrick	What's Your Image? Transformations in the Coordinate Plane	Come and explore strategies to engage students in generalizing the pattern of sets of ordered pairs under transformations. Transformations may include translations, reflections, and rotations.	6 - 8
Friday	10:30:00 AM	Imperial E	Ruth	Casey	What's Your Image? Transformations in the Coordinate Plane		
Friday	10:30:00 AM	Imperial F	Kwaku	Adu-Gyamfi	Digital Technology: Activities and Ideas for your Math Classroom	Come learn about different tool uses for digital technology in your mathematics classroom. Sense making activities, lesson ideas and technology integration frameworks will be provided.	6 - 12
Friday	10:30:00 AM	Imperial F	Nicolette	Aloia	Digital Technology: Activities and Ideas for your Math Classroom		
Friday	10:30:00 AM	Imperial F	Michael	Bier	Digital Technology: Activities and Ideas for your Math Classroom		
Friday	10:30:00 AM	Imperial G	Krista	Holstein	What's the Problem? Designing Cognitively Demanding Tasks	Educators recognize the importance of task design, but there is variety in the cognitive demand level of tasks. Participants will consider different versions of the same task and investigate the effects of lesson modifications.	9 - 12
Friday	10:30:00 AM	Imperial H	Shirley	Smith	Math/Science Integration for Earth's Sake	Engage in hands-on activities that applies middle school math skills to broadening awareness on environmental challenges and other global issues.	6 - 8
Friday	10:30:00 AM	Morehead	Jeff	Steckroth	The "Why" Behind the Slip-Slide Factoring Method	Factoring trinomials with "a" (insert not equal symbol) 1 is easy using Slip-Slide, but can you justify the method? See how transformational factoring of quadratic functions is the key.	9 - 12
Friday	10:30:00 AM	Oak A	Marla	Chaney	Dive into Data	Explore the 4 components of data-driven instruction essential to maximizing student growth. Leave with samples of each component differentiated by grade level!	3 - 5
Friday	10:30:00 AM	Oak A	Holly	Averette	Dive into Data		
Friday	10:30:00 AM	Oak B	Peter	Vajda	Do Your Classroom Management Strategies Add Up?	Learn "8:00 Monday morning" research-based strategies of a fair and simple classroom management system that will eliminate unwanted behaviors by 70% or more. Learn the essential steps of teaching to expected behaviors and discover the benefits and the importance of positive interactions with your students.	9 - 12
Friday	10:30:00 AM	Oak C	Maria	Hernandez	Math and Music: Sharing Beautiful Connections	Emphasizing the connections between math and music, we will share activities that connect geometric transformations, music composition and contra dance. No music background is required.	6 - 12
Friday	10:30:00 AM	Oak C	Phillip	Riggs	Math and Music: Sharing Beautiful Connections		
Friday	10:30:00 AM	Pebble Beach	Eric M.	O'Brien	Improve Your Math with Three Squares A Day	Invite your students to see the patterns within the square numbers and incrementally from square to square.	6 - 12
Friday	10:30:00 AM	Pinehurst	Open			A look at how to approach standards and assessments when planning Data-Driven Instruction	
Friday	10:30:00 AM	Sandpiper	Amy	Scrinzi	Building a STEM Foundation with Unit Blocks	It's time to dust off those glorious wooden unit blocks and begin to uncover all that block building has to offer your students! Participants will take part in hands-on activities using unit blocks to learn how to set up and facilitate block building experiences that promote problem-solving, discovery, exploratory learning, and capitalize on the mathematics within! Come ready to build and leave with concrete ideas to get you started back in your classroom.	PreK - 2
Friday	10:30:00 AM	Sandpiper	Eva	Phillips	Building a STEM Foundation with Unit Blocks		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Friday	10:30:00 AM	Tanglewood	Karen	Hollebrands	Engaging Technology-Based Tasks For Your Classroom	Come engage with technology-based mathematics tasks using open source tools such as Desmos, Web Sketchpad, and CODAP. Bring a laptop or tablet!	9 - 12
Friday	10:30:00 AM	Tanglewood	Gemma	Mojica	Engaging Technology-Based Tasks For Your Classroom		
Friday	10:30:00 AM	Tanglewood	Brooke	Outlaw	Engaging Technology-Based Tasks For Your Classroom		
Friday	10:30:00 AM	Tidewater A/B	Lori	Triplett	Math Clubs - Be A Part of the Fun!	Math Club! Come learn fun and exciting K - 2 games that use cards and dice. Learn easy ways to organize and implement games that work with multiple ability levels in math clubs. Gameboards and ideas for implementing Monday!	PreK - 5
Friday	10:30:00 AM	Tumbery	Diane	Price	Using Close Reading Strategies to Solve Multi-Step Math Problems	Do your students continue to struggle with multi-step word problems? Then this session is for you! Participants will learn how to teach students to apply their close reading strategies to solve multi-step word problems. Using meaningful rich text and tasks, participants will learn how to use language skills to make sense of mathematics.	3 - 5
Friday	10:30:00 AM	Tumbery	Shannon	Hullett	Using Close Reading Strategies to Solve Multi-Step Math Problems		
Friday	11:30:00 AM	Arrowhead A	Amber	Thomas	The Stock Market Game	What to do with \$100,000? Invest it! Learn tips and tricks to easily implement this simulation in class while your students play the game.	3 - 5
Friday	11:30:00 AM	Auditorium I	Sandra	Linder	Keynote		PreK - 2
Friday	11:30:00 AM	Auditorium II	Julie	Reulbach	Do More With Desmos, Exploring Activity Builder	Come experience Desmos Activity Builder! Learn how to find, use, and edit Desmos Activity Builders, and even create your own engaging activities!	6 - 12
Friday	11:30:00 AM	Auditorium IV	Wendi	Hinson	Math Blended Learning	Blended learning in the math classroom using Canvas, Schoonet, Discovery Education, Desmos, IXL and many other tools to help students explore and learn while improving competencies.	K - 12
Friday	11:30:00 AM	Auditorium IV	Chad	Osborne	Math Blended Learning		
Friday	11:30:00 AM	Augusta A	Holly	Bass	Engagement for Student Success	One of the components of AMATYC is ENGAGEMENT. The presenter will share ways she incorporated more hands on activities for her classes that engaged her students in the classroom and across campus. She will also highlight on how it affected the overall vibe of mathematics at her school by working across the curriculum.	College/ University
Friday	11:30:00 AM	Biltmore A	Joan	Ray	Online Treasure Trove of Mathematics Resources	Online resources that are standards aligned and student centered will be explored. Discussions about how to incorporate these resources in daily lessons will be encouraged. Attendees will be given access to a compiled infographic of the presentation.	6 - 12
Friday	11:30:00 AM	Biltmore A	Yvette	Shore	Online Treasure Trove of Mathematics Resources		
Friday	11:30:00 AM	Biltmore B	Kathleen	Fick	Measurement Olympics	Exploring Measurement! A Middle School STEM Summer Camp hands-on activity, including measurement modules and classroom extensions, will be shared. Handouts provided.	6 - 8
Friday	11:30:00 AM	Biltmore B	Daniel	Bennett	Measurement Olympics		
Friday	11:30:00 AM	Blue Ash	Catherine	Slowikowski	Interactive Notebooks for High School Math	See specific examples of how I use interactive notebooks in my classes, and receive strategies and resources to help you implement INB's in your own classes.	9 - 12
Friday	11:30:00 AM	Cedar A	Jayne	Sleese	Statistics in Action from 5 to 95!	Engage students' interests in our data driven world with interactive activities and Google Apps that make Statistics in your daily classroom come alive!	K - 12
Friday	11:30:00 AM	Cedar A	Karen	Walker	Statistics in Action from 5 to 95!		
Friday	11:30:00 AM	Cedar B	Brittney	Dennis	Best Practices That Make You A Better Teacher Tomorrow	Interactive Overview of Guided Math Strategies, Number Talks, and Innovative Ways to Build Accountability in your class.	3 - 5
Friday	11:30:00 AM	Cedar B	Colby	Williams	Best Practices That Make You A Better Teacher Tomorrow		
Friday	11:30:00 AM	Cedar C	Laila	Thompson	Take 5: Physical Activity Breaks in Math Classes	Are you interested in increasing students' enjoyment, engagement, and performance in math class? Come "Take 5". Learn about the benefits of physical activity breaks.	6 - 8
Friday	11:30:00 AM	Colony C	Sarah	Gilbert	EVAAS: The Basics	Educators will become familiar with interpreting EVAAS school-level reports, hosting student growth data conversations, and considering EVAAS data in instructional decision making and planning.	K - 12
Friday	11:30:00 AM	Colony C	Deanene	Deaton	EVAAS: The Basics		
Friday	11:30:00 AM	Guilford C	Andres	Ruzo	Keynote 6-12		6 - 12
Friday	11:30:00 AM	Oak C	Fred	Coon	Understanding Probability Literacy of High School Students	Understanding the probability literacy of high-school students is vital to developing good probability lessons. Pilot study results and tasks used will be shared for teacher insight.	9 - 12
Friday	11:30:00 AM	Pinehurst	Open				
Friday	11:30:00 AM	Tumbery	Sara	Vaughn	Vertical Non-permanent Surfaces for the Win	Increase engagement of learners, improve mathematical conversations, and deepen the level of understanding by tweaking your use of vertical non-permanent surfaces (VNPS).	K - 12
Friday	12:30:00 PM	Arrowhead A	open				
Friday	12:30:00 PM	Arrowhead A	Courtney	Lewis	From Fractions and Cuisenaire rods to Bar Models and Equations	Students use Cuisenaire rods to understand fraction equivalence and determining the whole when given a fractional piece. Come work with Cuisenaire rods and hands-on bar models to transition from concrete representations of fractions to concrete representations of one-step equations.	6 - 8
Friday	12:30:00 PM	Arrowhead B	Dorothy	Sulock	Healthy Math	Arithmetic worksheets about math of food, especially grams of sugar and calories in foods.	PreK - 5
Friday	12:30:00 PM	Auditorium II	Julie	Reulbach	Assessment with Desmos!	Come learn how to use create assessments using Desmos Activity Builder! Using Desmos Activity Builder for assessments can reduce student stress while giving teachers deeper insight into their students specific content knowledge. You will learn how to create free-response, multiple choice and graphing slides to accurately assess your students.	9 - 12
Friday	12:30:00 PM	Auditorium III	Michelle	Stephan	Co-Constructing Statewide K-8 Curriculum Frameworks	Come learn about the purposes and goals for the creation of the K-8 instructional frameworks, and the design-based implementation research process behind their development.	K - 12
Friday	12:30:00 PM	Auditorium III	Arren	Duggan	Co-Constructing Statewide K-8 Curriculum Frameworks		
Friday	12:30:00 PM	Auditorium III	Katie	Schwartz	Co-Constructing Statewide K-8 Curriculum Frameworks		
Friday	12:30:00 PM	Auditorium IV	Stephanie	Roland	Putting the Pieces Together	Practices that are vital for students to become mathematical thinkers; Sharing strategies that have proven to be effective along with practical ways of implementing them.	3 - 5
Friday	12:30:00 PM	Augusta A	Daniel	Bennett	"Genius and Tragedy: The Life and Mathematics of Evariste Galois"	We will discuss the historical perspective, the political motivation, the hardships of his life, and the brilliance of his discoveries as they pertain to the modern day algebra.	College/ University

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Friday	12:30:00 PM	Augusta B	Stephanie	Lachmann	Math Without Numbers?! Are You Crazy?!	Do your students randomly assign an operation when solving word problems (WP)? Numberless WPs helps students deconstruct the information and use reasoning to construct a solution.	PreK - 5
Friday	12:30:00 PM	Augusta B	Jenny	Ainslie	Math Without Numbers?! Are You Crazy?!		
Friday	12:30:00 PM	Biltmore A	Amanda	Thompson	Putting the I Content Teachers and IEP Teachers	The implementation of IEP, 504s, and ELL plans within your instruction	6 - 12
Friday	12:30:00 PM	Biltmore B	Suzy	Koontz	Kinesthetic Strategies to Improve Math Outcomes	Do your students struggle with fluency and deep conceptual understanding of math concepts? Learn kinesthetic strategies to	K - 12
Friday	12:30:00 PM	Blandwood	Emily	Elrod	3 Part Task: Informal Inferential Reasoning	Come experience a 3 part task situated in student understanding of sampling distributions and CI T including hands-on data collection and	6 - 12
Friday	12:30:00 PM	Blandwood	Asli	Mutlu	3 Part Task: Informal Inferential Reasoning		
Friday	12:30:00 PM	Blue Ash	Christina	Azmy	Task Design for Statistical Habits of Mind	Bring a laptop to this interactive session and engage with resources to help teachers design, adapt, or select tasks that develop statistical habits of mind.	6 - 12
Friday	12:30:00 PM	Blue Ash	Heather	Barker	Task Design for Statistical Habits of Mind		
Friday	12:30:00 PM	Blue Ash	Hollylynn	Lee	Task Design for Statistical Habits of Mind		
Friday	12:30:00 PM	Blue Ash	Gemma	Mojica	Task Design for Statistical Habits of Mind		
Friday	12:30:00 PM	Carolina	Crystal	Williams	Action, Action We Want Fractions!	Let's explore the ten essential strategies that foster fraction sense. Come ready to dive into activities that support the conceptual understanding of fractions.	3 - 5
Friday	12:30:00 PM	Cedar A	Elizabeth	Schmidt	Statistics and Probability in the Elementary Classroom	Are you ready to dig into Statistics and Probability with your students? Join us for hands on exploration and activities directly related to the NCSCOS.	3 - 5
Friday	12:30:00 PM	Cedar A	Denotra	Franks	Statistics and Probability in the Elementary Classroom		
Friday	12:30:00 PM	Cedar B	Ryne	Cooper	Going Beyond the Grade	Tired of grades that mean nothing to your students? Tired of them asking for points? Join us in a discussion of how to motivate beyond grades and make scores meaningful for your students.	6 - 12
Friday	12:30:00 PM	Cedar B	Mike	Swinson	Going Beyond the Grade		
Friday	12:30:00 PM	Cedar C	Wendy	Srinivasan	Discrete Math and How to Relate it to our students	We will look at activities and projects that we have used in our classrooms and how they can be implemented in your classrooms.	9 - 12
Friday	12:30:00 PM	Cedar C	Tina	Robinson	Discrete Math and How to Relate it to our students		
Friday	12:30:00 PM	Colony A	Erin	Moss	Connecting with Math Through Children's Literature	In this session, you will learn how to integrate children's literature into your math program.	PreK - 5
Friday	12:30:00 PM	Colony B	Chadd	McGone	Bringing mathematics alive and making it fun.	GlobalMathStories.org is a tool that helps teachers write lessons that teach mathematics and expose their students to life in other parts of the world.	K - 12
Friday	12:30:00 PM	Colony C	Sarah	Gilbert	EVAAS: Insightful Uses for Classroom Teachers	Classroom teachers will explore specific EVAAS reports that can inform many aspects of their teaching craft, including differentiated student support, personal professional development, leadership opportunities, and more.	K - 12
Friday	12:30:00 PM	Colony C	Deanene	Deaton	EVAAS: Insightful Uses for Classroom Teachers		
Friday	12:30:00 PM	Imperial A	Cyndi	Edgington	Infusing Intellectual Standards for Critical and Creative Thinking into Your Math Classroom	In this session, learn how to foster your students' critical and creative thinking, problem solving and risk taking in the math classroom.	6 - 12
Friday	12:30:00 PM	Imperial B	Melissa	Gibbs	Planning for Effective Instruction	Explore a variety of strategies that make efficient use of instructional time, promote differentiated instruction, and actively engage students while developing a growth mindset.	6 - 12
Friday	12:30:00 PM	Imperial B	Joy	McCormick	Planning for Effective Instruction		
Friday	12:30:00 PM	Imperial C	Drew	Corley	Decimals: Combining Place Value and Fractions	Decimals offer a connection between whole numbers and fractions. Come explore rich tasks emphasizing this relationship, like measuring the thickness of a piece of paper!	3 - 5
Friday	12:30:00 PM	Imperial D	Susan	O'Connell	Keynote Gr 3-5		3 - 5
Friday	12:30:00 PM	Imperial E	Caroline	Godwin	Dash and Dot Across Math	A hands on session to help you learn how to use the Dash and Dot robots to help students understand math.	K - 12
Friday	12:30:00 PM	Imperial E	Nicole	Waters	Dash and Dot Across Math		
Friday	12:30:00 PM	Imperial E	Kelly	Williamson	Dash and Dot Across Math		
Friday	12:30:00 PM	Imperial F	Jennifer	Parker	Equity & Access: Using Tasks to Reach All Students	Dig deeper into the Five Equity-Based Mathematics Teaching Practices and how using task-based learning in the classroom can help you reach ALL your students.	6 - 12
Friday	12:30:00 PM	Imperial G	Jessica	Black	"It's Frogs, It's Planes, It's Data!"	" It's Frogs, It's Planes, It's Data!"	6 - 8
Friday	12:30:00 PM	Imperial G	Alexis	Milner	"It's Frogs, It's Planes, It's Data!"		
Friday	12:30:00 PM	Imperial H	Amber	Thomas	The Ice Cream Stand	Is it cheap to own an ice cream stand? During this interactive session, become the owner! You will also gain access to hundreds of lessons.	6 - 8
Friday	12:30:00 PM	Morehead	Wendy	Lewis	Mathematical Meaning with "Mathematizing!"	Mathematize! Leverage what students are thinking in mathematics. In this collaborative workshop, participants will learn to weave literacy, models, and intentional talk with students' thinking.	PreK - 2
Friday	12:30:00 PM	Morehead	Melissa	Davies	Mathematical Meaning with "Mathematizing!"		
Friday	12:30:00 PM	Morehead	Jennifer	Perrell	Mathematical Meaning with "Mathematizing!"		
Friday	12:30:00 PM	Oak A	Rolanda	Baldwin	African American Male Math Achievement Toolkit	Supporting teachers to use research-based effective instructional strategies, with attention to their bias, that are specifically developed to reach and teach African-American males.	K - 12
Friday	12:30:00 PM	Oak B	Julia	Webster	Stories from the History of Math	(CORRECTED) Stories of funny, dangerous, and thought-provoking moments from mathematical history that can be woven into classroom conversation, increasing student engagement with and appreciation of mathematics.	6 - 12
Friday	12:30:00 PM	Pebble Beach	Eric M.	O'Brien	The Power of Powers	Invite your students to work with exponents and logarithms quickly and accurately. You'll ask, "Why didn't I learn this way?"	6 - 12
Friday	12:30:00 PM	Pinehurst	Mary	Johnson	Lesson Study: Professional Development Within Your Own Department	Lesson Study is professional development that is individualized for teachers and builds strong Professional Learning Teams. We will share how we have overcome barriers, grown professionally by completing Lesson Study cycles, and supported each other in providing insightful lessons for our students.	6 - 12
Friday	12:30:00 PM	Pinehurst	Keri	McKenzie	Lesson Study: Professional Development Within Your Own Department		

Day	Time	Room	First Name	Last Name	Presentation Title	Description	Grade Band
Friday	12:30:00 PM	Sandpiper	Robyn	Hobson	Not Your Average Reteach	What do you do when they don't get it? During this session, participants will learn strategies for addressing targeted misconceptions using an innovative reteach model.	PreK - 5
Friday	12:30:00 PM	Sandpiper	Busola	Stackhouse	Not Your Average Reteach		
Friday	12:30:00 PM	Tanglewood	Tracy	Conte	Pattern Talks: Connecting Visuals to Expressions	Help students write expressions given a pattern, and evolve into writing equations of linear functions given block patterns, tables, and graphs using non-traditional methods.	6 - 12
Friday	12:30:00 PM	Tidewater A/B	Lisa	Rosenberg	Using a Virtual World in an Introductory Statistics Class	Participants will experience collecting data and conducting experiments on residents in a virtual online setting called The Islands.	College/ University
Friday	12:30:00 PM	Tidewater A/B	Kirstie	Doehler	Using a Virtual World in an Introductory Statistics Class		
Friday	12:30:00 PM	Tidewater A/B	Laura	Taylor	Using a Virtual World in an Introductory Statistics Class		
Friday	12:30:00 PM	Tidewater A/B	Ryne	VanKrevelen	Using a Virtual World in an Introductory Statistics Class		
Friday	12:30:00 PM	Tumbery	Jessalyn	Spell	Go Team! Cooperative Games and Strategies	Explore several games and learning activities that can be adapted for review for many grade levels. Come ready to play and leave with electronic resources.	3 - 5
Friday	1:30:00 PM	Arrowhead A	open				
Friday	1:30:00 PM	Arrowhead B	Dorothy	Sulock	Reality Math	Useful math units about energy, health, sports, personal finance, population, firearm deaths, etc.	9 - 12
Friday	1:30:00 PM	Auditorium 1	Susan	Price-Cole	Instructional Coaching and Co-teaching in Elementary Math Classrooms: Cultivating Connections for All	This session provides recent research about instructional coaching and co-teaching as these two topics intersect in elementary math classroom. Participants will learn how to cultivate a strong relationship between co-teachers so that an optimized learning environment is the result.	3 - 5
Friday	1:30:00 PM	Auditorium II	Laura	Baker	Tools for Teachers: Standards and Resources for Grade 1	Do you still have questions about the 2017 NC Standard Course of Study for Mathematics and the resources that are available for support? Come meet the writers of the Tools for Teachers project and find out how to use the NCDPI instructional framework, the revised standards, and other NCDPI resources to help you plan for instruction.	PreK - 2
Friday	1:30:00 PM	Auditorium II	Danielle	Long	Tools for Teachers: Standards and Resources for Grade 1		
Friday	1:30:00 PM	Auditorium III	Michelle	Stephan	6-8 Instructional Frameworks Update	In this session, we will share updates about the Instructional Frameworks and preview resources to use during the implementation of the new 6-8 mathematics standards.	6 - 8
Friday	1:30:00 PM	Auditorium III	Katie	Mahwinney	6-8 Instructional Frameworks Update		
Friday	1:30:00 PM	Auditorium III	Melanie	Richey	6-8 Instructional Frameworks Update		
Friday	1:30:00 PM	Auditorium IV	Katie	Schwartz	K-5 Instructional Frameworks Update	In this session, we will share updates about the Instructional Frameworks and preview resources to use during the implementation of the new K-5 mathematics standards.	PreK - 5
Friday	1:30:00 PM	Auditorium IV	Arren	Duggan	K-5 Instructional Frameworks Update		
Friday	1:30:00 PM	Augusta A	Molly	Keams	Are We Making Math Scary?	How do my feelings about math impact my students? Discover what we found about practices you likely are (or aren't) utilizing based on these attitudes.	PreK - 5
Friday	1:30:00 PM	Augusta A	Erin	Hone	Are We Making Math Scary?		
Friday	1:30:00 PM	Blue Ash	Tiffany	Hickman	Math Stations for Beginners	Learn and take away strategies to help you start running math stations in your classroom. Hear how using small group instruction and activities transformed my classroom.	PreK - 2
Friday	1:30:00 PM	Cedar A	Malik	Richardson	Easy Jeopardy Fun	You will learn how to easily integrate Jeopardy without too much hassle.	9 - 12
Friday	1:30:00 PM	Cedar B	Holly	Averette	Elementary AP?	Build on your understanding of vertical alignment to motivate students and offer a challenging enrichment program. Leave with examples of pacing and enrichment activities.	3 - 5
Friday	1:30:00 PM	Cedar B	Marla	Chaney	Elementary AP?		
Friday	1:30:00 PM	Cedar C	Tina	Robinson	Projects For Discrete Math	Looking for projects for discrete math? Come and hear about the various projects I have used successfully in my class. I will have handout, rubrics and sample finished projects.	9 - 12
Friday	1:30:00 PM	Cedar C	Wendy	Srinivasan	Projects For Discrete Math		
Friday	1:30:00 PM	Colony C	Sarah	Gilbert	EVAAS Data and Teaching Teams	Educators will explore ways to integrate EVAAS reports into teaching team reflection and planning practices to bolster student growth collaboratively.	K - 12
Friday	1:30:00 PM	Colony C	Deanene	Deaton	EVAAS Data and Teaching Teams		
Friday	1:30:00 PM	Oak B	Christen	VanNewkirk	Building Math Positive Classrooms	Learn how a student teacher and cooperating teacher designed their classroom to encourage growth mindsets and math positivity.	9 - 12
Friday	1:30:00 PM	Oak B	Ashley	Lawson	Building Math Positive Classrooms		
Friday	1:30:00 PM	Oak C	Robin	Barbour	Ours is to question why: No more keep change flip	How do we explain that we can divide thirds by fourths and have an answer with ninths to our students? Come learn how to model fraction division and address NC.6.NS.1 using common denominators and then get to the standard algorithm for 7th grade.	6 - 8
Friday	1:30:00 PM	Pinehurst	Kaan	Ozmeral	High School to College Math	This session will be a discussion on the approach we take as math educators from the high school and college perspective.	College/ University
Friday	1:30:00 PM	Tumbery	Ashley	Whitehead	Developing Flexibility in Mathematics: Incorporating Number Talks in the K-12 Classroom	In this K-12 session, we will discuss the use of number talks as a means for discourse as well as helping students become flexible with mathematics.	K - 12