

		ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
Friday	8:00–8:45	136	Supervisors and Administrators		Administrator Preview	Administrators play an important role in the development of teachers' implementation of best practices. This time will be spent networking with other administrators, sharing challenges and successes and helping to provide a lens through which to view the workshops and sessions of the day.	Jeremy Babel		
		135			Conference First-Timer	Is this your first time attending this conference? Want to know ways to make the most out of this conference? Our time will be spent talking about strategies and how to get the most out of your experience here today. Come join us to feel energized and ready for the day.	John O'Malley IV		
Friday	9:00–10:30	Welcome and Featured Speaker							
		Jose Luis Vilson							
		Room (Conference Center "Lunch room")							

Friday
10:40–11:20

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
135	Grades 9–12+	Access and Interest	Transitional Math: Exploring Task-Based Resources	We will explore the free resources available to districts as they create and implement Transitional Math programs for their students. These resources provide rich, contextualized tasks that will engage students in the Transitional Math Competencies preparing them for post-secondary experiences.	Anji Garza	Jeanine Sheppard	
202	Grades 6–8	Innovative Teaching Strategies for Specific Content	Answering Big Questions Understanding Big Numbers	How do we get students to conceptually understand and comfortably operate with large numbers? In this session we will discuss strategies and tasks to help bring large numbers into the world of reality for our students and find the joy in answering big questions involving big numbers.	Aaron Bingea		
203	Grades 3–5	Assessment	Formative Assessment in Elementary School Geometry	Explore examples of elementary students' thinking about shapes and their properties. We will share discussion-rich mini-lessons that can be used as formative assessment. Develop strategies for using information on student thinking to inform instruction.	Peter Wiles	Rick Anderson	
209	Grades K–12	Assessment	Student Growth with Learning Progressions	What is student growth? It is more than just getting right answers. It is about growing in thinking to deepen understanding. In this session, participants will explore strategies for monitoring growth beyond test scores.	Jennie Winters		
211	Supervisors and Administrators	Access and Interest	Collaborating to Promote All Students' Learning	To improve student learning of mathematics, all students must have access and be actively engaged in mathematics. In this session, we will explore the dimensions of powerful mathematics classrooms using the TRU framework as a guide, and focus on the crucial role of the instructional supervisor.	Mary Jo Tavormina		
220	Grades Pre-K–2	Innovative Teaching Strategies for Specific Content	Empowering Early Learners in Critical Thinking	Join us as we collaboratively participate in a FUN, hands-on math learning environment playing with 3-Acts Math as well as the Three Reads Strategy. Participants will engage as learners in critical thinking and problem solving that promotes stronger mathematical identities in early learners.	Toni Galassini	Gavin Creaden	
221							
401	Grades 3–5	Innovative Teaching Strategies for Specific Content	Making Reasoning and Connections Explicit	Do you want to move students thinking and reasoning? Participants will explore ways to make connections and reasoning explicit during while analyzing games, activities, and array of math talks.	Jennifer Mundt Leimberer		
403	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Number Talks in HS Engage and Empower ALL Students	Get students thinking, talking, reasoning in ways that will surprise even the most experienced teacher. This workshop will provide you with the why, the how, the resources and the confidence to empower you to incorporate Number Talks in class tomorrow.	Jackie Palmquist	Sue Ellen Vozza	
405	Grades Pre-K–2	Assessment	Support Spatial Thinking w/ Formative Assessment	This session will focus on two areas of spatial reasoning: shape understanding and spatial thinking. We will explore formative assessment tasks that can help teachers understand young children's spatial reasoning development, and classroom activities that can help them support children's learning.	Katie Flores	Debbie Leslie	Liesje Spaepen

Friday
11:30–12:10

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
135		Assessment	Formative Assessment Tasks	The ISBE Content Specialists have created a library of Formative Assessment Tasks based on PARCC released items. Come explore how to use this resource to	Jeanine Sheppard	Heather Brown	
202	Grades 6–8	Innovative Teaching Strategies for Specific Content	Why? Inspire, Spark Motivation, & Connect!	This session will use examples from an Algebra 1 course to focus on ways to make learning interesting, create assessments that will embrace creativity and allow for individual student voice, and shift your focus to a standards-based approach to teaching, learning, and reporting.	Heather Komac		
203	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Purposeful PLCs	The purpose of this session is to share how to create and score formative assessments to collect student data in order to differentiate to meet student needs. The session will include real examples on how to "go beyond your classroom doors" to promote mathematical understanding for all students.	Jessica John		
209	Grades 3–5	Assessment	Elevate & Engage with ACI	We will walk you through the ACI (Assessment Check In) and give you a variety of ways to evaluate students in the classroom that you can take with you and use immediately. Then take a comprehensive look at the online data tracking tool and the ways to use the reports to create small groups.	Melissa Wise	Megan Carlander	
210	Grades 6–12	Access and Interest	Facilitating Authentic Intellectual Challenges	Have you ever had a coworker tell you about a great activity and when you try it out, you have different results? In this session, we will explore how our teacher facilitation moves could impact student learning.	Lily Nassiri	Chris Nho	
211	Supervisors and Administrators	Access and Interest	Collaborating to Promote All Students' Learning	To improve student learning of mathematics, all students must have access and be actively engaged in mathematics. In this session, we will explore the dimensions of powerful mathematics classrooms using the TRU framework as a guide, and focus on the crucial role of the instructional supervisor.	Mary Jo Tavormina		
220	Grades Pre-K–2	Innovative Teaching Strategies for Specific Content	Empowering Early Learners in Critical Thinking	Join us as we collaboratively participate in a FUN, hands-on math learning environment playing with 3-Acts Math as well as the Three Reads Strategy. Participants will engage as learners in critical thinking and problem solving that promotes stronger mathematical identities in early learners.	Toni Galassini	Gavin Creaden	
221	Grades K–6	Innovative Teaching Strategies for Specific Content	Collaborative & Engaging Math? Let's Do This!	Looking for ways to increase collaboration/engagement in your math workshop? Participants will interact with multiple strategies/structures and walk away with the confidence to embed them in each workshop component. Videos of 4th grade students will be shown. (Most applicable for 1st-6th)	Kristi Isaacson	Christina Betz-Cahill	
401	Grades 3–5	Innovative Teaching Strategies for Specific Content	Making Reasoning and Connections Explicit	Do you want to move students thinking and reasoning? Participants will explore ways to make connections and reasoning explicit during while analyzing games, activities, and array of math talks.	Jennifer Mundt Leimberer		
403	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Number Talks in HS Engage and Empower ALL Students	Get students thinking, talking, reasoning in ways that will surprise even the most experienced teacher. This workshop will provide you with the why, the how, the resources and the confidence to empower you to incorporate Number Talks in class tomorrow.	Jackie Palmquist	Sue Ellen Vozza	
405	Grades Pre-K–2	Assessment	Support Spatial Thinking w/ Formative Assessment	This session will focus on two areas of spatial reasoning: shape understanding and spatial thinking. We will explore formative assessment tasks that can help teachers understand young children's spatial reasoning development, and classroom activities that can help them support children's learning.	Katie Flores	Debbie Leslie	Liesje Spaepen

Friday
1:50–2:30

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
135	Grades 3–5	Innovative Teaching Strategies for Specific Content	I've Selected an Open-Ended Math Task – Now What?	Join us as we explore ways to support productive struggle with rich tasks. We will plan a sample task by previewing math content and practices, brainstorming students' strategies and misconceptions, and examining ways to support students while maximizing their opportunities to learn.	Amanda Zimolzak	Katie Flores	Alison Whittington
202	Grades 6–8	Innovative Teaching Strategies for Specific Content	Supporting ELs in the math classroom	We will dive into the "whys and hows" of developing oral language and vocabulary tied to math content area goals, and share a variety of strategies, scaffolds and rubrics for EL students.	Nicole Coy	Kenji Mori	
203	Grades K–12	Access and Interest	Sharing your innovations as scholarly articles	Do you have a great teaching practice you'd like to share? Publishing in Illinois Mathematics Teacher (IMT) journal is a great way for your colleagues to find out about it. The IMT editors will guide you through the process of creating an article. Bring an idea that you are interested in publishing.	Christopher Shaw	Daniel Jordan	
209	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Creating a Social Justice Math Lesson	An approach to social justice in math empowers students to gain power over language, skills, and practices using and applying mathematics. This concern the ability to use mathematics to better one's life chances.	Kwame Anthony Scott		
210	Grades 3–5	Assessment	Number Sense and the Distributive Property	Learn how to increase your students' number sense while using the array model of multiplication to teach the distributive property. Learn how to identify students at risk for understanding from gestures, talk and written work.	Cathy Kaduk		
211	Grades 6–12	Innovative Teaching Strategies for Specific Content	Shaking it Up: Engagement in Math Bell to Bell	We've heard that changes need to be made in the math classroom, but how do we do it and what does improved math instruction look like? This session will share practical tools, routines, and strategies to engage students in all aspects of learning, from bell to bell. They might not want to leave!	Kathy Felt		
220	Grades 6–12	Access and Interest	Algebra for All: STEM to STEAM	Looking for hands-on activities to engage students to learn about rotational symmetry, parallel lines and a transversal, and equivalent expressions? Join us in an exploration of paperfolding, origami, and art to dive deeper into the mathematics and experience the power of STEAM.	Jennifer Dao		
221	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Tasks that Promote Collaborative Learning	The Complex Instruction Consortium (an ICTM affiliate) is a network of math educators dedicated to improving math education through collaboration with a focus on rich mathematical, group-worthy tasks. Come join us as we explore a variety of tasks that you can implement in your classrooms tomorrow!	Tina Nocella	Gary Chu	
401	Grades K–12	Innovative Teaching Strategies for Specific Content	Effective Differentiation in Mathematics	Explore a variety of easy to implement differentiation strategies that will effectively engage the diverse learners in your classroom.	Heather Brown	Jeanine Sheppard	
403	Grades K–12	Access and Interest	Equitable Access: How Little Math Could You Do?	I started asking myself a hard question after teaching a lesson: How little math could a student get away with doing in my class? What is engagement? This led me to seek out ways to make sure all voices are valued and contribute in meaningful ways using structures, math routines, and reflection.	Annie Forest		
405	Grades 6–12	Innovative Teaching Strategies for Specific Content	The Kids Are Alright: Enhancing Student Agency	Do you spend your day responding to, "Is this for a grade?" Well, using activities centering on student agency, I will highlight ways you can empower and motivate all students. "The Kids Are Alright" is often used to convey that the kids are not alright. With these strategies, maybe they will be.	Brandon Thornton		

Friday

2:40–3:20

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
135	Grades 3–5	Innovative Teaching Strategies for Specific Content	I've Selected an Open-Ended Math Task – Now What?	Join us as we explore ways to support productive struggle with rich tasks. We will plan a sample task by previewing math content and practices, brainstorming students' strategies and misconceptions, and examining ways to support students while maximizing their opportunities to learn.	Amanda Zimolzak	Katie Flores	Alison Whittington
202	Grades K–12	Innovative Teaching Strategies for Specific Content	Let's Get Messy!!! Mathematical Modeling	Further your understanding of the research behind and the meaning of Mathematical Modeling. By the end of this workshop, you will have ideas that can be used immediately in your classroom to meet required modeling standards!	Katie Winer	Monica Wadler	
203	Grades K–12	Access and Interest	Sharing your innovations as scholarly articles	Do you have a great teaching practice you'd like to share? Publishing in Illinois Mathematics Teacher (IMT) journal is a great way for your colleagues to find out about it. The IMT editors will guide you through the process of creating an article. Bring an idea that you are interested in publishing.	Christopher Shaw	Daniel Jordan	
209	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Algebra I Block - Expanding on Algebra I Support	We will address the structure of our Algebra I Block (Algebra I and "Algebra Academy") and provide suggestions for how to structure an Algebra I support course that keeps students on track and motivated. We will also discuss changes we have progressively made to better the course for students.	Alyssa Schneider	Jennifer Mayerik	
210	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Activities that engage and assess students	We will share activities that engage students and assess their understanding of the material being covered in class. The ideas that will be shared can be used in many different classes at many different levels.	Vicki Kieft	Steven Soszko	
211	Grades K–6	Innovative Teaching Strategies for Specific Content	Guided Math	Are you trying to meet the needs of a diverse group of students? Then guided math might be for you. In this session, participants will explore how to structure small group instruction based upon student needs.	Jennie Winters		
220	Grades 6–12	Access and Interest	Algebra for All: STEM to STEAM	Looking for hands-on activities to engage students to learn about rotational symmetry, parallel lines and a transversal, and equivalent expressions? Join us in an exploration of paperfolding, origami, and art to dive deeper into the mathematics and experience the power of STEAM.	Jennifer Dao		
221	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Tasks that Promote Collaborative Learning	The Complex Instruction Consortium (an ICTM affiliate) is a network of math educators dedicated to improving math education through collaboration with a focus on rich mathematical, group-worthy tasks. Come join us as we explore a variety of tasks that you can implement in your classrooms tomorrow!	Tina Nocella	Gary Chu	
401	Grades K–12	Innovative Teaching Strategies for Specific Content	Effective Differentiation in Mathematics	Explore a variety of easy to implement differentiation strategies that will effectively engage the diverse learners in your classroom.	Heather Brown	Jeanine Sheppard	
403	Grades K–12	Access and Interest	Equitable Access: How Little Math Could You Do?	I started asking myself a hard question after teaching a lesson: How little math could a student get away with doing in my class? What is engagement? This led me to seek out ways to make sure all voices are valued and contribute in meaningful ways using structures, math routines, and reflection.	Annie Forest		
405	Grades 6–12	Innovative Teaching Strategies for Specific Content	The Kids Are Alright: Enhancing Student Agency	Do you spend your day responding to, "Is this for a grade?" Well, using activities centering on student agency, I will highlight ways you can empower and motivate all students. "The Kids Are Alright" is often used to convey that the kids are not alright. With these strategies, maybe they will be.	Brandon Thornton		

Friday
3:30-4:10

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
135	Grades 6-8	Innovative Teaching Strategies for Specific Content	Mathivate...Be the best fraction of a kid's day!!	M-A-T-H Best subject ever! Math Muscles will make daily problems fun + meaningful. Fracordiddles will have students excited about mathabulary. MathO'lanterns + Mathentine's are hands on projects for surface area and volume. Circle Yourself introduces properties of a circle. Let's celemathbrate!!	Kim Thomas		
202			#ICTMchat Tweetup	Unsure how Twitter can help you professionally? Need to connect with teachers beyond your district or gain new classroom ideas? Curious about the #MTBoS or #ICTMChat hashtags? Just want to meet the people behind the Twitter handles? If so, come join us for an in-person "Tweet and Greet!"	Annie Forest	Justin Brennan	
203	Grades K-12	Access and Interest	Reception: Illinois Mathematics Teacher Journal	The editors of the Illinois Mathematics Teacher, official journal of the ICTM, invite conference attendees to discuss mathematics, teaching, and article ideas over light refreshments.	Daniel Jordan	Christopher Shaw	
209	Grades K-12	Access and Interest	Bring #publicmath to the Public: #MKEmath2020	Inspired by the #publicmath hashtag, find out how Milwaukee cultural institutions, corporate outreach, community organizations, and math educators are connecting to create opportunities for math awareness, exploration, and discourse for students and families for a Year of Math 2020. #MKEmath2020	Mary Langmyer	Pete Reynolds	Joost Allard
210	Grades 9-12+	Innovative Teaching Strategies for Specific Content	Formulas I've Forgotten	This session will explore the formulas that your high school math class can do without. Hear about my classroom's journey away from formula memorization towards a deeper and more accessible understanding of mathematics.	Melissa Walton		
211	Teacher Educators	Innovative Teaching Strategies for Specific Content	Finding the Right Angle Blending HS Math Class	HS math classrooms are evolving. We will share our successes and struggles from year 1 of 'blending' math class. Defining blended as an instructional strategy using a variety of learning platforms and student choice to differentiate instruction takes learning beyond traditional classroom walls.	Jackie Palmquist	Tania Moneim	
220	Grades K-12	Innovative Teaching Strategies for Specific Content	Creating Powerful Thinkers and Learners	What is a "Math Person"? How does your mathematical identity influence students' identities? Participants will collaboratively look beyond the "what" of a good math activity to explore the "how", by focusing on "teacher moves" embedded within a vibrant mathematical learning experience for students.	Gavin Creaden		
221	Grades 6-12	Innovative Teaching Strategies for Specific Content	Be quiet?! No thanks, let's try student discourse.	Would you like to transform a quiet or off-task classroom into one rich in student mathematical discourse? Learn instructional methods for increasing the quantity and quality of student discourse and utilizing student home languages to promote mathematical learning.	James Dobrzanski	Michelle Perryman	Dalton Elkins
401	Grades K-6	Assessment	Incorporating games into daily instruction	Well conceived math games can produce strategic, flexible thinking in fluency. They can provide a greater DOK level of practice than a simple set of worksheet problems alone. Games can be differentiated and articulated for grade levels and enable student discussions for formative evaluation.	Matthew Foster		
403	Grades 9-12+	Innovative Teaching Strategies for Specific Content	Creating and Implementing Open Ended Questions	Are you looking for ways to enhance questioning in your classroom? Come experience a variety of types of questions that promote student thinking and learn how to create questions that facilitate student discussion.	David Sładkey	Rachel Fruin	Scott Miller
405	Grades K-12	Innovative Teaching Strategies for Specific Content	Composing and Decomposing Fractions and Hip-Hop!?!	Looking for innovative strategies to increase student engagement while teaching how to make use of structure? Stop by for a brief history in one of the world's most diverse and influential cultures as we make connections with fractions and remix your thinking of teaching mathematics.	Reggie Duncan		

Friday

4:20–5:00

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
135	Grades 6–8	Innovative Teaching Strategies for Specific Content	Mathivate...Be the best fraction of a kid's day!!	M-A-T-H Best subject ever! Math Muscles will make daily problems fun + meaningful. Fracordiddles will have students excited about mathabulary. MathO'lanterns + Mathentine's are hands on projects for surface area and volume. Circle Yourself introduces properties of a circle. Let's celemathbrate!!	Kim Thomas		
202	Grades 6–12	Innovative Teaching Strategies for Specific Content	Walking Towards a Winning Combination	Are you seeking new ideas to get students motivated? Do you want your students to have fun while engaged in mathematics? Together we will walk through the essentials of effective instructional routines that build/support an engaging learning environment, while fostering productive student discourse.	Sue Ellen Vozza	Carly Pietro	Mary Smaga
203	Grades K–12	Access and Interest	Reception: Illinois Mathematics Teacher Journal	The editors of the Illinois Mathematics Teacher, official journal of the ICTM, invite conference attendees to discuss mathematics, teaching, and article ideas over light refreshments.	Daniel Jordan	Christopher Shaw	
209	Grades 3–5	Assessment	We have the assessment data.... Now What?	K-6 session. We will go over how we can use data to set up and create small groups based on what students need. We will cover getting the data, and then what you can do with the data once you have it. Also the timing in a classroom and also activities that can be done and where to find them.	Megan Carlander	Melissa Wise	
210	Grades Pre-K–2	Assessment	Making Effective Assessment Habits Routine	Teachers understand the importance of formative assessment and thoughtfully observe students engaged in math. However, without efficient ways to gather data, they may struggle to establish a routine. We will explore a "Quick Check" tool and how it is practically used in primary math classrooms.	Katie Flores	Amanda Zimolzak	Denise Porter
211	Supervisors and Administrators	Innovative Teaching Strategies for Specific Content	Using Ambitious Goals to Drive Teacher Practice	We will engage in a rich analysis of particular moments of teaching, and explore how to make powerful connections between the "what," "how," and "why" of teaching mathematics.	Zachary Herrmann		
220	Grades K–12	Innovative Teaching Strategies for Specific Content	Creating Powerful Thinkers and Learners	What is a "Math Person"? How does your mathematical identity influence students' identities? Participants will collaboratively look beyond the "what" of a good math activity to explore the "how", by focusing on "teacher moves" embedded within a vibrant mathematical learning experience for students.	Gavin Creaden		
221	Grades K–12	Innovative Teaching Strategies for Specific Content	Math Trivia!	The name says it all! We will be spinning your beats and making you think in a bar-style trivia, with questions that involve math. Come with a group of friends and be ready to tackle quick calculations, estimations, and figure out the union of math and pop culture!	John Riddle	Patrick Fox	Colin Hayes
401	Grades K–6	Assessment	Incorporating games into daily instruction	Well conceived math games can produce strategic, flexible thinking in fluency. They can provide a greater DOK level of practice than a simple set of worksheet problems alone. Games can be differentiated and articulated for grade levels and enable student discussions for formative evaluation.	Matthew Foster		
403	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Creating and Implementing Open Ended Questions	Are you looking for ways to enhance questioning in your classroom? Come experience a variety of types of questions that promote student thinking and learn how to create questions that facilitate student discussion.	David Sladkey	Rachel Fruin	Scott Miller
405	Grades 6–12	Innovative Teaching Strategies for Specific Content	Delightful Feedback with Desmos	Few things are as important to learning as feedback. Whether checking for understanding, creating interpretive feedback to assist a student through a skill, or even using feedback to drive the lesson, the feedback options in Desmos Activity Builder are robust and delightful.	Justin Brennan		

		ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
Saturday	7:50-8:20	136			ICTM Business Meeting				
		ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
Saturday	8:30-9:10	134	Grades 6-12	Innovative Teaching Strategies for Specific Content	Sharknado: Adventures in Geometry	Use basic Geometry constructions and transformations to turn a rectangle into a hungry shark. Along the way, 4th graders and beyond would incorporate academic language and have "Geometry Talks" about shapes, perimeter, and area. Then, they would investigate tessellations to build the Sharknado!	Bob Mann		
		136	Grades K-12	Access and Interest	Not Just a Bunch of Old Dead White Dudes	ICYMI, much of the US education system is structured around whiteness and Eurocentrism. Come join us as we discuss underrepresented figures in math, and how we can work towards creating a more inclusive environment where all students see themselves as mathematicians.	Gary Chu	Tina Nocella	
		135	Grades 9-12+	Assessment	21st Century Skills and self-assessment in HS math	What do you want your students to leave your classroom with? Solving a quadratic equation? Finding exact trig values? How about being able to be an effective leader? Or being a skilled critical thinker? Join this session to help your students make connections between content and real life skills.	Betsy Schlimgen		
		202	Grades 6-12	Access and Interest	Enriching Engagement	The way you introduce a topic or utilize problems for kids to solve can have a powerful impact on their level of engagement within the classroom. Come see various techniques I have employed that have encouraged all of my kids to interact more often and increased student talking time.	John O'Malley IV		
		203	Grades K-12	Assessment	Digital Breakouts; How-to's & Engagement Benefits	Want to engage your students in a new & interesting way? We branch out from the Breakout EDU series. Learn how to use Google Apps to create a digital scavenger hunt that will have students engaged an entire class period! It is recommended that you have some experience using Google Docs & Forms.	Jill Casey	Molly Owles	Jennifer Bokermann
		209	Grades 9-12+	Innovative Teaching Strategies for Specific Content	Making Geometry Clear	I will share some of the many things I learned during my forty years teaching High School Geometry. Many of these things will make it easier for your students to succeed and hopefully many will help them appreciate the beauty of geometry and the joy it brings to many students.	John Benson		
		210	Grades 6-12	Assessment	Using "Real Problems" for Authentic Assessment	First, we'll take on a real-life complex problem using mathematics. Next, we'll explore how "real problems" can be the seeds for powerful authentic assessments.	Zachary Herrmann		
		211	Grades 9-12+		Implementing Open Source Digital Curriculum	Have you wondered what it's like to replace printed textbooks with digital resources that students actually use? Come explore how a district researched, selected, and implemented open source mathematics curricula that provides flexibility in instruction and learning.	Scott Miller	David Sladkey	Rachel Fruin
		220	Grades 6-8	Innovative Teaching Strategies for Specific Content	Going Deeper Than Area = Length x Width	Explore student's thinking about area and surface area measurement prior to and after students draw area units on the object. Focus on student examples of changes in student's thinking when asked to show how area units fit on the object.	Pamela S Beck		
		221	Teacher Educators	Innovative Teaching Strategies for Specific Content	IMTE Annual Business Meeting	Please attend the annual meeting of the IL Math Teacher Educators to discuss current issues and changes at ISBE in addition to election of officers. This is a time set aside to network with the math educators in the state and share local issues and brainstorm solutions. All K-16 educators invited.	Mary T. McMahon	Adam Poetzel	
		401	Grades K-6	Innovative Teaching Strategies for Specific Content	Supporting Fluency with Number Talks	Are you looking for a way to help students with mathematical fluency during Math time? Incorporating Number Talks into your daily routine aids with fluency and also supports language development. Come learn some tips so you can get started and see student success in your own classroom!	Karina Zurita	Sara Coombs	
		403	Teacher Educators	Innovative Teaching Strategies for Specific Content	AP Calculus - Ditch That Lecture	See what an active calculus curriculum looks like in action. Experience first hand an activity-driven, inquiry based approach where we pose problems or situations, consider possibilities, and then ask students to investigate and explore. Gain access to over 200 activities and 500 exercises.	Jim Pardun		
		405	Grades 3-5	Assessment	We have the assessment data.... Now What?	K-6 session. We will go over how we can use data to set up and create small groups based on what students need. We will cover getting the data, and then what you can do with the data once you have it. Also the timing in a classroom and also activities that can be done and where to find them.	Megan Carlander	Melissa Wise	

Saturday

9:20–10:00

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
134	Grades 9–12+	Assessment	Equity Assessment and Data Collection Tools	Learn how to use teacher assessment tools to improve teaching and increase equity in the classroom. Collection tools will be provided as well as analysis examples of data from the collection tools. Teachers, mentors and administrators can use these to help improve teaching, questioning and equity.	Erin Smith		
136	Grades 6–12	Assessment	Inspiring independent students through feedback	How often do students ask, "Is this right?" or "Can you check this for me?" Come explore ideas that help create more independent problem-solvers! We'll look at how Criteria for Success and clear Feedback can focus the students on learning and focus ourselves on what we really want to teach.	Peter DeCraene		
135	Grades 3–5	Assessment	Facilitating Fact Fluency	Timed tests are used as the main measure of computational fluency for the vast majority of educators. How effective are they? Come hear what research says about this tried and failed approach and learn alternative ways to support your students in genuinely increasing their computational fluency.	Alfreida S. Jamison		
202	Grades Pre-K–2	Access and Interest	Mathematizing Your School	How can math and literacy share the center stage in your school? How can you create a school environment in which math is enjoyed and celebrated? Family Math Nights and Mathematicians of the month can be just the start in this journey! Let's start "mathematizing" your school!	Katie Hurckes		
203	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Competency Based Math to Provide Equity	We are in our 3rd year of competency based math. We are able to meet students where they are at and provide equity and access to all. In this session we will share our journey and our resources with you.	Eric Lasky	Lisa Balata	
209	Grades Pre-K–2	Innovative Teaching Strategies for Specific Content	Every Operation Tells A Story	When teachers DON'T prescribe strategies to problem situations children are able to build on what they have learned and apply it to more difficult problems. This session will investigate the early development of strategies for number operations using a variety of problem structures and literature.	Lynn Rule		
210	Grades 6–8	Access and Interest	5 Easy Shifts for Increasing Student Discourse	Have you been looking for ways to get your students talking math? This session will focus on specific strategies that will increase student status and identity in your classroom. Each strategy will be accompanied by photos and videos.	Steven Shadel		
211	Grades 6–8	Innovative Teaching Strategies for Specific Content	Math Warm-up Routines in Grades 5–8	Are you looking to add some spice to your lessons? Come learn about three math warm-up routines that will help you spiral through the middle school curriculum: Venn Diagrams, Number Talks, and Daily Data. Participants will leave with examples to use in their own classrooms on Monday.	Jennifer Talbot	Amanda Cullen	Carrie Lawton
220	Grades K–6	Innovative Teaching Strategies for Specific Content	Teaching with a Full Deck: Card Sorts	Card sorts make students do the "thing" we value most: talk. They also provide opportunities to classify, rank, sequence, and mind map while setting a natural context for argumentation. Join me for a series of math and science card sorts that will make your students reason and think critically.	Lindsey Herlehy		
221	Teacher Educators	Innovative Teaching Strategies for Specific Content	IMTE Annual Business Meeting	Please attend the annual meeting of the IL Math Teacher Educators to discuss current issues and changes at ISBE in addition to election of officers. This is a time set aside to network with the math educators in the state and share local issues and brainstorm solutions. All K-16 educators invited.	Mary T. McMahon	Adam Poetzel	
401	Grades K–12	Innovative Teaching Strategies for Specific Content	Excursion to the World of 3D Design and Printing	In the context of making, tweaking, and guided inventing, we explore the world of the 3D design and printing and further discuss the pedagogical implications for STEAM education.	Lingguo Bu		
403	Teacher Educators	Innovative Teaching Strategies for Specific Content	AP Calculus - Ditch That Lecture	See what an active calculus curriculum looks like in action. Experience first hand an activity-driven, inquiry based approach where we pose problems or situations, consider possibilities, and then ask students to investigate and explore. Gain access to over 200 activities and 500 exercises.	Jim Pardun		
405	Grades 9–12+	Access and Interest	calculus: Resetting the Stigma of AP-Math	Participants will get to see a fresh approach to AP Calculus that focuses on relationships first.	Lucas Leavenworth		

Saturday

10:10–10:50

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
134	Grades 3–5	Access and Interest	All Sorts of Success	Sorts and other open-ended group tasks are a great way to build student conceptual understanding as well as build their confidence and perseverance. Various open-ended, low floor/high ceiling tasks will be introduced as well as advice for implementing them in the elementary classroom.	Nicolette Staley		
136	Grades K–12	Access and Interest	Trauma Informed Teaching in Mathematics	Have student behaviors made you wonder "What was she thinking?" or "I never would have said that to an adult" or "He just sat there, not speaking, completely shut down." As a teacher and parent through foster care and adoption, I will share what I've learned about how trauma can impact learning.	Jeremy Babel		
135	Grades 3–5	Assessment	Facilitating Fact Fluency	Timed tests are used as the main measure of computational fluency for the vast majority of educators. How effective are they? Come hear what research says about this tried and failed approach and learn alternative ways to support your students in genuinely increasing their computational fluency.	Alfreida S. Jamison		
202	Grades 3–5	Access and Interest	Social Justice Lessons in the Elementary School	Learn how historical settings can support social justice learning in a math setting appropriate for younger students.	Cathy Kaduk	Jennifer Mundt Leimberer	
203	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Changing the conversation with lesson study	Lake View High School has embarked on a series of Lesson Study cycles to examine classroom practices, build a culture of collaboration, and to hold authentic conversations about instruction. Learn about the practice of Lesson Study, the benefits, and the impact on instruction and the department.	Stephen Cimaglia	Matthew Rosenberg	
209	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Using a Flipped Model in your AP Classroom	In a flipped classroom, students learn lessons outside of class and have class time to do problems/tasks. In this session, participants will examine the flipped classroom model, examine methods for creating instructional materials, and begin a plan for one unit of instruction in their classroom.	Jason Mead	Jill Casey	
210	Grades 6–12	Innovative Teaching Strategies for Specific Content	The Power of Learning Names	A teacher's interaction with students on day one sets the tone for the entire school year. This session relates learning of students' names to demonstrating interpersonal empathy and a growth mindset to students. It is even applicable for teachers who see more than 100 students during their day.	Carolyn Frye	Mark Frye	
211	Mathematics Coaches/Interventionists	Assessment	Data Driven Math Coaching	This panel discussion will highlight the role of assessment in math coaching. In particular, you will hear from coaches in the field with their insights into what works, what doesn't, and how to move teaching practice forward.	Annie Forest		
220	Grades K–6	Innovative Teaching Strategies for Specific Content	Teaching with a Full Deck: Card Sorts	Card sorts make students do the "thing" we value most: talk. They also provide opportunities to classify, rank, sequence, and mind map while setting a natural context for argumentation. Join me for a series of math and science card sorts that will make your students reason and think critically.	Lindsey Herlehy		
221	Teacher Educators	Innovative Teaching Strategies for Specific Content	IMTE Annual Business Meeting	Please attend the annual meeting of the IL Math Teacher Educators to discuss current issues and changes at ISBE in addition to election of officers. This is a time set aside to network with the math educators in the state and share local issues and brainstorm solutions. All K-16 educators invited.	Mary T. McMahon	Adam Poetzel	
401	Grades K–12	Innovative Teaching Strategies for Specific Content	Excursion to the World of 3D Design and Printing	In the context of making, tweaking, and guided inventing, we explore the world of the 3D design and printing and further discuss the pedagogical implications for STEAM education.	Lingguo Bu		
405	Grades 6–8	Innovative Teaching Strategies for Specific Content	Building Identity and Community through Four Norms	How can classroom norms help increase participation, risk-taking, interest, and pro-social behaviors in your class? How does an intentional focus around universal norms help build student identity and community? We will look at how a norms based classroom can improve culture and engage students.	Kenji Mori		

Saturday
11:00–11:40

ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
134	Supervisors and Administrators	Innovative Teaching Strategies for Specific Content	Student + Choice = Inspired Learners	Tired of the same old review worksheet? Increase student engagement by implementing a student choice model. Engage students in activities that require them to synthesize, analyze, summarize and reflect. When given choice, students will deepen their understanding and enjoy their learning journey.	Justine Replinger	Rachel O'Connor	
136			Teachers of Color	Navigating the dominant culture within mathematics education is different for teachers of color. This time will be devoted to reflecting in a safe space within the conference. This time will be facilitated and meant to produce "an exhale" from many of the challenges specific to teachers of color.	Esther Song		
135			Scholarship Winners	For recipients of the 2018 or 2019 ICTM Equitable Access Educator Scholarship Fund, join the leaders of ICTM to connect with your fellow awardees, reflect on your conference experience, and plan for the future.	Jackie Murawski	Matthew Foster	
202	Grades 3–5	Access and Interest	Social Justice Lessons in the Elementary School	Learn how historical settings can support social justice learning in a math setting appropriate for younger students.	Cathy Kaduk	Jennifer Mundt Leimberer	
203	Grades 6–12	Innovative Teaching Strategies for Specific Content	The algebra of invisibility	It's all about the bend. What we see and don't see through different media can be measured and predicted. This session will start with some invisibility activities and then move to measurement with lenses. We will use Snell's law and investigate the "Rochester Cloak".	George Reese	Jana Sebestik	Sammy Lindgren
209	Grades K–12	Access and Interest	Shifting from Math Talk to Math Discourse	Many times as teachers, we struggle engaging students in having Math Talks. In this session, participants will explore various instructional strategies that could assist shifting a math classroom culture from having math talks to authentic math discourse.	Asma Akhras		
210	Grades 9–12+	Access and Interest	Teaching struggle can be real + we're here to help	As younger teachers in our profession, we have reflected upon what we learned (and wish we would have learned) before entering our first years of having our own classrooms. Come join us for conversations about how to best support new(er) teachers as they join our community of life-long learners.	Tina Nocella	Gary Chu	
211	Supervisors and Administrators	Access and Interest	Eradicating "Double Dose": Equitable Intervention	Will focus on a transformational shift in thinking that led to changes in course structure and outcomes to better support below-grade level students as they access appropriate grade level content. Structure includes: SEL, Math Talks, goal setting, reading strategies, pre-teach, re-engagement.	William Brown	Jennifer Mitchell	
220	Grades 6–8	Access and Interest	Does your math problem spark joy?	Should mathematics classrooms center joy and creativity? In this session, participants will actively engage in math problems designed to spark joy. Math teachers will learn how to provide low-floor, high ceiling problems for students that require creative engagement & collaboration.	Sara Rezvi	Joe Ochiltree	
221	Grades 6–12	Access and Interest	Making Connections and Strengthening Learning	Participants will experience team building exercises geared for the whole class and for small groups within the class. We will also share strategies for creating groups and for humanizing our classrooms through these collective-building, content-related activities.	Cory Gilroy	Kayla Goldenberg	
401	Grades 6–8	STEM-ulating Activities on People and the Planet	STEM-ulating Activities on People and the Planet	Connect students' growing math and critical thinking skills to the trends shaping the world around them from changing global demographics to carbon emissions to resource management. Engage in simulations, mathematical modeling, measurement and data analysis using current events and real-world data.	Leah Nillas, Ph.D.		
403	Grades 9–12+	Access and Interest	Geometry and Gerrymandering	Next year is a major election year. Gerrymandering has plagued elections since at least the early 1800's. Recently, geometry and algebra have been used to help fight unfair districting in court. Ideas suitable for a math club, standalone unit, or for working cross-discipline with social studies.	Micah Fogel		
405	Grades 6–12	Access and Interest	Who's Hiding? Empathizing and expanding for all	Join us for an experience in empathizing with our most marginalized students. We'll reflect on who those students might be in our classes and plan on how we can better teach them.	Matt Rosenberg	Chris Nho	

		ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
Saturday	11:50–12:30	136	#N/A	#N/A	Teachers of Color	Navigating the dominant culture within mathematics education is different for teachers of color. This time will be devoted to reflecting in a safe space within the conference. This time will be facilitated and meant to produce "an exhale" from many of the challenges specific to teachers of color.	Esther Song		
		135		Scholarship Winners		In this session, we will find connections between mathematics and music that we can bring to our classrooms. Without prior knowledge of music theory, participants will explore such topics as rhythm, song composition, transposition, lyrical composition, and sound construction.	Jackie Murawski	Matthew Foster	
		202	Grades 6–12	Innovative Teaching Strategies for Specific Content	To Infinity and Beyond: the Mathematics in Music	In this session, we will find connections between mathematics and music that we can bring to our classrooms. Without prior knowledge of music theory, participants will explore such topics as rhythm, song composition, transposition, lyrical composition, and sound construction.	Martin Funk		
		203	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Tasks to engage Algebra to PreCalculus Students	Entice your students using a variety of activities to introduce new mathematical topics. During this session we will share tasks and instructional strategies we have used to engage students in algebraic content. We will share our experiences and ideas to build these activities into courses.	Valerie Tomkiel	Megan Trant	Sydney Hendricks
		209	Grades 9–12+	Innovative Teaching Strategies for Specific Content	Using tasks to push geometric understanding	In this session, participants will be introduced to several tasks that have been used for students to apply geometric reasoning to problems outside the normal depth of knowledge required by the textbook. You will be given some tasks to take and use, as well as strategies in group building.	Steven Pavlakis		
		210	Grades 6–12	Innovative Teaching Strategies for Specific Content	Creating a Laser Light Show to Teach Coordinates	Get hands-on creating a laser light show to teach coordinates. In this activity, students create a path using coordinates for a laser to follow that generates their design. A simple apparatus you can make uses mirrors and a laser projects the image on fluorescent paper for the class to see.	Joseph Muskin	Adam Poetzel	Dr. Arend van der Zande
		211		Sup/Teader Meeting			#N/A		
		220	Grades 6–8	Access and Interest	Does your math problem spark joy?	Should mathematics classrooms center joy and creativity? In this session, participants will actively engage in math problems designed to spark joy. Math teachers will learn how to provide low-floor, high ceiling problems for students that require creative engagement & collaboration.	Sara Rezvi	Joe Ochiltree	
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		405	Grades 6–12	Access and Interest	Who's Hiding? Empathizing and expanding for all	Join us for an experience in empathizing with our most marginalized students. We'll reflect on who those students might be in our classes and plan on how we can better teach them.	Matt Rosenberg	Chris Nho	
		ROOM NUMBERS	Identify the audience for your session.	With which strand does your session most closely align?	Session Title	Description of session	Lead Presenter	Co-Speaker 1	Co-Speaker 2
Saturday	12:40–1:25	135			ICTM Conference Advisory Meeting	Information Needed			