

Pocket Guide

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& EXPOSITION**

Sept. 25-28, Chicago

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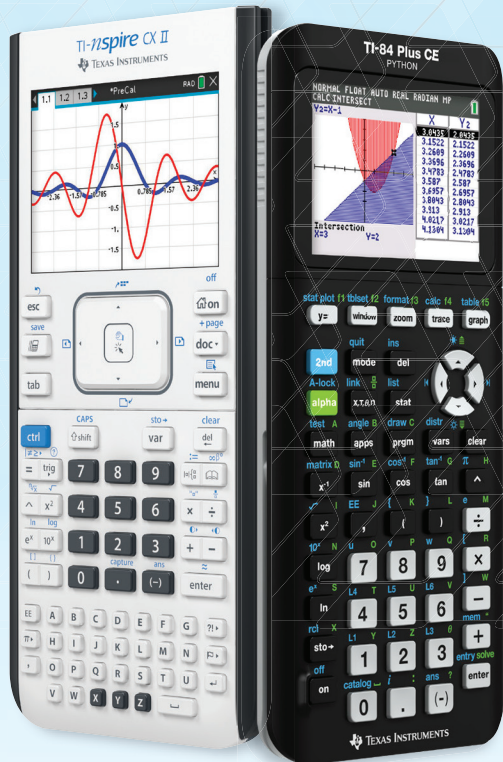
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NCTM 2024 Annual Meeting & Exposition Pocket Guide

Use this handy, pocket-sized guide as your quick reference source to view NCTM 2024 Annual Meeting & Exposition sessions and exhibiting companies.

For the most up-to-date information, including full session listings, descriptions, and exhibitor listings:



Download the Annual Meeting & Exposition mobile app.



View session listings on the Annual Meeting & Exposition website.

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Pocket Guide listings are valid as of August 20, 2024.

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KIDDOM



Wednesday, September 25, 2024

Title	Speakers	Room	Session #	Audience
8:30 AM				
Research Report: Academic Students' Time	Zafer Buber, Darrell Earnest, Yuhwa Hong	502b	R501	
Research Report: Mathematical Teacher Leaders	Cristina Runnalls, Torrey Kulow, Manqing Gao	502a	R520	
Research Report: Mathematics Spatial Reasoning	Robyn Pinilla, Dawn Woods, Nicholas Johnson, Abigail Erskine, Hillary Omoze	505a	R523	
Research Report: Projects	Karen Plaster, Douglas Harvey Clements, Julie Sarama	503A	R529	
Research Report: Student Engagement Strategies; Middle School Focus	Pede Casing, Jeremy Zekowski, Nathan Kenny	505b	R532	
Coaching Dilemmas and How to Bridge the Divide Between Research and Classroom Practices to Students Struggling in Mathematics	Deena Goldstein, Jennifer Leimberer	504bc	R142	
Number Talks & Multilingual Learners: A Mathematics-Language Partnership Advancing Equity	Jana Dean, Heather Byington	S404 BC	R191	
Elementary Prospective Teachers Engaging in Ethnomathematics Focused Mathematical Modeling Explorations	Siddhi Desai	S401 D	R250	
Real Games, Not 'Worksheets Pretending to Be Games': Designing Math Intervention for Joy	Rachel Lambert, Tomy Nguyen, Jenny Goldberg, Nicole Mapp	S401 BC	R279	
Humanizing Feedback in Mathematics Teacher Education: A Tuning Protocol Approach	Jennifer Wolfe, Dorothy White	S501	R348	
Interactive Burst Workshop #1	Temple Walkowiak, Danielle Moloney Gallagher, Jonee Wilson, Anne Wilhelm, Sarah Roberts	504a	R550	
Research Report: Fraction Intervention for Students	Leanne Ketterlin Geller, Joanne Joo, Erica Lembke, Sarah Powell, Nancy Jordan, Nancy Dyson	503B	R511	
10:00 AM				
Interactive Burst Workshop #6	Jessica Bodnar, Katherine Marin, Natasha Gerstenschlager	503A	R554	
Modify: Teacher Preparation for Fostering Equitable Mathematics Learning Across Delivery Modalities	Kimberly White	503b	R557	
Symposium: Building Robust Connections Among Measurement, Multiplication, and Calculus	Andrew Izsak, Cameron Byerley, Steven Boyce	505a	R263	
Research Report: Equity in Mathematics; Personal and Community Impact	David Rufo, Anastasia Betts, Ji-Won Son	505b	R510	
Research Report: Students and Teachers	Nara Hari Acharya, Casedy Thomas	502a	R535	
Research Report: Students' Mathematical Modeling	Johana Thomas Zapata, Amy Roth McDuffie, Rose Mary Zbiek, Gary Kaufman, Amy Brass	502b	R537	










Title	Speakers	Room	Session #	Audience
Round Table Discussions #1	Ok-Kyeong Kim, Sherri Martinie, Jennifer Tobias, Avery McNiff, Corinne Singleton, Britte Cheng, Ann Edwards, Brent Jackson, Maria Maria Castillo, Elizabeth Metts, Desiree, Harrison, Xia Li, Colleen Maas, Colleen Oppenzato, Sararose Lynch, Jeremy Lynch, Robyn Pinilla, Pratimaben Mehta, Ryan Fox, Anna Payne, Dorothy White, Peter Eley, Luz Maldonado Rodriguez, Juanita Silva	504a	R545	
10:30 AM				
Patterns of Growth: English Learners' Simultaneous Development of Concepts, Practices, and Language	Andrew Haiwen Chu	504bc	R194	
Examining Cognitive Demand of STEM Tasks Involving Mathematics and Coding of Robots	Claire Miller, AnnaMarie Conner, Anna Bloodworth, Tim Foutz, Roger Hill	S501	R317	
Promoting Student Generalizing through the Selecting, Sequencing, and Connecting Practices	Mihyun Jeon, Erik Tillema, Michael Johnson III, Jonathan Valero, Mariela Duarte, Selim Yavuz, Lori Burch	S401 D	R372	
Does It Make Sense to Teach Critical AI-Cybersecurity Practices via Mathematics — and Contrariwise?	Nicole Bannister, LeeAnn Livingston	S404 BC	R464	
11:30 AM				
Getting Published in JRME and MTE, and More	Patricio Herbst, Rose Mary Zbiek	503a	R101	
Exploring the Factors Associated with Students' Experiences in Math Classes	Sarah Gripshover, Shira Haderlein	503B	R102	
Symposium: Pursuing Equitable (Mathematics) Education at Scale: Stepping Outside Mathematics Education Research	Phi Nguyen, Cassandra Kinder, Charles Munter	505a	R384	
Research Report: Higher Level Calculus Students	Catie Corchado, William Crombie	502a	R513	
Research Report: Mathematics Education in Social Contexts	Silvanio De Andrade, Fabiola Martins, Gregory Larnell, Anthony Thames	505b	R521	
Research Report: Teachers' Professional Development	Julie James, Angela Harris, Alice Steimle, Bethany LaValley	502b	R543	

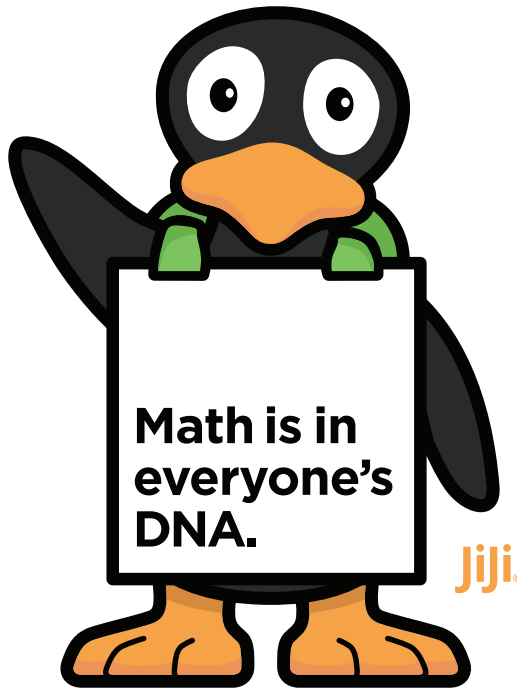
AUDIENCE KEY



Wednesday, September 25, 2024

Title	Speakers	Room	Session #	Audience
Round Table Discussions #2	Megan Staples, Kristen Bieda, Doris Fulwider, Bima Sapkota, Asenath Odondi, Bronwyn Rigsby, Jill Newton, Melissa Boston, Angel Maldonado, Treshonda Rutledge, Lisa Brooks, Sarah Bush, Jie Shi Liew, Jasmine Sourwine, Shristi Shrestha, Ji Yeong I, Kathleen Guy, Stephen Hwang, Yue Ma, Jinfa Cai, Kathleen Francis, Zachary Alstad, Teresa Lara-Meloy, Ken Rafanan, Drew Nucci, Ann Edwards, Brent Jackson	504a	R546	
1:30 PM				
Research Conference Opening Session	Ilana Horn	502B		
2:45 PM				
Beyond the Basics: Practices to Support Access to Grade-Level Mathematics for Students With Disabilities	Katherine Lewis	S404 BC	R078	
Boosting Math Equity Through Implementation and Student Experiences	Ximena Franco-Jenkins, Sara McAlister	503B	R103	
Symposium: Challenges With Building Thinking Classrooms: Action Research for Productive and Powerful Discourse	Beth Herbel Eisenmann, John Brown, Diamond Montana, Jordan Stein, Stephen Cimaglia	502b	R377	
Research Report: Educator Roles; Impact on Teaching Quality and Student Outcomes	Meghan Comstock, Ditra Backup, Amy John, Ethan Smith, Laura Desimone, Kelly Byrd, Christopher Parrish	502a	R509	
Research Report: Higher Level Calculus Students	Carol Wade, Christian Wilkens, Gerhard Sonnert, Philip Sadler, Brian Lawler, William Crombie	502b	R514	
Research Report: Students and Teachers' Thinking	Hala Ghouseini, Heather Beasley, Jeffrey Barrett, Jeongae Kang, Caleb Zuiderveen, Christy Borders, Carrie Anna Courtad	505b	R536	
Prioritizing Equitable Mathematics Instruction through Culturally Responsive Instructional Supervision	Camille Lund	S401 D	R044	
Beyond the Basics: Practices to Support Access to Grade-Level Mathematics for Students with Disabilities	Katherine Lewis	S404 BC	R142	
Using a Mapping Space to Identify, Unpack, and Rewrite Narratives: A Researcher-Teacher Partnership	Marrielle Myers, Rochelle Gutierrez, Kari Kokka, Shelby Grant	S401 BC	R146	
Instructional Nudges as Enhancements to Algebra Tasks and Teacher Practice	Mitchelle Wambua, Maria Stewart, Zandra de Araujo, Amber Candela, F. Paul Wonsavage, Faustina Baah, Samuel Otten	S501	R388	

Title	Speakers	Room	Session #	Audience
Elementary Prospective Teachers' Engaging in Ethnomathematics Focused Mathematical Modeling Explorations	Siddhi Desai	S401 D	R250	 
Leveraging Classroom Observation to Foster Ambitious and Inclusive Middle School Math Instruction	Lauren Amos	504bc	R458	 
Interactive Burst Workshop #1	Kate Roscioli, Jennifer Suh, Stephanie Calabrese	504a	R549	  
4:00 PM				
Annual Meeting Overview and Orientation	NCTM Board of Directors	N227	1	
5:30 PM				
Opening Session: Is Math Real? How Simple Questions Lead Us to Mathematics' Deepest Truths	Eugenia Cheng	Arie Crown	2	



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AUDIENCE
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Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/ Research



Coaches/ Leaders/ Teacher Educators



General Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
7:15 AM				
Annual Meeting Overview and Orientation	NCTM Board of Directors	N227	3	▲
7:30 AM				
Seventy-Third Annual Delegate Assembly		E354B	4	▲
8:00 AM				
Spotlight Student Wisdom & Learning With Thoughtful Teacher Support	Maureen Davis, Sara Moore, Thera Pearce	S401 A	5	●
Unpacking Word Problems: Using Metacognitive Modeling to Support Student Sense Making	Katie Waddell, Hallie Parten	N426a	6	●
Using Multisensory Math to Support Students With Unfinished Learning	Marlene Gundlach	503b	7	●
Get Students Talking about Geometry with the Guess My Shape Game	Peter Wiles, Rick Anderson	503a	9	●
Project-Based Learning: Building Students' Mathematical Identities in the Classroom and Community	Jean Lee, Enrique Galindo, Diane Clancy, Brittany Tinkler	N427a	10	●
Empowering Diverse Learners to Learn Pre-Algebra through the Implementation of the CRA Approach	Joseph Sencibaugh, Kaeli Berry, Milan Henline	N135	11	●
The Community Math Project	Debra Plowman	S404 A	12	●
The Role of Revision in Math Class	Courtney Ortega	Regency C	13	●
An Interdisciplinary Approach to Rigid Transformations	Emily Buhnerkempe	502a	14	●
No Tears Tiered Support: A Structure for Assessment Review & Collaboration	Ben Winchell	Hyde Park	15	●
Using Thinking Tasks to Cultivate Student Engagement	Victoria Holt	N230a	16	●
Global Mathematics: An Elective Mathematics Class for ALL Students	David Ebert	N427d	17	●
Using Interactive Dynamic Technology to Develop Understanding in Algebra II and Precalculus	Gail Burrill	502b	18	●
Building Instructional Capacity Through Campus-Based Math Teacher Mentors	Jennifer Gonzales	505b	19	●
Humanizing Systems for Math Teaching and Learning: Interconnecting Joy, Agency, and Belonging	John Drake, Jody Guarino, Joanna Hayman	S404 D	20	●
Unlocking Mathematical Potential: Integrating Equity, Executive Function, and Culturally Responsive Practices	Adam Smith, Beatrice Moore-Luchin, Melynee Naegele	Regency A	20.1	●
Math Coaching Models: How Three Large Districts Train, Staff, and Deploy Math Coaches	Nalsy Perez, Donelle Williams, Beth Wehner, Nicole Williams, John Vladovic, Maricela Robles	N229	20.2	●
Building Thinking Classrooms as Math Therapy	Peter Liljedahl, Vanessa Vakharia	E354A	21	▲
Reimagining Assessment and How We Use Information	Alex Walker, Steven Goldman	Regency D	22	▲
Rethinking Formative Assessment with Retakes & Rough Drafts	Chris Anspach	N226	23	▲

Title	Speakers	Room	Session #	Audience
Strategies to Shine a Light on Student Thinking and Voices	Grace Kelemanik, Amy Lucenta	S406 A	24	▲
The Do's and Don'ts of Adapting Math Curriculum to Meet Your Students' Needs	Sarah Johnson, Kayatanya K Henderson, Min Sun	S406B	24.1	▲
Shining a Light on Inclusive Teaching to Empower Students in Mathematics	Natalia Darling, Eugene Kramer III	N228	25	▲
Unlocking the Power of Play: How Game-Based Learning Transforms Math Learning	Heinemann Publishing	N134	25.1	●
High-Quality Instructional Materials: Creating Coherent, Equitable, and Knowledge-Building Curricula	Great Minds PBC	N139	25.2	▲
Drive Math Discourse Without Derailment With HMH's New Engaging Tools for Whole-Class Instruction	Houghton Mifflin Harcourt	N136	25.3	▲
Let's Investigate: Putting the 5 Practices for Orchestrating Productive Mathematics Discussions to Work	Savvas Learning Company	N140	25.4	●
Looking Beyond a Single Score: Noticing Student Mathematical Strengths using ALEKS Data	McGraw Hill	N137	25.5	▲
Research Report: Preparing Prospective Teachers	Rick Hudson, Gemma Mojica, Hollylyne Lee, Rachel Abel, Adrian Kuhlman	505a	R525	▲
Are We Truly Assessing Flexible Thinking: Facts vs Fluency	Rebecca Hill, Rob Nickerson	Regency B	26	●
Choral Counting: Developmentally Appropriate in Pre-K?	Becky Holden	S401 D	27	●
So What's the Scenario? Understanding All 15 Addition and Subtraction Situation Types	Cheryl Fricchione, April Wawryk	Clark	28	●
Visual Number Talks: Seeing Is Believing	Kim Webb, Arcy Alafa		29	●
Building Foundational Fluency With Fractions	Terry Wyberg, Christy Pettis	S402	30	●
Using Progressions and Learning Trajectories to Guide Intervention in Multiplication and Division	Shannon Olson	Burnham	31	●
Access-Orizing Ratio and Percentage With the Unitary Method	Cassandra Turner	N231	32	●
Instructional Routines to Motivate and Engage Students	Danielle Boggs, Anthony Jones	S501	33	●
Two Students, One Device: Boosting Student Discourse and Collaboration	Amanda Ruch, Liz Clark-Garvey, Quinn Ranahan	Adler	34	●
Learners Wear 'PRADDA': Using Computational Thinking in Math Class to Help Students Shine!	Kathryn Rich, Treshonda Rutledge, Lisa Molinaro-Krohn, Laura Maly, Christine Koerner	504bc	35	●
Building Embodied Intuition for Graphs With Smartphone Motion Games	Rebecca Vieyra, Colleen Megowan-Romanowicz	Dusable	36	●
Clothesline Math for Algebra, Geometry, and Statistics	Chris Shore	N227	37	●

AUDIENCE KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/Research


























Coaches/Leaders/Teacher Educators



General Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
Experience Using Geometry Number Talks to Build Student Understanding and Agency	Jacqueline Palmquist, Sue Ellen Voza, Scott Miller	S404 BC	38	
Networking With Local Experts to Develop Rich Math Experiences	Lynette Grypp	N230b	39	
Students Learn Calculus By Doing Calculus	Christine Larson	S403	40	
Volumes by Cross Sections and Revolution Using Models in AP Calculus	Karen Hyers	N426c	41	
Would This Get Credit? Debriefing the 2024 AP Statistics Exam	Luke Wilcox, Lindsey Gallas	S405	42	
Make It Happen	Pamela Harris	Jackson Park ABC	43	
OUT with the Old (Rules that Expire), IN with the New (Meaningful Representations & Generalizations)	Sarah Bush, Karen Karp	Grant Park ABC	44	
What's Your Sine?	Elizabeth Peyser	S401 BC	45	
Algebra for All: How Every School and Student Interested in Algebra Can Access It	Mary Beck, Lourdes Diaz, Corey Morrison, Lisette Alvarez, Michelle White	N426B	45.2	
Scaling HQIM In Large Districts: How Central Offices Support Teachers in Implementing Math Curricula	Frances Baez, Charlotte Brickhouse, Chiaie Byun-Kitayama, Nyshawana Francis-Thompson	504A	45.3	
9:30 AM				
Beyond Literature Connections: Storytelling in Math	Teresita Cuesta	Hyde Park	46	
Problem Solving With 5-, 10-, and Double 10-Frames in Kindergarten and Grade 1	Edward Mooney, Kara Story, April Davenport	503a	47	
Arithmetic With Decimals: How to Build on Students' Prior Learning	Tadanobu (Tad) Watanabe	S404 D	48	
Look-Think-Talk: A Visual Mathematics Routine for Eliciting a Multiplicity of Student Thinking	Jen Munson, Sarah Larison	N426a	49	
Understanding Contextualized Problems: Leveraging Reasoning and Discourse Structures	Cory Bennett, Mick Morgan, JadaLin Perkins	N230a	50	
Creating School-Wide Cultures of Mathematical Sense Making	Dianna Crescitelli, Funda Gonulates	505b	51	
Every Student is Brilliant (and So Are You)	Raj Shah	Regency D	52	
Everything That Can Go Right When Students Get It Wrong	Dan Meyer	E354A	53	
Helping Students Become Powerful Math Learners	Fawn Nguyen	N229	54	
Examining Status as a Way to Support Student Mathematical Identity Development	Ayanna Perry, Rosiane Lesperance	503b	55	
Strengthening Equitable Teaching Practices Through Collaborative Inquiry	Jennifer Mossgrove, Gina Wilson	502a	56	
Using ELL Teaching Strategies to Foster Equity in Math Classrooms	Bobson Wong, Larisa Bukalov	Regency A	57	
Calculus Students' Perceptions of Preparation and Reflections on Learning Experiences	Jodie Styers, Courtney Nagle	N135	58	

Title	Speakers	Room	Session #	Audience
Exploring Logarithms Through Experimentation and Play	Philip Dituri, Jack Marley-Payne	S404 A	59	
Bringing out the Math Genius in Black Children	LaMailede Assata Moore, Demaria Scaife	S406 B	60	
Measuring Implementation: Moving From Fidelity to Integrity	Shelby Danks	N226	61	
Transformative Tech: Unlocking Innovation for Active Learning and Engagement in Math	Titilola Harley, Shayla Cornick, Anurupa Ganuly, Ted Kim, Taylor Shead	N228	61.1	
Designing For Effective Math Professional Development in 4 Stages	Kyle Pearce, Jon Orr	N427A	61.2	
Leveraging Storytelling: Inspecting Teacher Identity to Create Inclusive Learning Communities	Sarah DiMaria	505a	62	
Math Education Trust Grants, Scholarships, and Awards for NCTM Members	J Michael Shaughnessy	502b	63	
Rethinking Grading in the Math Classroom	Alex Herr	S406 A	65	
Supporting Multilingual Learners: Learning Through Meaningful Context, Content, and Communication	Alison Whittington, Becky Criollo	Regency C	66	
Panel Discussion of Black Male Educators: Insights From the 1% in Mathematics Education	James O'Neal, Jr., Lou Matthews, Shane Wigan, Dr. Richard Pugh III	E354B	66.1	
Mathematical Coherence: A Long-Term Investment in Students and Teachers	Great Minds PBC	N139	66.2	
Empowering Algebraic Thinkers	Singapore Math Inc.	N136	66.3	
Math in the Wild Pt.1: In Your Classroom	Texas Instruments Incorporated	N137	66.4	
Inquiring Minds: Uncovering Math Thinking With Open Questions	Savvas Learning Company	N140	66.5	
Enhancing Learning Through Thinking Tasks With Derivita	Derivita Inc.	EW Theater	66.6	
The Future of AI-Powered Math Instruction = The New Comprehensive Core	Carnegie Learning, Inc.	N134	66.7	
Research Report: Cognitive Development: Focus on Argumentation and Virtual Reality	Mallory Brewer, Jiyoon Jung, Yuling Zhuang, Jonathan Foster, AnnaMarie Conner, Barbara Crawford, Tim Foutz	S401 A	R504	 
Research Report: Projects	Karen Plaster, Douglas Clements, Julie Sarama	N427d	R529	   
9:45 AM				
Beyond the Question of the Day	Kelly Pratte, Asmahan Jackson	Burnham	67	
Illuminate Brilliant Math Conversations by Releasing Control and Letting Your Kids Talk!	Barbara Blanke	Grant Park ABC	68	

AUDIENCE KEY



Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/Research



Coaches/Leaders/Teacher Educators



General Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
Subtraction Action: Casting Light Upon Student Knowledge	Michael Busch	N230b	69	
The Power of Identity and Culture: Empowering Student Success	Tywana Fulford, Cathy Dickson	S405	70	
Assessments For Hands-On Math That Provide Opportunities For Students' Brilliance to Shine Through	John Felling	S402	71	
Beyond the Answer: Analyzing Representations to Understand Students' Thinking	Albert Vilalta, Judith Fabrega, Laura Morera	Adler	72	
Fun with Origami: Finding Mathematics in the Art of Origami	Kyoko Johns	S401 D	73	
CANCELLED: Unveiling Insights: Examining Student Work to Move Beyond Right and Wrong	Danielle Vossekul, Carrie Carlson	N231	74	
Bringing the Outside In: How to Leverage Students' Community-Based Knowledge for Math Learning	Frederick Peck, Mary Alice Carlson	Regency B	75	
Exploring Statistical Measures of Center and Variability Through Powerful Interactive Simulations	Catherine Carter, Amanda McGarry, Kelly Findley	N426b	76	
Introducing Integers: How to Anchor Your Instruction in Understanding	Aran Glancy, Christy Pettis	Clark	77	
STEM & Social Consciousness: Engineering a Miniature Golf Course	Krystal Jones Carter	504bc	78	
A Journey into Project-Based Learning: A Teacher's Story to Engage Students to Care About Algebra 1	Anna Weltman, Rachelle Ebanks	S401 BC	79	
Get Your Think On: Exploring Tasks in a Thinking Classroom	Emily Myers	S403	80	
What's Pedagogical Content Knowledge for Mathematical Creativity? How Can It Help Find Good Tasks?	Anna Payne, Ryan Fox	N426c	81	
'Dear math' - Working With Students to Design Beautiful Math Class Experiences	Sarah Strong	Jackson Park ABC	82	
Changing How We Teach Rates of Change: An EFFL Approach	Karen Sleno		83	
Women, Woodworking, and the Wonders of Math!	Lauren Carr	Dusable	85	
Empowering Student Voices: Cultivating a Sense of Belonging and Joy in Elementary Math Classrooms	Michelle McKnight	S501	86	
Glowometry	Leigh Ann Norris, Ryan Mitchell	504a	87	
Proactive Mathematics Coaching: Leading the Journey Toward More Equitable Learning Environments	Melinda Knapp, Courtney Baker	N227	88	
New Teacher Strand Kickoff	NCTM Board of Directors	S404 BC	89	
11:00 AM				
Number Lines, Cubes, Fingers, and More! Kindergartners are Problem Solvers!	Allison Kroesch, Neet Priya Bajwa, Aggie Hatch	503b	90	
Smart Students Have 'It.' Correction: All Students Have 'It!' Empowering Student Success in Math	Thomasenia Lott Adams	E354B	91	
Seven Simple Strategies to Infuse Inquiry Into Math Class	Ben Talsma	N226	92	
Let's Talk Tasks: The Important Intersection of Cultural Relevance and Cognitive Demand	Diane DelliBovi, Abigail Ruiz	S404 A	94	

Title	Speakers	Room	Session #	Audience
Mi Lengua Mi Identidad: Culturally Sustaining Mathematics Teaching For/ With Multilingual Learners	Monica Sanchez, Patricia Gonzalez-Villasenor, Cathery Yeh, Mary Lopez	N229	95	
Accessing and Assessing Emergent Bilinguals Mathematics Knowledge	Gladis Kersaint	Regency A	96	
Centering Student Thinking: Strategies to Elicit and Build on Students' Mathematical Brilliance	Mark Ellis	N135	97	
Coach-Teacher Teams Transforming Classroom Practice Using Video and Reflections	Ken Rafanan, Teresa Lara-Meloy, Harriette Stevens, Jennifer Knudsen	502b	98	
Math & Careers in Construction: Activities, Tech, & Curriculum Connections for the Math Classroom	Kelly Remijan	Hyde Park	99	
A Look at Some FUN and AMAZING Geometry Theorems	Raymond Klein	N427d	100	
Interrogating and Innovating Our Mathematics Teaching Toward Just Civic World Building	Emma Gargroetzi, Gina Wei, Anthony Hufford, Ethan Weker	S401 A	101	
Unique Ideas + Reluctant Learners = Amazing Opportunities	Ruth Goldstraw, Karen Riley Jeffers	S404 D	102	
Using Shared Experiences to Elicit Covariational Reasoning	Yvonne Lai, Cheryl Eames, Francis Agyapong, Leilani Pai	Regency C	103	
Collaborative Coaching: Rehearsing Routines as a Tool for Learning and Growing Together	Nicora Placa	S406 B	104	
Effective Mentoring Practices to Grow the Next Generation of Mathematics Teachers	W Gary Martin	N230a	105	
A Mathematical Walk in Millennium Park: The Path to Math Begins at the Bean	Ron Lancaster	Gates 26/27	106	
Enhancing Equitable Pedagogy Through Reflective Formative Assessment Practices	Maral Karimi, Farshid Safi	505b	107	
Using Research to Inform Changes in Classroom Practice	Dave Ebert, Laura Wagenman, Christine Webb, Greta Anderson	503a	107.1	
R.E.A.L. Mathematics: Student Empowerment	Ma Bernadette Salgarino	S406 A	108	
Unpacking Whiteness in Mathematics Classrooms	Kathleen Francis	N426a	109	
We Need More Diverse Math Teachers! Changing the Narrative about Mathematics Teaching as a Career	Glenn Waddell, Jean Lee, Sarah Dyess, Lisa Amick, Brian Lawler	N228	110	
The Dynamic Middle: Balancing Procedural Fluency, Conceptual Understanding, and Application	Great Minds PBC	N139	110.1	
NBA Math Hoops – Creating the Next Math Champion	Learn Fresh	N136	110.2	
Leveraging CAS as a Tool For All Students to Explore Mathematics	Texas Instruments Incorporated	N137	110.3	
From Problems to Proficiency: A Project-Based Learning Experience in Algebra	Project Lead The Way	EW Theater	110.4	

AUDIENCE KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/ Research































Coaches/ Leaders/ Teacher Educators



General Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
Make Math Fact Mastery (and other stuff) Fun with Award-Winning Games	Semper Smart Games	N134	110.5	
Research Report: Culturally Relevant Mathematics for Teachers	Jennifer Suh, Emily Keffer, Jessica Penley, Jamie Stratford, Maureen Vora, Stephanie Calabrese, Temple Walkowiak, Jonee Wilson, Anne Wilhelm	502a	R505	  
Research Report: Early Childhood Mathematics; Geometric and Spatial Reasoning	Christina Sales, Jessica Bodnar	Regency D	R508	 
Research Report: Innovative Teaching Strategies: Early Childhood Education	Sudha Swaminathan, Nicole Wessman-Enzinger, Camilla Carpenter	N427a	R515	  
Research Report: Learning Adaptations for Teachers	Riley Stone, Jose Aguayo, Eun Mi Kim, Mary Majerus, Brooke Nash, Shaun Bates	505a	R517	  
11:30 AM				
K-2 Data Discussions: Engaging Students in Numeracy, Discourse, and Mathematical Practices	Christine Hopkinson	S401 D	111	
The Learning and Teaching with Learning Trajectories Tool: Support for Professional Learning	Julie Sarama, Douglas Clements	Jackson Park ABC	112	
Crafting Experiences to Engage & Challenge Students in K-4	Ana Maria Estela	S404 BC	113	
Does Personalized Learning Using A.I. Lead to an Increased Understanding of Fractions?	Kenneth Holman	N426b	114	
Illuminating Student Identity Through Mathematical Modeling in Elementary	Gerard Lewis	Burnham	115	
Beyond Posters: Middle School Math Projects That Promote Diverse Outcomes and Creative Expression	Liz Caffrey	N231	116	
Classroom Disruptions as Student Agency: A Discourse Analysis of Math Intervention Classroom Talk	Camille Griffin, Erica Mason	S402	117	
Noticing and Wondering to Launch Student Learning	Wade Wisler	Dusable	118	
Black Male Mathematics Teachers: Recruit, Support, and Retain a Diverse Teacher Workforce	Shane Wiggan	N230b	118.1	
Discovering and Cultivating Mathematical Identity: Math Autobiography for Teachers and Students	Andrew Volk	S403	119	
Rate of Change Resilience: Turning Errors Into Educational Opportunities	Taylor Bainter, Zandra de Araujo, José De Leon Alejandro	Grant Park ABC	120	
High School Students' Achievement Goal Profiles and How They Relate to Their Attitudes Toward Math	Mic Fenech	N227	121	
Critical Thinking & Problem Solving Above and Beyond the 'Algebra Sandwich'	Daniel Roeder	N426c	122	
President Series: Innovating Inclusion: Leveraging AI to Improve Your Culturally and Historically Responsive Instruction	Jill Drake, Andrea Crenshaw	Regency B	124	
Using Maker Activities to Explore and Deepen Preservice Elementary Teachers' Content Knowledge	Jennifer Smith	Adler	125	
Building the Number Line in a Bag: A Focus on Closure of Sets and Connections to Domain and Range	Amanda Meiners	504bc	126	

Title	Speakers	Room	Session #	Audience
Math Can Help Us Understand the World: Analyzing Math From the 2020 Presidential Election	Blair Izard, Kristal Cloft	S405	127	▲
The Annual Mathematical Book Awards: The Best of PreK-12 Literature and Mathematics	J Michael Shaughnessy	S401 BC	128	▲
Exploring NCTM's Resources for the Elementary Classroom	Ashley Schmidt, Ebony McKinney	S501	128.1	▲
Using AI to Build High-Quality and Inclusive Lesson Plans	Drew Nucci, Min Sun, Rodney Perez	Clark	129	▲
ChatGPT-Generated Culturally Relevant Mathematical Tasks: Intensity or Ameliorate Biases?	Minsung Kwon		131	▲
Centering Student Voice and Discourse in Primary Classrooms	Zachary Champagne	E354A	131.1	●
12:00 PM				
Poster Session #1	Angela Walmsley, George Roy, Kristin Harbour, Jen Monastra, Sara Weinberg, Babette Moeller, Teresa Duncan, Jason Schoeneberger, John Hitchcock, Matt McLeod, Bilge Cerezci, Stacy Potes, Rachel Lambert, Avery McNiff, Shristi Shrestha, Ji Yeong I, Janet Engle, Kathryn Behling, Erin O'Halloran, Robert Richardson, Angela Thompson, Susie Morrissey, OZGUL KARTAL, Gorjana Popovic, Cal Armstrong, Tara Gossman, Parastoo Zareie, Kanushri Wadhwa, Victoria Barron, Matthew Duncan, Brielle Campos, Scott McDaniel, Narges Sareh, Reuben Asempapa	Exhibit Hall B1	R547	● ● ● ● ● ● ● ▲
1:00 PM				
Centering Student Voice and Discourse in Primary Classrooms	Zachary Champagne	E354A	131.1	●
A Primer on Developing Harmony Between Music Therapy and Math Education	Dorothy Schaettle, Amy Ray	Regency C	132	●
Nurturing Scholars' Identities: Developing Paramount Tasks From Mathematical Stories	Christa Jackson, Cynthia Taylor, Kelley Buchheister	Hyde Park	133	●
Subtraction is More Than Just Take Away	Stefanie Livers	503b	134	●
Hands-On Division with Fractions for Student Understanding	James Olsen	502b	135	●
Multisensory Routines That Promote Fluency and Exploration for Students with Learning Disabilities	Libby Miles	Regency D	136	●
Reasoning Routines That Develop Individual and Collective Brilliance and Agency Through Discourse	Amy Lucenta, Grace Kelemanik	S406 B	137	●

AUDIENCE KEY



Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/ Research

























Coaches/ Leaders/ Teacher Educators



General Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
Artificial Intelligence in Mathematics Education: Using Machine Learning to Support Learning	Alden Edson, Taren Going, Sunyoung Park, Ashley Fabry	N229	138	
Assessments as a Dialogue: Reframing Assessments to Foster Student-teacher Discourse	Caitlin Webster	S404 D	139	
Do We Have to Work Together? How Equitable Learning Communities Are Good for Students and Learning	Annie Forest	505b	140	
(Counter) Productive Practices for Using Student Thinking	Laura Van Zoest, Shari Stockero, Keith Leatham, Blake Peterson	N230a	141	
Incorporating Patty Paper Activities to Facilitate Discovery of Geometric Concepts	David Forbes	502a	142	
How Do I Privilege Student Thinking Through Questioning?	Edward Nolan	N135	143	
Problem Solving and Problem Posing: Shining Light on Student's Mathematical Brilliance	Trena Wilkerson, Margeaux Smith, Heather Walker, Courtney Holland, Brentley Bendewald	Regency A	144	
Supporting Learners With Effective Feedback	Holly Anthony	N427a	145	
Curricular Supports for Fostering Implementation of the Eight Effective Teaching Practices	Courtney Nagle, Amy Sanfrotello	N426a	146	
Noticing Middle Schoolers Mathematical Arguments During Class Through Video Enhanced Coaching	Teresa Lara-Meloy, Ken Rafanan, Harriette Stevens, Jennifer Knudsen	S404 A	147	
Building Positive Math Identity: The Students' Perspectives	Jennifer Lawler, Ian Lawler	503a	148	
Creating Discipline-Rich End Products for Project Based Learning That Draw on Students' Communities	Sheila Orr, Sarah DiMaria, Carlee Madis	505a	149	
Formative Assessment: Eliciting Evidence, Providing Feedback, Adjusting Understanding, and Instruction	Ann Gaffney	N226	150	
President Address: Reimagining High School Mathematics	Kevin Dykema	S406 A	151	
President Series: Harnessing Mathematical Action and Conveyance Tools to Create and Support Learning Communities	Enrique Galindo	N228	152	
The Six Secrets To Highly Effective Mathematics Instruction	Timothy Kanold	E354B	153	
Mathematical Problem Solving [Grades 3 to 5]	Shing Lee Publishers Pte Ltd	N134	153.1	
Make It Sticky: Knowledge Building in the Mathematics Classroom	Great Minds PBC	N139	153.2	
Rational Functions: Zeros, Holes, Vertical Asymptotes, and End Behavior	Texas Instruments Incorporated	N137	153.3	
Building Student Grit: A Conversation with Dr. India White	Savvas Learning Company	N140	153.4	
Beyond the Page: Uniting Technology, Identity, and Community for Student Growth	Kiddom	EW Theater	153.5	
From Theory To Practice: Integrating Building Thinking Classrooms with MidSchoolMath	MidSchoolMath	N136	153.6	
Research Report: Algebra Mathematics for Students	Mitchelle Wambua	N427d	R502	

Title	Speakers	Room	Session #	Audience
Elevating Early Numeracy: Learning Progressions and Math Centers in Action	Kim Graham	Regency B	154	
Young Learners at Work and Play: Math Talk, Counting Collections, and Centers to Construct Number Sense	Carrie Cutler, Dawn Woods, Toni Galassini, Aidong Zhang	S405	155	
Young Mathematicians: STEAM Skills for Success	Lindsey Herlehy, Cassandra Armstrong	N426b	156	
A Student Reflection Tool For Building and Sustaining Equitable Math Learning Communities	Annie Sussman, Marta Garcia	N230b	157	
Fluency Isn't 40 Problems	John SanGiovanni	N227	158	
My Four Favorite Tasks for Promoting Problem Solving in the Elementary Grades	Patrick Vennebush	N231	159	
What's on the Menu? A Data-Driven Approach to Implementing and Improving Differentiated Instruction	Kyle Schultz	504a	160	
Why Do They Do That? Illuminating Models in Multiplication and Division.	Rob Nickerson, Sara Delano Moore	Adler	161	
A Fishy Way to Connect Sampling and Proportional Relationships	Shelley Kriegler, Cynthia Raff, Mark Goldstein	504bc	162	
Meeting Students Where They Are: How to Productively Adapt Instructional Material	Douglas Van Dine, Jose Aguayo, Riley Stone	Dusable	163	
Project-Based Learning: Less Fluff and More Stuff	Tan Huynh	N426c	164	
Using Contexts and Models to Promote Students' Meaningful Sense Making of Ratios and Rates	David Webb, Frederick Peck, Raymond Johnson	Grant Park ABC	165	
Implementing Asset-Based Language and Routines in Your Secondary Classroom	Mike Steele, Joleigh Honey	S501	166	
Cantilever Beams and Little Dogs: A Lateral (6-12) Curriculum extension using a STEM Experiment	Janet Sharp, Mark Sharp	S401 BC	167	
March Madness: A Data Driven Exploration	Arty Smith	Clark	168	
Problem-Based Learning Through Applications: How Should My Community Fill Our Swimming Pool?	Tena Roepke	S404 BC	169	
Using Technology to Explore Real-World Mathematics and Financial Education	Kathryn Dawson, Michael Houston, Lindsay Gold	Burnham	169.1	
Thin-Slicing: Using Building Thinking Classrooms to Trust Students and Reimagine Direct Instruction	Emily Kerwin, Heather Clarke, Leigh Ann Madison	Jackson Park ABC	170	
Building Capacity in PLCs: Using Teaching Rehearsals to Support Tier 1 Instruction	Justin Burris		171	
Redesigning Math Class: Using Design Thinking to Create New Realities	Kara Imm	S401 D	173	
Using Math Games and Math Journals K-5 to Capture Student's Brilliance	Jane Felling	S403	174	
Solving the 'Last Hallway Problem': How Leaders Can Support Innovative Math Instruction for All	Jeff Lisciandrello, Maya Dennis, Gurkan Kose	S402	174.1	

 AUDIENCE
KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12















Higher Education


 Linking
Research
& Practice/
Research

 Coaches/
Leaders/
Teacher
Educators

 General
Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
2:30 PM				
Building Essential Numeracy Skills for Lifelong Math Success	Joe Elliot	N226	175	
Families as Funds of Knowledge: Creating Tasks That Connect Math to the Students' World	Claire Engelhard, Cathery Yeh, Bryan Street, Glenn Ford, Michelle Heiser	S406 A	176	
Finding the Through Line: Intentionally Building Meaningful Connections Through Task Sequence	Graham Fletcher	E354A	177	
How Math Activities Can Engage All Students, Including Those That Struggle	David Feikes, Martin Briggs, Mary Cigan, Lisa Alessandri	N135	178	
Making Sense of Math: Strategies That Stick	Katie Madigan, Jason Cvach	Regen-cyD	179	
Practical Teaching Ideas to Support and Empower ELLs in Mathematics	Cathy Marks Krpan	N229	180	
What About Division? Building Reasoning with Structures and Strategies for Division	Dina Mendola	N230a	181	
Rebuilding Thinking Classrooms: Effective Adjustments, Additions, and Data From Thriving Practitioners	Adrienne Baytops Paul, Jodi Meunier	Regen-cyA	182	
Let's Get Real with Math by Provoking Transformational Thinking	Rick Hudson, Joe Champion, Amy Brass, Dionne Cross Francis, Andrew Gatza	Regen-cyC	182.1	
Stepping Out So Students Can Step Up: Increasing Opportunities for Student Agency	Kathleen Pitvorec	505a	183	
The Battles of Assessments: Managing the Continuum of Assessments for Student Achievement	Craig Baker, Cora Popescu	502a	184	
Switching Up Your Assessments: Three Simple Strategies to Make Your Assessments More Effective	Paige Sheehan	N427a	185	
Teaching Mathematics Through the 5E Learning Cycle: A Lesson on Euler's Line	Yujiro Fujiwara, Matthew Wolodzko, Naomi Koschmeder	S401 A	186	
Frontloading Function Concepts to Teach AP Precalculus More Effectively	Daniel Kennedy	503a	187	
Telling My Story with Data: Using Student Data to Develop Critical Statistical Literacy	Lauren Baucom	N228	188	
The Greatest Equation Ever Written	James Carpenter	502b	189	
Be a Goldfish: 5 Key Takeaways for Math Education Inspired by Ted Lasso	Brooke Powers	S404 A	190	
Multipliers: Making Math Leaders With No Money	Carrie DeNote	Hyde Park	191	
Student Work as Data: Continuous Improvement Through Data-Driven Mathematics PLCs	Stacy Marple, Kendra Cupps	505b	192	
Feedback > Grades	Derek Fialkiewicz	S404 D	193	
Illuminating Students' Brilliance: MTLT Wants to Hear from You!	Angela Barlow	503b	194	
The Magic is in the Margins: UDL Math	Rachel Lambert	E354B	195	
Using Questioning to Discover Students' TRU Potential	Niloufar Zandnia, Gavin Creaden	N426a	196	

Title	Speakers	Room	Session #	Audience
Are You Ready to Put Your AP Precalculus Students on the Fast Track to a 5?	National Geographic Learning Cengage	N134	196.1	
Show Me Your Way: Connecting Student Thinking During Problem Solving	Great Minds PBC	N139	196.2	
Positioning K-5 Students at the Center of Their Own Learning: The Power of Inquiry-Based Teaching with Dr. Jennifer Lemp and Sue O'Connell	Heinemann Publishing	N136	196.3	
Effective Teaching Practices to Cultivate Grit in the Math Classroom	Savvas Learning Company	N140	196.4	
Funexpected: Developing Rich Math Competency in the Early Childhood Classroom With Purposeful Play	Funexpected LTD	EW Theater	196.5	
Conceptualize It! With Calculus for the AP® Course 4e	BFW Publishers	N137	196.6	
Research Report: Key Issues	Glenn Waddell, Robert Quinn, Bibek Acharya, Alison Brockhouse, Rachel Ruggirello, Maia Elkana, Carmen Stayton	S406 B	R516	
Interactive Burst Workshop #3	Jennifer Malue, Emily McDonald	N427d	R551	
2:45 PM				
Advance Early Multilingual Learners' Intuitive Number Sense with Interactive Simulations	Amanda McGarry, Sylvia Celedón-Pattichis, Catherine Carter	Grant Park ABC	197	
Enhancing the "M" in STEM: Purposeful Integration of Mathematics in Early Childhood Engineering	Brian Mowry	N426c	198	
Shine On: Cultivating Student Brilliance in Problem Solving	Andrea Wood, Denise McDowell	Dusable	199	
Gatekeeper No More: Teaching Fact Fluency from an Equity, Access, and Sensemaking Stance	Tracy Zager	S501	199.1	
Expanding Fraction Knowledge to Uncover Student Understanding and Promote Productive Struggle.	Denise Porter, Toi Smith	N230b	200	
Listen In: Deepening Students' Mathematical Sense Making by Attending to Teachers' Listening	Allison Hintz, Kersti Tyson, Andrea English	Jackson Park ABC	201	
Using Block Coding and Finch Robots to Develop Justification Around Properties of Geometric Shapes	Brooke Krejci, Kim McCoy-Parker	S401 BC	202	
Utilizing Subitizing: It's NOT Just for Our Youngest Students!	Robin Moore	504bc	203	
Creating a Math Pact Through Collaborative Planning	Amy Shah, JaDawn Wagstaff, Mary Pittman	N426b	204	
Equity and Excellence Framework for Teaching Mathematics	Fawnda Norman, Lesa Covington Clarkson	Regency B	205	
Using Mathematics to Design a Prototype Action Figure	George Roy, Matthew Cunningham, Ken Rafanan	N231	207	

 AUDIENCE
KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



























Higher Education


 Linking Research & Practice/
Research

 Coaches/
Leaders/
Teacher
Educators


General Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
Capturing The Rain, Quantifying Irrigation	Douglas Weber, Katherine Vela, Michelle Parslow, Kathy Cabe Trundle, Rita Hagevik	Clark	208	
Facilitating Productive Struggle Through Escape Rooms	Courtney Scott, Karen Kelsall-Lagola, Kathleen Myung	S404 BC	209	
Instructional Structure, Where Students Thrive!	Travis Lemon	S401 D	210	
'When Am I Ever Going To Use This?' How Math-4Science Can Inspire Your Students With Answers!	Justine Henning, Becky Walzer, Tysheina Robertson		211	
Mathematizing Light to Make Art: An Integrated STEM Activity	Hanan Alyami	S402	212	
Problem Solving and Problem Posing to Illuminate All Voices in your Classroom Community	Armando Martinez-Cruz, Jose Contreras, Phil Turner	Adler	213	
Think Aloud Can Illuminate Students' Brilliance: Lessons Learned From SAT Validity Research	Dona Carling, Michael Gosche	S405	214	
Mathematical Modeling: Making Math Reimagined, Revitalized, and Relevant for High School Students	Mike Steele, Dewey Gottlieb	504A	214.1	
AIM-TRU - An Innovative PD Model Using Classroom Video-Case Studies Focused on the TRU Framework	David Jabon, Doug O'Roark	N227	215	
Math for All: Using Universal Design to Help Students Shine!	Naomi Church	Burnham	216	
Moving From Surviving to Thriving in a K-5 Mathematics Classroom: Supports for New Teachers	Susan Katt, Latrenda Knighten, John SanGiovanni, Georgina Rivera	S403AB	216.1	
4:00 PM				
Math Storytelling in PreK-Grade 2 Classrooms	Janice Novakowski	N226	217	
Assessment Interviews: Moving Beyond Timed Tests	Susan Loveless	N427d	218	
Multiplication Fact Fluency: A School-Wide Solution	Juli Dixon	N228	219	
Planning a Sports Clinic: Contexts that Make Measures of Center Matter!	Jennifer Suh, Gretchen Maxwell	Hyde Park	220	
Let's Talk Trash: Engage Students in the Story of the Three R's	Laurie Boswell	505a	221	
Math Enrichment For All, By All	Douglas O'Roark	N229	222	
Unlocking Mathematical Practice through Literacy: Enhancing Standards for Deeper Understanding	Cristina Hernandez	S401	222.1	
Illuminate the Brilliance of Students Who Struggle! Reimagine Assessment With Mastery Based Grading	Juliana Tapper	505b	224	
Math Games for Secondary Learners	John Golden	S404 D	225	
Yes, All Students Can Learn Calculus in Algebra!	Robin Gapinski, Scott Knapp	502a	226	
Linear Algebra in High School	Gerald Bilodeau, Gilbert Strang	N135	227	
The Data Science Revolution	Dale Leibforth	502b	228	
Transform Your Classroom: Unleash the Power of PBL and Innovative Assessments	Alexander Lash	RegencyC	229	

Title	Speakers	Room	Session #	Audience
Expanding Math Pathways	Josh Recio, Connie Richardson	503B	229.1	
Leveraging Mathematics Teacher Leaders to Transform Learning Environments for Teachers and Students	Nicole Rigelman, Chandra Lewis, Patrice Woods	S406 A	231	
Registered Apprenticeship for Mathematics Teacher Talent	Kevin Berkopes, Addie Angelov	N427a	232	
High-Quality Math Instruction Starts With YOU!	Kristin Kanaskie Grotewold, Valerie Jansonius	503a	233	
How We Grade in a Thinking Classroom	Timothy Brzezinski	Regency A	234	
Is It or Not? Deepening and Democratizing Mathematics Through Definitions	Christopher Danielson	E354A	235	
Refuting a Stereotype: Stories of Successful Taiwanese Adults Who Struggled With Mathematics	Angela Thompson	S406 B	236	
Being Multilingual is a Superpower! MLLs and Eureka Math2	Great Minds PBC	N139	236.1	
Teacher Leadership Opportunities Within the Federal Government	Presidential Awards for Excellence in Mathematics	N136	236.2	
AP Calculus Panel Symposium	BFW Publishers	N134	236.3	
Game On: Modernizing Math & Unlocking Potential	Legends of Learning	N137	236.4	
Research Report: Professional Development: Enhancing Teaching Strategies	Toni Smith, Melinda Griffin, Rachel Garrett, Melissa Yisak, Alison Castro-Superfine, Benjamin Superfine, Craig DeVoto, John Garrett Barnes	S404 A	R528	
Research Report: Supporting Struggling Learners	Sarah Powell, Tao Wang, Mei Sun, Jinfa Cai	N426a	R538	
Research Report: Supporting Students' Productive Struggle	Ramey Uriarte, Angela Crawford, Ashley Jairam	N230a	R539	
4:30 PM				
Inspire Curiosity and Wonder in Mathematics With Argumentation	Chepina Rumsey, Jody Guarino	Jackson Park ABC	237	
Introducing Data Science to Preschoolers With Hands-on, Physical, and Digital Activities	Jessica Young, Ashley Lewis Presser, Emily Braham, Regan Vidiksis	S401 BC	238	
Augmented Reality: Integrating Real-World into Math Classroom	Eunhye Flavin, Matthew Flavin, Sunghwan Hwang	N426b	239	
Problem Solving: Choosing Contexts to Highlight Students' Brilliance	Heather Crawford-Ferre, Mike Pacheco	Burnham	240	
Redefining the Denominator: When "Count the Pieces" Isn't Enough	Eric Partridge	S405	241	
Using Student Work and Tasks to Build Pedagogical Content Knowledge	Faith McDuffie, Sarah Britton	S404 BC	242	

AUDIENCE KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12

















Higher Education


 Linking Research & Practice/
Research

 Coaches/
Leaders/
Teacher
Educators



General Interest

Thursday, September 26, 2024

Title	Speakers	Room	Session #	Audience
Implementing the Five Practices to Orchestrate Productive Mathematical Discussions: Pre-Service Teachers' Field Experiences	Deependra Budhathoki, Bhesh Mainali	S402	243	
Illuminating Thinking Using Desmos Student Response Overlay	Meghan Sleezer	Clark	245	
Poetic Mathematicians: Using Creative Writing to Promote Students' Voices and Understanding	Ayanna Perry	Adler	245.1	
Co-Crafting in Calculus	Megan Alexander	RegencyB	246	
A Look at How Fraction Intervention Outcomes Differ for Students With and Without IEPs	Megyn Martin, Erica Lembke	504bc	247	
Writing Into Belonging: Integrated Writing in a Mathematics for Elementary Teachers Course	Barbara Johnson	Grant Park ABC	248	
Creating a Culture of Learning Through Self-Assessment and Reflection	Emily Smith	S401 D	249	
Culture and Identity in Three Act Tasks	Janaki Nagarajan	S403	250	
Data-Based Learning and Differentiated Assessment	Meaghan Volek	N231	251	
Empowering High School Students' Math Journey in Out of School Spaces	Olubukola Leonard	S501	252	
Engaging Elementary Students in Notice and Wonder	Jayme Lorenz	N426c	253	
Supporting Mathematics Anxious Students in the Classroom	Stephanie Quan-Lorey	Dusable	255	
What We Do When Fairness Fails Us	Toya Frank, Zandra de Araujo, Maria Zavala	N227	256	
5:15 PM				
Designing Affinity Group Meet-Up		See App for locations	256.1	



Booth 713



Booth 813



Visit us at booth 1128 to learn and share what's working in math instruction around the country.

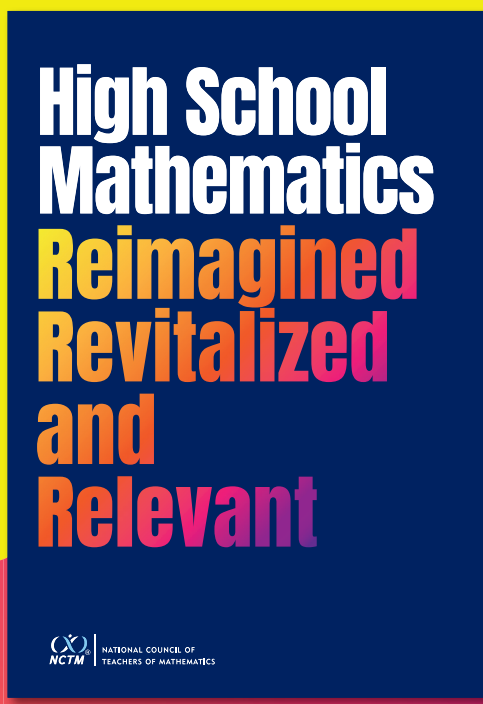
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The NEW 3Rs of High School Mathematics

High School Mathematics Reimagined, Revitalized, and Relevant is not just a publication; it is a call to action. It provides a thoughtful and practical guide for educators, school district leaders, and policymakers to rethink and restructure high school mathematics. By centering the student experience and emphasizing the development of mathematical and statistical processes, this work aims to make math not only relevant but essential for every student.

Many students still lack equitable access to the experiences that will empower them to navigate a world increasingly driven by data and technology. To address this, a team of mathematics teachers, leaders, and educational organizations, including NCTM, NCSM: Leadership in Mathematics Education, and the Association of State Supervisors of Mathematics (ASSM), came together to create this bold new vision for high school math education.

Shape the future of high school mathematics education, where every student can find purpose and possibility in the power of math.


























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NATIONAL COUNCIL OF
TEACHERS OF MATHEMATICS

Friday, September 27, 2024

Title	Speakers	Room	Session #	Audience
8:00 AM				
Math Fluency: More Than Just Memorization	Jamie Garner	S406 B	257	
Using Digital Activities and Resources to Engage Preschoolers and Preschool Teachers	Kristen Reed, Ashley Lewis Presser, Jessica Young	503b	258	
Why Kindergarten Math Matters: Laying the Foundations for Elementary Math Learning and Beyond	C Kyle Falting, Dana Moyer	505b	259	
Filling Gaps Using a Formative Cycle	Jacqueline Wedner	502a	260	
Questioning, Revising, Backtracking: Essentials of Brilliance in Mathematical Argument	Susan Jo Russell, Deborah Schifter	N228	261	
Teaching Through Investigations to Cultivate Brilliance and Foster Equity	Susan O'Connell	505a	262	
Disrupting Injustice: Navigating a Silencing Culture in Math Classrooms	Esther Song, Lateefah Id-Deen, Kendrick Savage, Tashana Howse	Regency D	263	
Listening for Meaning in Math: Teacher and Student Voices in Curriculum Reform for Cultural Relevance	Jessica Davidson, Adriana Colom Cruz, Denise Parham-Gantt	Hyde Park	264	
Rethinking Intervention: Helping All Kids Catch Up and Move Forward Through Instructional Coherence	Jamica Craig	N135	265	
Using CGI and Graphic Organizers to Teach Problem Solving to Neurodivergent Students	Jennifer Bond, Joseph Sencibaugh	S401 A	266	
Accommodations, Not Modifications for Equitable Learning Opportunities	Daniel Ilaria	S404 A	267	
Engaged ² - Ongoing Math and Library Collaboration at the Secondary Level	Sarah Zehnder, Amanda Hurley	N229	268	
Using Argument-Driven Inquiry to Catalyze Change in Algebra	Victor Sampson	N426a	269	
Building Student Agency in AP Precalc: Why Depth of Understanding Matters and How to Facilitate It	Brent Ferguson	N230a	270	
Posing and Solving Problems With GeoGebra	Jose Contreras, Armando Martinez-Cruz, Phil Turner	N427a	271	
Women of the 1939 Putnam: Leveraging Technology for Student Research and Mathematical Engagement	Benjamin Dickman	Regency A	272	
Shifting Perceptions of What Young Children Understand about Math: Strength-Based Math Assessment	Andrea Barraugh	Regency C	273	
Unlocking Student Brilliance: Fostering Creativity in Math Education	Brandon Smith	502b	274	
It's a Marathon, Not a Sprint: Teaching for Long-Term Learning in K-12 Mathematics Classrooms	Michael Flynn	E354A	275	
Nurturing Mathematical Identities Through Shared Journeys and Empathetic Storytelling	Jaclyn Murawska, Katherine Arrington, Liza Bondurant, Jacqueline Palmquist, Mike Steele, MJ Palmquist, Sean Nank, Keiran Nank	S406 A	276	
Supporting Teachers in Empowering Student Agency and Positive Discourse in Mathematics	Dr. Rachael Labrecque, Ruth Smith	N226	277	
Take These 10 Steps to Empower Your Students!	Marian Small	S404 D	278	
Developing Visualization in the Mathematics Classroom [Grades Pre-K to 2]	Shing Lee Publishers Pte Ltd	N134	278.1	

Title	Speakers	Room	Session #	Audience
Jumping Jacks and Bike Tours: Patterns of Change Over Time With the New Connected Mathematics® 4	Lab-Aids	N139	278.2	
Getting Your Students Back to Grade Level: Intensive Intervention for the Core Classroom	Houghton Mifflin Harcourt	N136	278.3	
Nurturing Mathematical identities: Empowering K-8 Learners with Imagine IM	Imagine Learning	N137	278.4	
Play-Based Learning Strategies to Enhance Numeracy	Math & Movement	N140	278.5	
Research Report: Fraction Intervention for Students	Leanne Ketterlin Geller, Erica Lembke, Sarah Powell, Joanne Joo, Nancy Jordan, Nancy Dyson	N427d	R511	
Research Report: Mathematics Student Teachers	Natalia Yanez Castillo, Samantha Morris	503a	R524	
Joyful and Confident Math: A Future With Full Engagement	Jonathan Dueck, Naomi Reeley	504a	279	
Learning to Experience Wonder in Mathematics as Teachers	Jody Guarino, Chepina Rumsey	Jackson Park ABC	280	
Moving Beyond Counting On and Counting Back for Addition and Subtraction	Marria Carrington	Burnham	281	
Unlocking Math Concepts: Using Manipulatives With Purpose and Ease in K-2	Jane Hannon	N426c	282	
Basic Fact Fluency Interventions That Make Sense	Jennifer Bay-Williams	N227	283	
Empowering Students and Teachers With a Meaningful Path to Lasting Multiplication Fact Fluency	Gina Kling, Kathryn Kemp, Aubree Folkert, Megan Hayduk	Regency B	284	
Follow the Map to Discovering Student Brilliance: A Responsive Evaluation Process for Student Work	Julien Corven	Adler	285	
Showcasing Young Mathematician's Brilliance With Number Lines	Andrea Kotowski, Thera Pearce	S403	286	
Tasks That Celebrate the Brilliance of Students' (Mis)Takes	Nicole Wessman-Enzinger	N231	287	
Changing Instructional Practice to Create Anti-Racist Classrooms and Strong Mathematics Identities	Mary Leer, Dawoun Jyung, Dionne Beckford Jeffrey	S401 D	288	
From Concrete to Confidence: Hands-On Math Strategies for Effortless Engagement	Leanne Luttrell	Dusable	289	
Problem Solving Together Enhances the Ability to Analyze Student Work Through an Asset-Based Lens	Amanda Reinsburrow, Valerie Klein, Annie Fetter	Grant Park ABC	290	
The Butterfly is Beautiful But Not Brilliant: Proportional Reasoning Beyond Cross-Multiply and Divide	Jennifer Kornell	N230b	291	
Integrating Mathematical Modeling for All Students to Shine	Kayla Blyman, Benjamin Galluzzo	N426b	292	
Strategies for Making Group Work More Effective	Connie Horgan, Amy Herman	S404 BC	294	

AUDIENCE KEY



Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



























Higher Education


 Linking Research & Practice/
Research

 Coaches/
Leaders/
Teacher
Educators


General Interest

Friday, September 27, 2024

























Title	Speakers	Room	Session #	Audience
Our Math Roots: Exploring Ethnomathematics and the Non-European History of Math in Secondary Content	Rebecca Guarino, Benjamin Rubenstein, Carol Kinney		295	
Visualizing Queerness: Using LGBTQ+ Data Visualizations in High School Math	Anita Sundrani, Laura Shelton	S401 BC	296	
Data Science & Statistical Reasoning: Making Math Reimagined, Revitalized and Relevant for HS	Lya Snell, Angela Walmsley	S405	296.1	
360 Degree Math: Equity, Engagement, Achievement for ALL	Sean Kavanaugh	S501	297	
Stop, Drop, and Just Teach! Embedding Assessment Into Your Daily Teaching Practice	Melissa Wilke	S402	298	
Transcend Awareness of Social Justice, Action! This Is an Interactive, Participant Learning Session	Gloria Brown Brooks, Ma Bernadette Salgarino	Clark	299	
9:30 AM				
Detracking in the Early Grades: Examining Equitable Instructional Practices in K-2 Mathematics	Daniel Edelen	N135	300	
Play in Math = Serious Learning	Becky Criollo, Debbie Leslie, Cheryl Moran	Hyde Park	301	
Tapping Into Children's Natural Curiosity: Precursor Math Concepts to Counting Collections	Danielle Robinson, Claire Madden, Krista Beal, Lakesha King, Alicia Socha	505b	302	
Get Ready to Use the Number Line to Master Fractions!	Paul Cholmsky	N229	303	
CANCELLED: Self-Directed Learners: The Power of Learner Agency in the Mathematics Classroom	Tamera Musiowsky-Borneman	S404 D	304	
Lessons Learned: Using 1-on-1 Assessments to Drive Interventions and Make Students' Thinking Visible	Sararose Lynch, Terri Eller, Olivia Evans, Jadyn Flick, Stephanie Thompson	N426a	304.1	
Fostering the Development of Positive Mathematics Identity	Lidia Gonzalez	503a	305	
Stimulating Students Thinking About Simulation: Investigating Chance Events With CODAP	Rick Hudson, Evan Rebar	N226	306	
Strategies for Eliciting and Using Evidence of Student Thinking	Danielle Curran	Regency A	307	
Demystifying Elementary Math f or Secondary Teachers	Shelby Strong	503b	308	
Examining How We Use Technology in Teaching Mathematics	Joshua Hertel, Craig Cullen	N228	309	
Let's Get Serious: Turn Equations Into Playthings With DragginMath	Steven Abell	N427a	310	
Co-Taught Math Instruction: So Much More Than Just Two Teachers	Steven Korney, Johnathan Taylor	Regency C	311	
Create Assessments with Desmos!	Julie Reulbach	S401 A	312	
Cultivating Inclusive Math Communities Through Real and Relevant Project-Based Learning	Kristen Moore	S404 A	313	
Sharing the Journey: From Pockets of Excellence to Collective Efficacy for Ambitious Instruction	DeAnn Huinker, Melissa Hedges, Sara Cruz, Rhode Márquez-Feliciano	S406 A	314	
The Role of Neuroscience in Math Education	Ki Karou	502b	315	
Elevating Student Voice in Math Classrooms: Solving with Students	Claire Riddell, Sherri Allman, Sergio Luya, Twanna Rowe	S404 D	315.1	

Title	Speakers	Room	Session #	Audience
BBA: Teach and Think Like a BLACK Woman: Learning How to Engage and Connect With Marginalized Students	Christina Lincoln-Moore, Tashana Howse, Pamela Seda, India White, Shelly Jones	E354A	316	▲
NCTM Business Meeting	Kevin Dykema	N427d	317	▲
Using a Public Record to Anchor Joint Sense Making of Mathematics	Keith Leatham, Blake Peterson, Benjamin Freeburn, Sini Graff, Laura Van Zoest	N230a	318	▲
President Series: Using In-Class Projects to Improve Student Learning and Engagement	George Hurlburt	S406 B	319	▲
Scoring the 2024 AP Calculus Exam	National Geographic Learning Cengage	N134	319.1	◆
Elevate Instruction w/ Responsive Math Workshop Approaches for Differentiated Inquiry-Based Learning	Heinemann Publishing	N139	319.2	▲
THINKing with Dimensions Math	Singapore Math Inc.	N136	319.3	◆
Math in the Wild Pt.2: Outside Your Classroom	Texas Instruments Incorporated	N137	319.4	◆
Beyond Boundaries: Breaking Through Modern-Day Math Barriers	Kiddom	N140	319.5	▲
Learning with Fire: The Transformative Power of Productive Struggle	Derivita Inc.	EW Theater	319.6	▲
Research Report: Making Sense of Mathematics	Karie Brown, Darolyn A. Flagg, Belinda Edwards	502a	R518	◆ ◆ ◆
Research Report: Teachers' Curricula Materials	Katie Waddell, Lorraine Males, Kelsey Quaisley	505a	R542	◆ ◆ ◆
Interactive Burst Workshop #4	Gina Kling, Kate Kline, Camilla Carpenter, Nicole Wessman-Enzinger	Regency D	R552	◆ ◆
9:45 AM				
Classroom Strategies for PreK-5 Severely Struggling Math Students	Laura Drechsel, Sandra Elliott, Carolyn Stadlman	S401 BC	320	◆
Instructional Routines in Mathematics: Building a Bridge Between Classroom Assessment and Teaching	Rebeca Itzkowich, Jie-Qi Chen, Ivette Guadarrama, Anita Evans	Regency B	321	◆
The Blank Page: Students Representations of Mathematical Thinking	Judith Fabrega, Albert Vilalta, Mequè Edo	S501	322	◆
Developing Intuition About Shapes Using Dynamic Tools	Annie Fetter	Jackson Park ABC	323	◆
Don't Judge. Be Curious.	Michael Everson, Ruby Norland	N230b	324	◆
Engage in a Task Using an Equity Framework to Plan for Explicit Small Group Instruction	Stephanie Sigmon	Burnham	325	◆
It CAN Be All Fun and Games: Build a Community of Learners Through a Game of the Month Program	Julien Meyer, Stacy Shaener	504a	326	◆
Big Beautiful Problems in a Thinking Classroom: A Ten-Year Journey	Alicia Burdess, Jessie Shirley		327	◆

AUDIENCE KEY

- Pre-K to 2
- 3 to 5
- 6 to 8
- 8 to 10
- 10 to 12
- Higher Education
- Linking Research & Practice/ Research
- Coaches/ Leaders/ Teacher Educators
- General Interest

Friday, September 27, 2024

Title	Speakers	Room	Session #	Audience
How Physical Therapy Helped Students See Math From a Whole New Angle	Jeanine Haistings, Susan Gay, Jason Rucker	504bc	328	
Instructional Routines to Nurture Opportunities for All Students	Timesha Brooks, Tori Cole	Clark	329	
Using Purposely Ambiguous Patterns to Encourage Classroom Discourse	Kate Degner	S403	330	
Connecting the Dots to Discover the Equation of a Circle	Kim Krusen McComas	N426c	331	
Intro to Story Tables: The Best Algebraic Reasoning Tool You've Never Heard Of	Shira Helft	N231	332	
Using Investigations and Manipulatives to Engage Students for Success in Geometry	Erin Schneider, Jessica Thiel	S405	333	
Count Me In!	Tami Martin, Roger Day, John Carter	Adler	334	
Cruising Through Precalculus: A Project-Based Approach to Teaching Modeling and Vocabulary	Thomas Leisten	S404 BC	335	
Making Graph Theory Come Alive!	Ashley Loftis	N426b	336	
Warm Calling: A Strategy to Illuminate Students' Brilliance	Lisa Hennessey	Grant Park ABC	337	
Building Math Fact Fluency Through Games	Shanteau Allen	S402	338	
Supporting a Students Mathematics Self-Concept through Task Exploration	Bethany Furr	Dusable	340	
11:00 AM				
Building Community in the Elementary Math Classroom: Parents, Co-Educators, and Teachers	Judy Storeygard, Lillian Pinet, Charleen Heard, Chenetha Lockett	N229	341	
Building Elementary Students' Multiplicative Reasoning Through Arrays	Neet Priya Bajwa, Jennifer Tobias	505a	342	
Alternative Algorithmic Techniques for Improving Procedural Fluency and Enriching Adaptive Reasoning	Joseph Sencibaugh, Jennifer Bond	N135	343	
Using Student Work Samples as Mentor Texts: Elevating Children's Voices in Mathematics Classrooms	Courtney Flessner, Ryan Flessner	N426a	344	
You're Not the Only Expert in the Room! Empower Learners Through Math Discourse	Mona Iehl	S401 A	345	
It's All About the Students: Using Reassessment to Improve Student Learning	Kristin Weller	505b	346	
Seeing Students' Thinking in a Project-Based, Problem-Based Classroom	David Dai, Hailee Leouis	S404 D	347	
Five Reasons Why Math Stations in High School Are So Powerful!	Barbara Beske	503b	348	
Helping English Language Learners Bridge the Language Barrier in Mathematics	Matthew Winsor	503a	349	
Inclusive Visions of Doing Math	Gina Wilson, Joshua Thurbee	Regency D	350	
Listen Up! Hearing Our Students Mathematical Thinking	Scott Miller	N427a	351	
Co-Creating Classroom Communities	Mark Russo	N230a	352	

Title	Speakers	Room	Session #	Audience
Humanizing Mathematics Through Cultivating Joy	Jennifer Dao	502b	353	
Inquiry Approaches, Exploration, and the Value of Student Errors in Math	Gregory Macklem	Hyde Park	354	
Empowering Educators: Illuminating the Journey to Joy and Efficacy	Jennifer Ricks, Megan Holmstrom	S406 B	355	
Empowering Teachers by Identifying Inequity in the Classroom Using Effective Evidence Collection	John Hayes, Ashley Boyd, Erin Lehmann	N226	356	
Centering Student Thinking to Drive Instruction	Sara Van Der Werf	Regency A	357	
Four Steps to Fix Math Education	Robert Kaplinsky	E354A	358	
Imagining AI as a Passive and Active Assistant in the Math Classroom: Building a Strong Partnership	Janet Tomlinson, Lisa Stueve	N427d	359	
Iris M. Carl Equity Address: Pedagogical Barriers and Possibilities for Advancing Intersectional Justice in Mathematics Education	Luis Leyva	S406 A	360	
Embracing the Powerful Role of Failure in Math Class	Vanessa Vakharia	N228	361	
Tackling Tangential Student Contributions	Blake Peterson, Shari Stockero, Keith Leatham, Laura Van Zoest	S404 A	362	
Learning Fractions in think! Mathematics [Grades 3 to 5]	Shing Lee Publishers Pte Ltd	N134	362.1	
Math That Motivates With Amplify Desmos Math	Amplify Education	N139	362.2	
NBA Math Hoops: Creating the Next Math Champion - Duplicate	Learn Fresh	N136	362.3	
Playing with Quadratics in Standard Form and Other Curiosities	Texas Instruments Incorporated	N137	362.4	
Advanced Algebra With Financial Applications: The Perfect 3rd/4th Year Math Course for All Students	National Geographic Learning Cengage	EW Theater	362.5	
Harnessing the Power of Tech for Children's Learning at Home	Funexpected LTD	N140	362.6	
Interactive Burst Workshop #5	Hyunyi Jung, Chonika Coleman-King, Taryrn Brown, John Grab, Frances Harper, Takeshia Pierre, Ji-Won Son, Reuben Asempapa, Xenia Hadjioannou, Jane Wilburne	502a	R553	
11:30 AM				
Counting and Grouping Strategies in Prekindergarten Problem Solving	Beth MacDonald, Cassandra Mattoon, Jessica Wargo	N230b	363	
It Is All CONNECTED! Number Sense and Computational Fluency in Early Math	Tiffany Johnson	Regency B	364	
Making Math Part of Children's Everyday Play	Shakesha Thompson, Kristen Reed, Jessica Young	N231	365	

AUDIENCE KEY



Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/ Research





















Coaches/ Leaders/ Teacher Educators



General Interest

Friday, September 27, 2024

Title	Speakers	Room	Session #	Audience
Using Storytelling to Support Emergent Bilingual and Monolingual Students' Composing of Shapes	Laura Bofferding, Brenda Sarmiento-Quezada, Yi Zhu, Dafne Zanelli, Guili Zhang		366	
Exploring Powerful Mathematicians Who Changed the World 3-5 Picture Books	Eva Thanheiser, Naomi Jessup, Christa Jackson	Jackson Park ABC	367	
Get Talking! Meaningful Discourse in the Math Classroom	Melissa Kings	Clark	369	
Super Wrong, Kinda Right: Learning to be Creatively Incorrect	Samuel Otten, Faustina Anakwah, Mitchelle Wambua, Zandra de Araujo, Amber Candela	N227	370	
Primes, Palindromes, Patterns and Proof!	Robert Mann	S401 BC	371	
Productive Struggle in Algebra Classes	Kara Teehan	S403	372	
CANCELLED: Graph Theory and Research Experience: A Non-traditional, Advanced but Accessible Elective Course	Tamar Avineri	Dusable	373	
Proofs and Justifications: Formal and Informal Proofs in Secondary Mathematics	Oscar Chavez	Adler	374	
Optimizing the Impact of Early Experiences for Future Math Teachers Through Active Engagement	Megan Balong, Ashley Jorgensen	S501	375	
What Can We Learn from Corporate America? Adapting the Google Ventures "Sprint" Model for Schools	Steven Goldman, Alex Walker	N426c	376	
Designing for Differentiation: Progressive Assessments and Structural Choices That Support It	Dustin Smith	504bc	377	
Engaging Secondary Students in Notice and Wonder	Jayne Lorenz	S404 BC	378	
Exploring NCTM's Resources for the Middle School Classroom	Maggie Lee McHugh, Mario Valdez	S401 D	379	
Foster Math Identity Through Authentic Financial Applications	Jack Marley-Payne, Philip Dituri, Andrew Davidson	N426b	380	
High Five! Strategies to Increase Family Engagement in K-12 Schools	Brea Ratliff, K Elizabeth Hammonds, Kathryn Early	Grant Park ABC	381	
The Fluency Formula: Multisensory Techniques + A Systematic Strategic Approach = Facts for Life	McKenzi Hurick	504a	382	
What Is a Sandwich? What Is a Trapezoid?	Drew Corley	S405	383	
How Can We Help Children Develop Computational Skills through Problem Solving?	Cheng-Yao Lin, Jie Shi Liew	S402 AB	383.1	

Title	Speakers	Room	Session #	Audience
12:00 PM				
Poster Session #2	Bethany Noblitt, Nicholas Fortune, Debra Carney, Chris Rasmussen, Lynda Wynn, Jessica De Silva, Jennifer Malue, Jennifer Malue, Jennifer Malue, Jaepil Han, Stephen Hwang, Faith Muirhead, Jinfa Cai, Hazel Altindis, Monika Trivedi, Robert Ronau, Parastoo Zareie, Emily McDonald, Lynn Hodge, Joy Bertling, Amanda Galbraith, Rick Anderson, Peter Wiles, Johanna Massey, Shanta McVay, Bich Do, Judith Rhodes, Justin Robicheaux, Suzanne Navo, Bich Do, Judith Rhodes, Justin Robicheaux, Suzanne Navo, Anjali Deshpande, Stacey Zimmerman, Maria Eloisa (Lisa) Nuguid, Signe Kastberg, Laura Bofferding, Mary Ann Huntley, Catherine Dennis, Miriam Amit, Fouze Abu Qouder, Kyunghoon Son, Madeline Keyes, Lillie R. Albert, Jelena Byers, Emily McDonald	Exhibit Hall B1	R548	
1:00 PM				
Empowering Teachers: An Approach to Promoting Equity in Kindergarten Readiness Assessment	Rebeca Itzkowich, Anita Evans, Ivette Guadarrama, Jie-Qi Chen	505a	384	
Highlighting Children As Doers of Math: Centering Classroom Discussions on Student Brilliance	Beth Schefelker, DeAnn Huinker	Regency A	385	
Embracing the Multiplication and Long Division Algorithms to Develop Number Sense	Leidy Luciani	N226	386	
Whose Knowledge, Whose Experience, Whose Math?: Pathways to Culturally Responsive Math Tasks	Bryan Street, Cathery Yeh, Glenn Ford, Melissa Woodbridge	S406 B	388	
Let Me Show You (CRA)! The Area Model and More	Mark Schmit	505b	389	
Leveraging Strengths-Based Feedback to Foster the Development of Positive Mathematical Identities	Meghan Hyatt, Erica Willing, Shannon Miller	Hyde Park	390	
How to Do Less Work AND Get Better Results: Try Using the AFTL Method	Ivan Cheng, Brooke Shapiro	502b	391	
Implementing Formative Assessment Practices in the Math Classroom: What Does It Really Look Like?	Joanne Philhower	S401 A	392	
Bite-Sized Routines for Social Justice	Michelle Lo	S404	392.1	
Building Global Relevant High School Math Units and Lessons	Taylor Ohlstrom	N230a	393	

 AUDIENCE
KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12































 Higher
Education

 Linking
Research
&Practice/
Research

 Coaches/
Leaders/
Teacher
Educators

 General
Interest

Friday, September 27, 2024

Title	Speakers	Room	Session #	Audience
Building Our Brilliance: Teaching as an Act of Self Love	Vanessa Cerrahoglu, Shelbi Cole, Amber Walker, Stevie Fuller	E354A	394	
The New Math for Grading (and How We've Been Doing It Wrong This Whole Time)	Paul Buckley	Regency C	395	
Developing and Supporting Elementary Mathematics Specialists That Cultivate Collective Brilliance	Nicole Rigelman, Susan Swars Auslander	503a	396	
Putting Street Data to Work: Collaborative Conversations That Ignite Classroom Actions	Melissa Hedges, Joseph Giera, Claire Madden, Danielle Robinson	503b	397	
High-Quality Instructional Materials as a Lever for Equity	Stephanie Barnett, Amanda Bikowski	S404 A	398	
Increasing Opportunity to Learn by Removing Limitations on the Mathematics Students Encounter	Zalman Usiskin	N229	399	
President-Elect Address: One Size Does NOT Fit All: Promoting Equitable Access for All Students	Latrenda Knighten	S406 A	400	
The First Day of School	Howard Hua	N228	401	
Unlocking Brilliance: Elevating Student Ideas in Math Class	Mario Valdez	N135	402	
Math Unleashed: Empowering K-12 Learning with Dynamic Digital Tools	Dr. Adam Phyll	N427d	402.1	
Solving Mysteries and Enlarging Shapes: Proportional Reasoning With the New Connected Mathematics	Lab-Aids	N139	402.2	
Problem-Based Learning Strategies and Ways to Celebrate Student Thinking	Amplify Education	N136	402.3	
There's Beauty in Modeling With Mathematics	Texas Instruments Incorporated	N137	402.4	
Rich Mathematics Curricula Brought to You by CPM, Your Educational Solution!	CPM Educational	N140	402.5	
Learn Statistics by Doing Statistics With Statistics and Probability With Applications	BFW Publishers	N134	402.6	
Pedagogical Structures that Let Students Lead the Learning	CKingEducation	EW Theater	402.7	
Research Report: Culturally Relevant Mathematics for Teachers	Irina Lyublinskaya, Sandra Okita, Erica Walker, Casedy Thomas	N427a	R506	  
Research Report: Higher Level Calculus for Students	Rasha Abadir, Carolyn Maher, Alexandra Cuadra	Regency D	R512	 
Research Report: Mathematical Reasoning: Practical and Problem-Solving Approaches	Andrew McAlindon, Sarah Cartmell	N426a	R519	  
Measure, Count, and Compare for Authentic Reasons	Jennifer Leimberer, Ronald Barbercheck	S401 D	404	
Picture Books as Windows, Mirrors, and Sliding Glass Doors to Children's Mathematical Brilliance	Toni Galassini, Carrie Cutler, Dawn Woods	Dusable	405	
There Is SO Much Out There: Selecting and Adapting Math Activities From Online Teacher Marketplaces	Emily Shapiro, Lara Dick	Dusable	406	
Using Observations and Learning Progressions as Formative Assessment	Shelly Scheafer	S403	407	
Bringing It All Together: Orchestrating Discussions	Deena Goldstein, Jenesis Byrne, Farah Mahimwalla	504bc	408	

Title	Speakers	Room	Session #	Audience
Reimagining Story Problems Using Diverse Children's Picture Books	Laura Kennedy, Briana Bancroft, Gwen Murray	N227	409	
CANCELLED: Subtraction Doesn't Mean Take Away. Multiply Doesn't Mean Memorize. Let's Do the Math!	Jason Holloway	S404 BC	410	
What Is the Hidden Question? A Workshop for Posing Two-Step Additive Word Problems	Michelle Kwok, Micayla Gooden, Miriam Sanders	S402	411	
Growing Green: A Mathematical Blueprint for School Garden Planning	Michelle Parslow, Katherine Vela, Douglas Weber, Kathy Cabe Trundle, Rita Hagevik	504a	412	
Guided Exploration: A Student-Centered Approach to Teaching for Understanding	Jessica Reyes	Regency B	413	
Meet, Play, Make, Move: How to Inspire Joyful and Memorable Mathematics in the Middle Grades	Ralph Pantozzi	Jackson Park ABC	414	
Empowering Math Minds: How to Enhance Your Math Teaching Practices Through Open-Ended Questioning	Kimberly Hansel	N426b	415	
PolyPuzzle: An Interactive, Whole-Group Problem Solving Activity for Teaching Geometry	Matthew Roscoe, Christian López Mercado	S401 BC	416	
Standards-Based Grading in Math Classes: Unveiling Brilliance and Advancing Student Learning.	Sean Nank	Grant Park ABC	417	
Math Narrative Change: Research-based Tools to Help Improve Students' Math Learning	Amy Simon, Michaela Leslie-Rule	Burnham	417.1	
Using Digital Photos and Math Software to Focus on Active Learning, Engagement and Collaboration	Ron Lancaster	Adler	418	
Reimagining Mathematics Activities to Increase Black Students' Engagement	Anthony Thames, Carl Oliver, Gregory Benoit, Kyndall Brown	S405	418.1	
Creating a Sense of Wonder Through Lab-Based Calculus	Ryan Severance	S501	419	
Let's Get Physical With Mathematics	Curtis Brown, Dan Ilaria	N230b	420	
Using Data and Modeling to Take a Deep Dive into the Patterns of Daylight	Scott Knapp, Robin Gapinski	Clark	421	
Moving Forward: Accelerating Students' Learning in Math	Joseph Lamb, McKenzi Hurick	N426c	422	
Using a Geometry Puzzle to Support Students' Levels of Geometric Thought	Enrique Ortiz	N138	424	
Math Festivals: Providing Families With Opportunities to Enjoy the Fun of Doing Math Together	Greisy Winicki Landman	S404 BC	424.1	
2:30 PM				
Can We Support Every Child On Their Own Personal Journey Learning Mathematics?	SallySue Dolphin, Kathleen Richardson	N229	425	
How Young Children Solve Problems From Kindergarten Through Grade 2	Amanda Cullen, Sierra Strawder, Jennifer Talbot	505b	426	
Blending Online and Offline Learning Environments to Teach Fraction Concepts	Faith Peddie, Mangai Neelavannan, Emily Reichbach	502b	427	

AUDIENCE KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12










Higher Education


 Linking Research & Practice/
Research

 Coaches/
Leaders/
Teacher
Educators


General Interest

Friday, September 27, 2024

Title	Speakers	Room	Session #	Audience
Bridging Mentors, Pre-Service Teachers, and the 5 Practices	Ashley Schmidt	N230a	428	
Creating Choices for Students to Opt in to Mathematical Reasoning	Zandra de Araujo, Amber Candela	N228	429	
Building Mathematical Thinkers	Julie Merrill	502a	430	
What is Productive Struggle in Middle Grades Math? Examples From the Classroom	Michele Carney, Ramey Uriarte, Joe Champion, Emily Leckie	Regency C	431	
Getting off on the Right Foot: Launching Cognitively Demanding Tasks	Mark Creager	503b	432	
Is Equivalence Helping or Harming Your Students' Learning?	Mary Wiltjer, Sheila Hardin	N427a	433	
Wait, What Are We Talking About? (Re)focusing Students During Whole-Class Discussion	Shari Stockero, Keith Leatham, Blake Peterson, Laura Van Zoest	S406 B	434	
Engage, Explore, Excel: The Power of Classroom Technology in Student Learning	Johnathan Taylor, Lisa Davis	N226	435	
From 2% to 42%: How Compelling Lesson Contexts Boosted AP Stats Pass Rates at a Title I School	Dashiell Young-Saver	Regency D	436	
Invigorating High School Mathematics: Practical Guidance for Long Overdue Transformation	Eric Milou	Regency A	437	
Crosscutting Concepts for High School Mathematics and Mathematical Processes I	Kristin Cunningham, Kandi Hunter, Kristi Martin	Hyde Park	437.1	
Building Pedagogical Content Knowledge Through Reflective Coaching in Middle School	Peter Coe	N135	438	
Creating the Capacity for Change: Structures for Empowering Elementary Teachers	Melissa Pearson, Susan Totaro	505a	439	
Dreaming of Math: From Undocumented Immigrant to Mathematics Professor	Pamela Harris	E354A	440	
How to Increase Student Engagement and Encourage Deeper Thinking About Math	Brittany Hege	N426a	441	
Strategies to Illuminate Multilingual Learners' Mathematical Brilliance	Jennifer Hylemon	S404 D	442	
The Brain Science of Building a Positive Math Identity	Liesl McConchie	S406 A	443	
Linear or Nonlinear? Linear Functions and Bridge-Building With the New Connected Mathematics	Lab-Aids	N139	443.1	
From the White Board to the White House: Presidential Awardees Share Their Favorite STEM Lessons	Presidential Awards for Excellence in Mathematics	N136	443.2	
Boosting AP Statistics Exam Achievement With The Practice of Statistics!	BFW Publishers	N134	443.3	
Symposium: Impacts of Teaching Mathematics through Problem Posing on Teacher Change and Student Learning	Jinfa Cai, Faith Muirhead, Stephen Hwang, Amy Brown, Jaepil Han, Kara Jackson	S404 A	R343	 
Research Report: Culturally Relevant Mathematics for Teachers	Katie Gleason	N427d	R507	 
Research Report: Student Understanding; Early Concepts of Functions and Numbers	Susanne Strachota, Mathias Lopez, Barbara Brizuela, Elizabeth Cutter-Lin	503a	R534	  

Title	Speakers	Room	Session #	Audience
2:45 PM				
'But What Can They Do?': Nurturing Student Growth Through an Asset-Based Lens	Leigh Diebold, Carrie Burdon, Deborrah Black	S402	444	
Noticing and Building Upon Student Brilliance Using the Trends in Student Thinking Data Tool	Mary Duden, Nicole Rigelman	Dusable	445	
Posing Purposeful Questions and Building Mathematical Discussions Go Hand in Hand	Jose Franco, Katie Salguero	S501	446	
Class Openers, Games, and Number Talks to Foster Numeric, Algebraic, and Geometric Thinking	David Poras	Grant Park ABC	447	
Collaborative Brilliance Cultivated Through Interdependent Tasks	Sarah Gayman, Kelsey Nelson	S401 BC	448	
From Basics to Brilliance: Exploring Addition and Subtraction Progressions for Grades 3-5	Haley Galyean	504bc	449	
CANCELLED: Student Adaptive Pedagogy: Using Conceptual Learning Progressions to Find Our Students' Brilliance	Dennis DeBay	Clark	450	
The Role of Equity and Math Commentators in Lesson Study: Empowering Math Learners for a Just Future	Harold Asturias, Susie Hakansson, Kyndall Brown, Brent Jackson, Joan Easterdar	N230b	451	
Algebraic Ideas: Explore in Connection with Arithmetic	Bhesh Mainali, Deependra Budhathoki	S404 BC	452	
Empowering Mathematical Growth: Fostering Positive Math Identities in Students	Amanda Brenner, Heidi Bromley, Charity Spencer, Jessica Green	Burnham	453	
Empowering Mathematics Student Identities Through Data	Rejoice Akapame	N426c	454	
Storylines That Inspire Meaningful Mathematical Connections	Shannon McCaw, Bernadette Salgarino	S403	455	
Constructing Connections Through Personal Mandalas	Kristine Dahlquist	Regency B	456	
Creating a Community of Learners Using Experiments and Applications of Exponential Functions	Amy Herman, Connie Horgan	N231	457	
TikTok in Math Class? Why Not! Adding Authenticity to an Exponential Functions Lesson	Anna Weltman	504a	458	
What Can We Do With Just a Compass and a Straightedge?	Ana Gonzalez Enriquez	S405	459	
Functions in the Real World: Engaging and Assessing Student Learning Through Project-Based Assessments	Jeannette Newman, David Postlethwait, Meghan Ragghianti	Adler	460	
Illuminating Students' Brilliance Through Mathematical Modeling	Aline Abassian, Farshid Safi	Jackson Park ABC	461	
Moving Beyond Interesting Problems to Mathematical Investigations of Real-World Phenomena	Victor Sampson	N426b	462	
Understanding and Building STEM Identities: Illuminating Educator and Student Brilliance	Joanie Funderburk, Katherine Arrington, Joleigh Honey	N227	464	
New Teacher Celebration	NCTM Board of Directors	S401 D	465	

AUDIENCE KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12
























Higher Education


 Linking Research & Practice/
Research

 Coaches/
Leaders/
Teacher
Educators


General Interest

Friday, September 27, 2024

Title	Speakers	Room	Session #	Audience
4:00 PM				
CANCELLED: Mi lengua y mi identidad cultural: Towards a strong math connection	Patricia Gonzalez-Villasenor, Monica Sanchez, Cathery Yeh, Mary Lopez	S406 A	466	
Rethinking Rounding: From Rhymes to Reasoning With Conceptual Place Value	Naomi Dupre-Edelman	N229	467	
Teaching Geometry With the Underground Railroad	Chris Haren	502b	468	
Algebra: The Journey	David Feikes, William Walker, Natalie McGathe, Sarah Cordell, Brandon Sorge	503b	469	
Assessing the “What” and “How” of Algebra for the Future	Elizabeth Phillips, Alden Edson, Yvonne Slanger-Grant	N135	470	
The Productive Struggle is Real: Dare Students to Do the Thinking	Rachel Veloz	S404 D	471	
Creating a Standards-Based Learning and Grading Math Course	Donya Mosher	503a	472	
RAFT the Math Rapids	Byung-In Seo, Mogalatjane Matabane	Hyde Park	473	
Using Python to Increase Interest and Understanding in Algebra 1	Mary ODonnell	N427d	474	
Dude Perfect: The Calculus of Model Rockets	Mahmoud Harding	N230a	475	
The What and Why of Radians	Craig Cullen, Lawrence Ssebagala, Oscar Chavez	Regency C	476	
VNAGing In The Mathematics Classroom	Jessica Stillman, Anthony Record	S404 A	477	
Financial Literacy: Where Mathematics and Money Meet!	Michael Houston, Lindsay Gold, John Ashurst, Kathryn Dawson	505b	477.1	
Boots on the Ground: A District-Wide Mission to Deploy Strategies for Math Achievement	Carolyn Merritt, Jennifer Braitman, Thomasenia Lott Adams, Juli Dixon, Jamie Mitchell	N228	478	
Building Leadership Capacity Through High-Quality Implementation	Kelly Georgius, Lane Swedberg, Kristin Kasten, Michael Coon	N226	479	
Creating Mathematical Discourse to Impact All Students	Nigel Nisbet	505a	480	
Hanging Math Out to Dry: Using Clothesline Math to Build Number Sense	Kristen Acosta	Regency A	481	
Metacognition: Fostering Student Growth Through Reflection	Skip Tyler	502a	482	
President Series: Uncovering the Brilliance of All Students Using the ICUCARE Framework and CRCD Math Task Rubric	Shelley Jones, Pamela Seda	E354B	483	
Using Mindfulness in the Math Classroom	Joshuah Thurbee	N426a	484	
How Students Take Risks to Participate in Active Learning: Exploring the Role of Identity and Safety	James Sheldon, Susan Courey	S401 A	485	
Fundraising and Pizza Claims: Ratios and Equivalent Ratios With the New Connected Mathematics	Lab-Aids	N139	485.1	

Title	Speakers	Room	Session #	Audience
The Predictive Power of Math Teaching and Learning AND What Research Says and Doesn't Say about it	Douglas Harvey Clements, Julia Sarama	S406A	R350	
Research Report: Analyzing Mathematics Instruction	Brian Moon, Elizabeth Brooks Hayden, Cara Menges, Megan Leavens, Erik Reiting, Ismail Zembat, Seyit Ali Yasa	N427a	R503	
Research Report: Self-Efficacy for Students	Douglas Weber, Katherine Vela, Kathy Cabe Trundle, Rita Hagevik, Michelle Parslow, Enrique Ortiz, Haiyan Bai	Regency D	R530	
4:30 PM				
Differentiation Doesn't Always Mean Different	Kristin Harbour, Stefanie Livers	Dusable	486	
Enriching Preschoolers Spatial Orientation Learning with Hands-On and Digital Experiences	Ashley Lewis Presser, Regan Vidiksis, Emily Braham	S405	487	
You Can't Be What You Can't See: How Representation Reveals Powerful Mathematicians In Classrooms	Susan Harter, Kris McPherson	S401 BC	488	
Five Tips for Fostering a Math Community	Anne Kelley McGuire, Nichole Falkowski	S403	489	
How to Teach Fractions Using These Four Visual Tools	Jessica Mao	S404 BC	490	
'Show Me' Projects for Middle School Math	Katherine Grunow	Adler	491	
Interactive Data Visualization: Real-Time Sensors and Lesson Plans for Hands-On Learning	Ho-Feng Chueh, Kuan-Chun Chen	N230b	492	
Cultivating Collective Brilliance and Self-Efficacy in a Community-Based Tutoring Program	Jialu Fan, Lesa Clarkson	Burnham	493	
Turning Direct Instruction Into Student-Centered Learning	John Halmi, Ruth Goldstraw	S401 D	494	
Exploring What-If Thinking With Desmos	S Leigh Nataro	Clark	495	
Unlearning Negative Mathematics Identities in a Mathematics Content Course for Pre-Service Teachers	Gurpreet Sahmbi	N227	497	
Using Specifications Grading to Enhance Pre-Service Elementary Teachers' Learning	Monica Bliss	Regency B	498	
Exploring NCTM's Resources for the High School Classroom	Joseph Bolz	N426b	499	
Math Talk: We Can Explain It!	Dawn Pilotti	Jackson Park ABC	500	
5:30 PM				
Teacher Appreciation Reception		E354 Foyer/Terrace	501A	
Ignite! We'll Enlighten You, and We'll Make It Quick	Kristopher Childs, Janaki Nagarajan, George Roy, Corey Morrison, Cathery Yeh, Linda Sheffield, Shelby Strong, Farshid Safi, Christine King	E354A	501B	

AUDIENCE KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/ Research




















































Coaches/ Leaders/ Teacher Educators



General Interest

Saturday, September 28, 2024

Title	Speakers	Room	Session #	Audience
8:00 AM				
Building a Community of Primary Mathematicians	Lori Price	S401 A	502	
Neighborhood Explorers: Building and Strengthening Community Partnerships Through Nature and Math	Zahraa Aljebori	S404 A	503	
All Kids are Math Kids: Creating Inclusive Math Classrooms	Shaka Phillips	N229	504	
Creating Mathematical Expertise, Engagement and Innovation: Questions May Be the Answer	Linda Sheffield	505b	505	
Empowering Success for Diverse Learners: Accelerating Math Learning With Coherent IEP Goals	Brett Barnes	N427d	506	
Examining the Culture of the Mathematics Classroom	Ann Wallace	N226	507	
Much Ado About Two-Column Proof: Let's Talk About Proof Formats!	Michelle Cirillo, Amanda Seiwell, Casey Griffin, Patricio Herbst	S406 B	508	
I Never Learned That! An Analysis of Missed Mathematical Content Due to Acceleration	Yeidi Diaz Reyes, Julia Keith	S404 D	508.1	
Beyond the Walls of Your Classroom: Using Blended Instruction to Impact ALL Students	Lisa Davis, Johnathan Taylor	502b	510	
Is it Possible? Is it Plausible? Be a Probability Detective!	Robert Lochel	N426a	511	
Using Dynamic Applets to Engage and Illuminate Students' Statistical Thinking	Daren Starnes, Josh Tabor	Hyde Park	512	
Balancing Structure and Openness to Encourage Creativity Through Risk Taking in Mathematics	Megin Nadirsha, Casey Warmbrand	N135	513	
Middle Grades Algebra in Chicago: Supporting Teachers, Schools, and Students	Laura Margaret Burbach, Fathima Sadikeen, John Boller, David Jabon	Regency A	514	
Adapting Teaching Practices Through Scaffolded Routines to Foster Student Identity	Keiran Nank, Sean Nank	E354B	516	
Effective Mathematics Instruction: Cutting Through the Noise	Matthew Larson	N228	517	
Math-ish. Enchant Your Students With the 'ish' Version of Maths!	Jo Boaler, Cathy Williams	E354A	518	
Weaving a Mat That Seats Many: How to Cultivate Instructional Equity and Community in a Flipped Mastery Classroom	Nicole Schofield, Joseph Manfre, Noelle Hoftiezer	503b	519	
Accessing Workforce Tools to Develop Relevance for Mathematics	Chuck English	505A	519.1	 
Research Report: Examining Mathematical Thinking	Andrew Tyminski, John Bragelman, John Garrett Barnes, Julie Amador, Alison Castro-Superfine, Dawn Woods, Kathryn Rupe	502a	R500	 
Research Report: Statistics Methods	Shawnda Smith, Brandi Falley, Lorianne Gillander, James Millikan	N230a	R531	  
Interactive Burst Workshop #7	Charles Flowers, Frances Harper, Temvelo Matsebula, Francia Zelaya, Kyli Wooten, Paul Yu, Joy Oslund, Tasnim Alshuli	503a	R555	  

Title	Speakers	Room	Session #	Audience
'I'm Just Not A Math Person' and Other Lies We Tell Ourselves	Dawn Pagliaro-Newman	Grant Park ABC	520	
Geometry for Young Children: Learn While Playing With Interesting and Engaging Pattern Block Puzzles	Christina Sales	N426c	521	
Go as in AI AlphaGo: How Go Assists Teachers in Meeting Math Learning Standards in Grades K-3	Xiuwen Wu, Xinming Guo	N230b	522	
BBA - Statistical Reasoning Through Social Studies: Empowering Students to Digest Data	Amarius Reed	N426b	523	
Creating a Positive Math Identity for All Students While Building Fact Fluency	Anne Berger, Christina Sherman	S405	524	
Fraction Forward: Building Our Fraction Teaching Knowledge Empowers Our Students' Bright Futures	Maria Franshaw	Regency B	525	
Multiplication: What Makes It Distinct From Addition?	James Brickwedde	Adler	526	
BBA - Building Thinking Scholars in Action	Nevels Nevels, Amanda Garner-Brooks	S403	527	
Buildings and Bars: Using Technology Tools to Examine Key Ideas for Proportional Reasoning	Rachael Brown, Chandra Orrill, Eileen Murray, Kun Wang	S401 D	528	
Making Meaning of Systems of Equations With Contexts and Representations	Raymond Johnson, Frederick Peck, David Webb	Jackson Park ABC	529	
'Building a Bigger Tent: Finding Opportunities to Build Community'	Matthew Baker	N231	530	
Elevating Student Status With Rough Draft Talk	Jessica Thiel, Marcus Blakeney	Dusable	531	
Elevating Student Voice to Drive Deep Mathematical Learning	Abel Maestas, Christina Rubalcava	N227	532	
Using Relevant Tasks as Windows and Mirrors in Mathematics Classrooms to Foster Positive Identities	Marilyn Strutchens	S401 BC	533	
Data Science Math Activities and Social Implications: Climate Change, Teen Vaping, Gun Violence	Tom Reardon	S402	534	
Lab Calculus: Graphical and Numerical Approaches to Problem Solving	Kevin Bartkovich, Jessica Emory	S501	535	
Numerical Computing with Data	Jededyiah Williams	Burnham	536	
Ethnic Studies Principles in Math Classrooms	Naehee Kwun, Kris Houston	N427bc	537	
President Series: You Get What You Expect: Having and Expressing High Expectations for ALL Students in Mathematics	Katherine Arrington	N138	538	
Stop Preaching and Let 'em Teach! Aiming Teachers Toward Desired Teaching Practices	Joel Amidon, Candies Winfun-Cook, Angela Harris	S404 BC	539	
Supporting Innovative Mathematics Teaching in Tiers 2 and 3	Delise Andrews, Karla Bandemer	Clark	540	
Supporting Affiliate Engagement and Outreach: NCTM's Membership and Affiliate Relations Committee	David Barnes, Paul Alves, Stephen Levesque	Regency D	541	

AUDIENCE KEY



Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12



Higher Education



Linking Research & Practice/ Research
































Coaches/ Leaders/ Teacher Educators



General Interest

Saturday, September 28, 2024

Title	Speakers	Room	Session #	Audience
9:30 AM				
Four Engaging Strategies to Build Number Sense in Kindergarten and First Grade	Janelle Chisholm	505a	542	
Equitable Noticing of Children's Mathematical Thinking	Jonathan Thomas	S404 D	543	
Ensuring Student Learning: Combining Standards-Based Grading and Grading Reform	Scott Fellows, Danielle Krueger, Kristi Pramuka	N135	557	
MO-Math: How Student-Led Math Enrichment Breaks Down Barriers to Learning	Lauren Zarandona	503b	558	
Playful Tasks for Mathematical Thinking	Chandra Orrill, Rachael Brown, Eileen Murray, Kun Wang	N230a	559	
Research Report: Pre-Service Teachers	Nama Namakshi, Hiroko Warshauer, Kelly Byrd, Rachel Henderson	N426a	R526	  
Research Report: Teacher Development; Mathematical Practices and Leadership	Trina Ashadele, Stephanie Aseltine, Michael Vo, Susan Swars Auslander, Mingyu Su	N427a	R540	   
Promoting Equitable Teaching Practices by Amplifying Geometry Content With Technology	Kate Roscioli	502b	544	
Strengthening Mathematical Identities Through Co-Designed Supports: Learning From Students	Adam Smith	N226	545	
Build a Community of Learners	Mona Toncheff	S406 B	547	
Amplifying Student Voice: The Key to a Student-Centered Classroom	Barbara Beske	S401 A	548	
Using Open-Ended Questions to Increase Student Engagement	Rachael Kenney, Josh Goodwin	S404 A	549	
Analyzing Errors to Provoke Meaningful Student Discussion in Mathematics	Renu Budhreja, Charlie Michaelson	503a	550	
High School Math Pathways: Making Mathematics Equitable for All	John Kerrigan	N228	552	
The New AP Precalculus Course	Jason VanBilliard	505b	553	
Crosscutting Concepts for High School Mathematics and Mathematical Processes II	Kristi Martin, Karen Elizabeth Hyers, Lya Snell	N229	553.1	
Answers to Your Biggest Questions About Using Fermi Problems to Develop Logic and Thinking	Fred Dillon, Ayana Perry	Hyde Park	554	
Building Pedagogical Content Knowledge Through Collaborative Coaching	Jenna Laib	Regency A	555	
Beyond Pull Outs and Remediation: Integrating Universal Design for Learning in Mathematics	Cathery Yeh, Olivia Barrow, Lauren Rigby, Larry Perez	E354B	556	
Research Report: Teachers and Coaching	Erica Lembke, Sarah Powell, Leanne Ketterlin-Geller, Lois Indungu, Allison Dennis, Emily Singell, Gabriella Donofrio, Michael Jarry-Shore, Meghan Durkin, Hilda Borko, Marsha Ing, Thomas Smith	N427d	R541	 
Research Report: Teaching Mathematics	Sarah Bush, Juli Dixon, Lisa Brooks, Brian Moore, Melissa Boston, Joshua Males	Regency D	R544	  

Title	Speakers	Room	Session #	Audience
9:45 AM				
Make It Count: Imagine, Explore, and Discover Math in the P-2 Classroom	Arcy Alafa, Kim Webb	Regency B	560	
Sparking Mathematical Conversations to Nurture Opportunities for Students to Shine	Dawn Woods	S501	562	
Fractions...Let's Take a Deep Dive	Kristin Hilty	S403	563	
Giving Kids the Space They Need to Build Belonging and Brainpower: Five Specific Spaces That Matter	Laura Grandau, Rachel Hill	Grant Park ABC	564	
President Series: Collectively Fostering Mathematics Education for All to Thrive	Marian Dingle, Trevor Warburton	Adler	565	
Building Concrete Visual Patterns... One Brick at a Time! (All K-12 Teachers Are Welcome!)	Nova Katz	S402	566	
Celebrating Students' Mathematical Thinking: Experiencing STEM Problems on Proportional Reasoning	Yvonne Slanger-Grant, Alden Edson, Elizabeth Phillips	N426b	567	
Highlighting Student Brilliance in a Collaborative Manner Through Intentional Technology Use	Farshid Safi, Aline Abassian, Maral Karimi	N227	568	
Supporting Students Who Struggle: Inspiring All Students to Achieve	Mark Ray	Dusable	569	
Equity in Action: A High School Social Justice Math Class	Andrew Lebovitz	N427bc	570	
Station-Ception for Secondary Classrooms: Implementing Effective Stations at the High School Level	Heather Clarke, Micah Thomas, Emily Kerwin, Leigh Ann Madison	S401 BC	571	
Leveraging Data Science Teaching Practices to Nurture Excellence	Stephanie Melville, Lindsey Henderson	Clark	572	
Teaching Mathematics to Students with Mental Health Challenges in the Post-Pandemic School Setting	Kimberly Powers	N426c	573	
Using Technology to Support Students' Sense Making in a Thinking Classroom	Nathan Kenny, David Dai	S405	574	
BTC and ICUCARE: Two Great Frameworks That Go Great Together	Pamela Seda, Peter Liljedahl	Jackson Park ABC	575	
Dynamic Routines to Foster Student and Teacher Engagement Throughout the Curriculum	Jay Schiffman	N138	576	
Gallery Walks: A Virtual Tool for Exploring How to Question Children's Thinking	Amy Hewitt Dunning	Burnham	577	
Sparking Student and Teacher Learning and Engagement Through the Power of Mathematical Storytelling	Nicole Fletcher, Erica Walker, Robin Wilson, Nasriah Morrison, Anisha Clarke	N230b	578	
11:00 AM				
Broadening the Purposes of Learning and Knowing Math via Relevant Mathematical Investigations		505b	579	
Bajillions: The ULTIMATE Resource for Playful and Joyful Early Math	Douglas Clements, Julie Sarama	S406 A	580	

AUDIENCE KEY


Pre-K to 2



3 to 5



6 to 8



8 to 10



10 to 12




























Higher Education














 Linking Research & Practice/
Research

 Coaches/
Leaders/
Teacher
Educators


General Interest


Saturday, September 28, 2024

Title	Speakers	Room	Session #	Audience
Chalk Talk: Valuing All Students' Unique Mathematical Thinking	Kelly Byrd, Kayla Cooper, Raegan Bolger	N135	582	
Equitable Learning Communities: Supporting Struggling Learners to Realize Their Brilliance	Kelly Hutson, Andrea Kotowski	502b	583	
How We Use Manipulatives in a Thinking Classroom	Kimberly Rimbey	N229	584	
Leveraging Student Strengths Through Universal Design for Learning	Shannon Miller, Erica Willing, Meghan Hyatt	N230a	585	
Practical Changes to Capture Student Brilliance	Amber Candela, Franklin Wonsavage, Zandra de Araujo, Samuel Otten, Maria Stewart	Regency A	586	
Building Coherence Across High School Mathematics Courses	Ashley Garner, Lindell Coker, Joseph Marutollo	S406 B	587	
Showcasing Brilliance: Using a Portfolio to Document Student Learning in Mathematics	Shelbi Cole, Anna Weltman, Silvestre Arcos	N426a	588	
The Art of Thin Slicing: Delivering Curriculum in a Thinking Classroom	Sharon Soule	503b	589	
Creating an Equitable Pathway to Increase Access for Algebra in Middle Grades	Jennifer Czarnecki, Corey Morrison	S404 A	590	
Empowering Special Education Teachers: Data-Driven Coaching for Mathematics Success	Erica Lembke, Gabriella Donofrio, Emily Johns	Hyde Park	591	
Fostering Thinking Classrooms to Unleash Student Brilliance	Stephanie Verners, Kim Webb, Nancy Nagatani	Regency D	592	
A Data Science Framework for K-12 Education	Anna Bargagliotti, Christine Franklin, Donna LaLonde	Regency C	593	
Did Money Create Math? The Intertwined History of Math of Finance	Andrew Davidson, Philip Dituri, Jack Marley-Payne	503a	594	
President Series: Lighting the Way to Learning: Lessons Developing Algebraic Thinking From Presidential Awardees	Linda Antinone, Corey Boby, Regina Kilday, Veronica Meeks, Jill Gough, Gail Burrill	S404 D	595	
The Promise and Limitation of Artificial Intelligence in the Mathematics Classroom	Kurt Salisbury	N228	596	
Research Report: Mathematics Learning	Mingyu Feng, Alden Edson, Ashley Fabry, Taren Going, Ahmad Wachidul Kohar, Sunyoung Park	N427d	R522	 
Research Report: Professional Development for Teachers	Amanda Brown, Patricio Herbst, Ruya Savuran, Jonathan Brendefur, Sam Strother	N427a	R527	  
Research Report: Student Teaching and Mathematics	Emmanuel Umeh, Shristi Shrestha, Jasmine Sourwine, Ji Yeong I, Betsy Araujo Grando	S401 A	R533	  
Interactive Burst Workshop #8	Katherine Pettrey, Allie Boquet	505a	R556	 

Title	Speakers	Room	Session #	Audience
11:30 AM				
Multiple Math Tools + Strategies = Conceptual Understanding	Laurie Fazio	N427bc	597	
Decoding Fractions: Unraveling Eight Common Error Patterns	Yun-Chi Tsou, Kuan-Chun Chen	N426b	598	
Triangles, Squares, and Rectangles, Oh My! Helping Students Develop Geometry Reasoning Abilities	Thomas Fox	S401 BC	599	
Empowered to Learn: Collaborative Structures to Boost Student Engagement and Success	Matt Miller	S405	600	
Powerful Mathematicians Who Changed the World	Cynthia Taylor, Christa Jackson, Kelley Buchheister, Kari Jurgenson	S401 D	601	
How to Recognize a Mathematically Productive Struggle	Nitchada Kamlue, Laura Van Zoest	Burnham	602	
Connecting Trigonometry and Geometry in an Inclusive Classroom	John Ashurst, Lindsay Gold, Michael Houston	S404 BC	603	
University-Based Preparation + Core Practices + Personal Experiences = Strong Teacher Self-Efficacy	Jennifer Malue	N227	604	
Fostering Fractional Understanding: Innovative Strategies to Enhance Teaching and Learning in Math	Sarper Turker	N230b	604.1	
Rethinking Assessment: Humanizing Homework Through Self-Guided Revisions and Self-Assessment	Amy Ray	S501	605	
Magnifying Student Excellence: Social Justice Issues + Thinking Classrooms in College Mathematics	Laurie Jordan	S403	606	
12:30 PM				
Closing Session: Making a Better Marketing Team for Math	Howard Hua	E354A	607	



HMH
Booth 600



KIDDOM
Booth 619



TEXAS INSTRUMENTS
Booth 913

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