

NCTM 2018 Research Conference

Schedule-at-a-Glance: Monday/Tuesday

REGISTRATION

Monday 4:00 p.m.–6:00 p.m.
Tuesday 7:30 a.m.–2:00 p.m.

Learn more at www.nctm.org/researchconference or download our app at www.nctm.org/confapp.
Connect with other attendees by using #NCTMresearch on Twitter, Facebook, and Instagram.

Legend

Research Report	Research Symposium	Invited Session
Discussion Session	Poster Session	Opening/Plenary Session

	Room 202 A	Room 201	Room 202B	Room 203A	Room 203B	Room 204A	Room 204B	Room 204C	Room 209A	Room 209B	Room 209C	206	207A
Monday 5:30 p.m.-7:00 p.m.	You, Advocacy, and Policy & Legislation inside the Beltway Della B. Cronin & James Brown #1: Opening Session – Room 202A												
Tuesday 8:30 a.m.-9:45 a.m.	#2: Demystifying the JRME Revise and Resubmit Review Process (Cai, Spencer)	#3: Investigating Racism with Math: Racial Bias, Quadratics, and Combinatorics (Gatza)	#4: Bold Problem Solving: A New Construct for Gender Equity Research (Theule Lubienski, Makowski, Miller)	Research Reports Session #5: Do Assessments of Teacher Knowledge Align with Expectations for Students? (Copur-Genturk, Rasiej) A Comparison of Self-Reported Teacher Learning to Validated Measures (Copur-Genturk, Thacker)	Research Reports Session #6: (Re)Defining Access and Equity in Preparing for the edTPA (Mickle Moldavan) An intervention in teacher education focusing on the role of assumptions (G. Stylianides, A. Stylianides)	Research Reports Session #7: A Meta Analysis: Writing in Mathematics Classroom (Bicer, R. Capraro, M. Capraro, Y. Lee) Math & Literacy: The School-wide Impact of a Focus on Oral Language (Shea, Shanahan)	Research Reports Session #8: A Model to Develop Coherent Mathematics Instruction in Elementary Schools (McGee, Brewer, Gonulates) Supporting Beginning K-5 Teachers to Counter Deficit Views of Students (Scott)		Research Reports Session #10: Supporting Mathematical Play in Home Environments (Linder) “Incidental” mathematics during everyday events at home: A case study (A. Anderson, J. Anderson)	#11: Engendering Reflective Abstraction of Fraction and Algebra Concepts (Simon, Hackenberg, Norton)	Research Reports Session #12: Comprehensive Review of Assessments of Mathematics in Early Childhood (Day-Hess, Clements, Ganzar, Pugia, Sarama) Review of Early Childhood Mathematics Curricular Activities (Simoni, Clements, Day-Hess, Germeroth, Sarama)	Research Reports Session #13: Towards equity: Examining math educators’ histories, values and priorities (Livers)	#14: Informal Kindergarten Mathematics Diagnostic: A Validation Study (Herron, Holaway)
10:00 a.m.-11:15 a.m.	#15: Funding Opportunities and Resources at the Institute of Education Sciences (Chhin, Brasiel)	#16: The Neoliberal Context of Equity Storylines (Przybyla-Kuchek, Singleton)	#17: Let’s Talk About Professional Development Models That Work (Rigelman, Gray, Lewis, McQueen, Prigodich)	Research Reports Session #18: Access to Mathematical Discussion for Students with Disabilities (Lambert, Hunt, Yeh) Assistive technology for hands-on learning by children with disabilities (McGarvey)	Research Reports Session #19: Advancing A Multilevel Model of Symbolic Mathematics Language Literacy (Headley) Mathematical Literacy Citizenship: Share and Tell (Kurz)	Research Reports Session #20: Alignment of Support Structures for Active Learning in College Calculus (Kress, Webb) The Efficacy of the Mathematics Studio Model Professional Development (Melhuish, Fagan, J.M. Shaughnessy, White)	Research Reports Session #21: An Exploration of Fact Fluency Development in 150,000 Elementary Students (Rich, Bates) Leveraging Tutorial Math Instructional Software to Enhance Math Talk (Anderson-Pence)	#22: A Learning Progression for the Function Concept as a Basis for Assessment (Graf, Eames, Fife, Lewis, Ohls, Brady)	Research Reports Session #23: Analyzing the Impact of Video Representation Complexity on PST Noticing (Castro Superfine, Bragelman) Student Noticing in Function Representations (Sawrey)	#24: Models and Learning Paths to Support All Students to Learn Fractions (Lewis, Fuson, Saxe, Schoen, Takahashi, Watanabe)	Research Reports Session #25: Length Measurement in the Early Years: Teaching with Learning Trajectories (Sarama, Barrett, Clements, Cullen, Dolgin) Young Children’s Algebraic Reasoning Abilities (Cavanagh)	#26: Potent Conceptual Frameworks: Lessons from the NCTM Research Compendium (Cai, Cobb, de Freitas, Langer-Osuna, Stinson)	#27: Middle School and College Partnership in Concrete Math Interventions (Burchard, Bleiler, Eldridge, Moyer, Schultz)
11:30 a.m.-12:45 p.m.	#28: Asset-Based Approaches to Mathematics Education Research and Practice (Celedon-Pattichis, Lunney-Borden, Drake, Aguirre, Koestler, Lopez Leiva, Roth McDuffie)	#29: Studying Networked Improvement Communities: A Way to Improve Math Teaching (Smith, Walters)	#30: Critical Theoretical Perspectives on Disability and Mathematics Education (Lambert, Hunt, Sinclair, Tan)	Research Reports Session #31: Applying a Validation Framework to a Learning Trajectory on Similarity (Shah, Belcher, Confrey, McGowan) Unpacking Learning Trajectories during Coach-Facilitated Lesson Study (Suh, Birkhead, Farmer, Galanti, Seshaiyer)	Research Reports Session #32: Changes in Questioning Practices to Support English Learners (Roberts, Spina) Pedagogical Listening: hearing and responding to student struggle (Hintz, English, Tyson)	Research Reports Session #33: Changing Teachers’ Planning Practices Through Sustained Feedback (Popovic, Kartal, Morrissey) Quantitative Research linking Teacher Job Resources to Student Achievement (Stokes-Levine)	Research Reports Session #34: Contradictions and Tensions as Potential Levers for Math Teachers’ Learning (Baldinger) Conventions as Choices or Rules: Teachers’ Understandings (Vishnubhotla, Moore, Paoletti, Rahman, Silverman)	#35: Classroom Instruction that Engages High School Students with Mathematics (Jansen, Dietiker, Horn, Miller, Renninger)	Research Reports Session #36: Cultivating Equity-Mindedness for the Teaching of Mathematics (Colum) Mathematics for Liberation and Allyship: Social Justice Mathematics Teachers (Kokka)	#37: Rigorous Research to Improve Learning in Elementary Math for All Students (Chhin, Blanton, Booth, Fuchs, Powell, Brasiel)	Research Reports Session #38: Co-teaching and the PrimeD framework: Radicals and Rational Exponents (Rakes, Kirvan, Vitkowski) Identifying Changes in Prospective Secondary Teachers Conceptions of Proof (Boyle)	#39: Could I publish this in MTE? Advice from published manuscripts in the Mathematics Teacher Educator journal (Crespo, Chao, Yow)	#40: TRU Growth and Development: Creating and Analyzing Case Studies (D. Wilson, Kent, Yagielski)
1:45 p.m.-3:00 p.m.	#41: Understanding Student Understandings: Perspectives of Progress Monitoring (Dougherty, DeLeeuw)	#42: Enhancing Instruction in Co-Taught Classrooms through Coaching Cycles (Harbour, Livers)	#43: Measuring Mathematical Knowledge for Teaching with Visual Representations (Louie, Neumayer DePiper, Nikula)	Research Reports Session #44: Cultivating Mathematical Affections through Engagement in Service-Learning (J. Wilkerson) Teachers Ascribing to Different Implicit Theories and the Role of Mistakes (Watson, Barlow, Gerstenslager, Hartland, Willingham)	Research Reports Session #45: Developing Secondary Math and Science Teacher Leaders in Rural Districts (Yow, Irvin, Lotter) Predicting STEM Majors: Analysis of Longitudinal Study (Gillespie, Witte)	Research Reports Session #46: Questioning Statistics to Open up New Ways of Being Mathematician (S. Cannon) The Development of Students’ Language in Geometric Reasoning (Joswick, Battista)	Research Reports Session #47: Identifying Gaps in Pre-service and Novice Teachers’ Assessment Literacy (Amit, Hoch) Reflective Assessment and Feedback in High School Mathematics (Baliram)	#48: Contrasting Perspectives on Multiplication, Area and Combinatorial Problems (Izsák, Jacobson, Tillema, Lehrer)	Research Reports Session #49: Researchers’ use of video records to study the work of teaching (Gadd) Using Video Recall for Integrated I Partner Teachers’ Professional Growth (Dunleavy)	#50: Exploring Equity in the Context of Mathematics Teacher Education Practice (Masters Goffney, Chao, Gholson, Khalil, Willis, Berry, Thames)	Research Reports Session #51: Korean Students’ Profiles of Motivational Constructs and Engagement (Hwang, Ko) Relationships of home, student, school, and classroom with math achievement (R. Miller)	#52: Graduate Student, Junior Faculty, and Researcher Mentoring Session (NCTM Research Committee)	#53: CCSM Triple Threat: Focused PD, Aligned Curriculum, & a Hands-On Approach (Canzone, Hyde, Valbuena)
3:15 p.m.-4:30 p.m.	#54: Relevance in Mathematics Education Research: Promoting the Progress of Science (Ferrini-Mundy)	#55: Attending to Culturally Responsive Teaching Beliefs (Morge, Pugalee)	#56: Building a K - 2 Early Algebra Learning Progression for Diverse Learners (Blanton, Stephens)	Research Reports Session #57: Examining Student Thinking to Better Connect the Multiplicative Field (McMillan) Revealing Base Ten Understanding Through Written Formative Assessment Tasks (Fletcher, Brayer Ebby, Hulbert)	Research Reports Session #58: A Role-playing Assessment for Posing Purposeful Questions (Grosser-Clarkson, Dunsworth) Understanding The Student Perspective Through Dynamic Technology (Manzo, Hulse, Ottmar)	Research Reports Session #59: Self-efficacy: The Mathematics Education of African American Males (L. Williams) What gets checked at the door? Embracing students’ complex math identities (Ruef)	Research Reports Session #60: Seventh Grade Students’ Algebraic Reasoning—Modeling and Structure Cases (Kanbir) Who’s Really Ready? Findings from the 8th Grade Algebra Readiness Study (Walters, Cade, Eisner, Sorensen)	#61: Time Matters: Developing Useable Knowledge for Teaching Mathematics (DiNapoli, Berk, Mixell, Willoughby, Young, Santagata)	Research Reports Session #62: Learning to lead mathematical discussions through the adaptive cycles (X. Han) Supporting Teachers in Fostering Small-Group, Student-to-Student Discourse (Quebec Fuentes)	#63: Investigating Alignment in Teachers’ Understanding and Use of Curriculum (Choppin, Borys, Davis, Drake, Roth McDuffie)	Research Reports Session #64: Indigenous knowledge in Canadian mathematics and science education (Lunney Borden, Glanfield, Wiseman) Students’ Negotiation of Equitable Strategies for Collaborative Math (Harper)	Research Reports Session #65: Teachers’ Interactions around Meaningful Mathematics Learning Experiences (Gonulates, Brewere, McGee) What does it mean to “do math” in a Math Teachers’ Circle? (Peck, Erickson, Parker Renga, Wu)	#66: What is the Role of Computational Thinking in Math Education? (Webb)
4:30 p.m.-6:00 p.m.	Poster Sessions – www.nctm.org/RCPosters – with Reception – L Street Bridge												

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Wednesday 8:00 a.m.-9:15 a.m.	#115: Building Effective High School Mathematics Programs for Each and Every Student (Larson)	#116: Advocacy and Action in Mathematics Teacher Education (Kalinec-Craig, Khalil, Masters Goffney, McGraw, Sorto)	#117: Planning for Inquiry Lessons Viewed Through Multiple Perspectives (P. Bailey)	Research Reports Session #118: Improving Latin@s self-efficacy in meaningful math digital spaces (Viera, Kosheleva, Saldana) Teaching Students to Ask Questions as a Strategy to Persevere (Wilkes)	Research Reports Session #119: Exploration and Investigation: Two Ways to Use Cognitively Demanding Tasks (Kelly) Differentiating Linear Function Instruction for Eighth Grade Students (Hackenberg, Aydeniz, Borowski, Jones, Matyska)	Research Reports Session #120: Middle School Mathematics Teachers' Perceptions of Curriculum Design (Davis, Choppin, Drake, Roth McDuffie) The nature of explorations: A comparative analysis of written lessons (Dietiker, Richman)	Research Reports Session #121: Portfolio Problems to Mediate Metacognitive Thinking during Problem Solving (Hancock) The personal nature of collective problem posing by middle years students (Armstrong)	#122: Components of and Supports for Productive Lesson Study Collaboration (Murata, Akiba, Fabrega, Howard)	Research Reports Session #123: Massive Open Online Courses (MOOCs) and Mathematics Knowledge for Teaching (Vega, Crawford-Ferre, Trakas) What Effect Does the Hybrid Class Format Have on Classroom Interactions? (Seneres)	#124: PrimeD: A Framework to Guide PD, Embed Evaluation, and Structure Research (Ronau, Bush, Mohr-Schroeder, Saderholm, Rakes)	Research Reports Session #125: How Positioning Affects Student Learning in an Inquiry-Based Classroom (Curtis, Siebert)
9:30 a.m.-11:00 a.m.	Unpacking the "Urban" in Urban Mathematics Education Erika Bullock & Gregory Larnell #126: Plenary Session – Room 202A										
11:15 a.m.-12:30 p.m.	#127: Research Across Boundaries: Why Attend an ICME (Burrill, Remillard, Karunakaran, Strutchens, Zelkowski)	#128: Teacher Actions to Support Productive Struggle (Keels, J.Han, Spangler)		Research Reports Session #130: Measurement and Label Conceptions of Variables and Fractions (Beckmann) Mixture Rasch Analysis of Middle Grades Teachers' Reasoning About Fractions (Olmez, Izsák)	Research Reports Session #131: Leaping from Discrete to Continuous X-Axes in Science: 6th Grade Struggles (S. Boote, D. Boote) National Study of Mathematics Intervention Classes at the Middle Grades (Brodesky, Fagan, Zweig)	Research Reports Session #132: How "Common" is Common Core? An Analysis of Middle Grades Math Standards (Dingman, Homem, Namakshi, Pullin) Parent communication of math curriculum reform: A phenomenographic study (McGarvey, McFeetors)	Research Reports Session #133: Preschool Teachers' Math Talk: Effective Math Domains, Syntax and Purpose (Swaminathan, Trawick-Smith) Preservice Teachers' Multiple Perspectives on Teaching and Learning (Burton, Cardullo, Tripp)		Research Reports Session #135: Preservice Teachers Understanding and Use of Culturally Responsive Teaching (Ramsay-Jordan) Prospective Teachers Incorporating Children's Home and Community Knowledge (Kalinec-Craig, Jablon Stoehr, Turner)	#136: Identity Matters: Working with Minoritized Teachers and Students (Chazan, Brantlinger, Clark, Gutierrez, Quintos)	Research Reports Session #137: Preservice teacher attempts to link mathematics and culture (Trask, Martin) Prospective Elementary Teachers of Mathematics Consider Student Labeling (Kitchen, Garcia-Olp, VanOoyik)
1:30 p.m.-2:45 p.m.	#138: MET Grant Research & Research Findings (Connelly, Dickenson, I)	#139: Designing Simulations to Advance Pre-Service Teachers' Knowledge and Skills (Boerst, Prawat, Shaughnessy, Pfaff)	#140: Northern Exposure: Canadian Lessons on Excellence and Equity in Mathematics (Silver, Glanfield, Sinclair, Suurtamm)	Research Reports Session #141: Pre-Service Teachers' Understanding of the CCSSMPs in the Work of Teaching (Mortimer) Prospective Teachers Anticipate Challenges with Fostering Problem Solving (Keazer, Jung)	Research Reports Session #142: Preservice Teachers' Mathematics Knowledge for Teaching: Video Analysis (Flores, G. Wang, Y. Wang, Yi) Profiles of Teacher Candidates' Responsiveness to Avatar Student Thinking (Fleming, Grosser-Clarkson, Levin)	Research Reports Session #143: Prospective Secondary Teachers' Conceptions of Proof and Teaching of Proof (Park, Conner) Prospective Secondary Teachers' Orientations toward Mathematical Processes (T. Cannon)	Research Reports Session #144: Education Technology, Achievement and Orientation: A MetaAnalysis (Rakes, Bush, Pugalee, Ronau) Enhancing Preservice Teacher Knowledge of Dynamic Geometry Task Quality (Trocki)	#145: Concept Images, Statistical Variability, and Interactive Dynamic Technology (Burrill, Dick, Peters)	Research Reports Session #146: Evaluating the impact of Dynamic Measurement on students' thinking of area (Basu, Panorkou) Using Dynamic Design to Illustrate the Multiplicative Relationship of Area (Panorkou, Vishnubhota)	#147: Empowering Mathematics Teachers' Change Agency (Badertscher, Winger, Gates)	Research Reports Session #148: Use of the Bar Model to Communicate Relational Thinking (Van Vooren) Using meaning fields to understand students' hybridized representations (Savich, Jacobson)
3:00 p.m.-4:15 p.m.		#150: Using Rubrics to Make Equity the Focus of Teacher Professional Development (J. Wilson, Kimble)	#151: HS Common Core Math Connections with Science, Technology, and Engineering (L. Walker)	Research Reports Session #152: Identity Development of Prospective Teachers During Practicum Experience (Gomez) Video as a Tool to Support Teacher Learning: A Cross-cultural Analysis (Ding, Li, Luo, Manfredonia)	Research Reports Session #153: STEM PBL in Mathematics: Improving Teacher Knowledge and Interest (Nite, Allen)	Research Reports Session #154: Introducing Residual Criterion for Line of "Good" Fit in Grade 8 Classrooms (Nielsen, Adams, Yopp)	Research Reports Session #155: Divergent Thinking and Creativity with In-Service Mathematics Teachers (Patterson, Corey) Enhancing Preservice Teachers' Specialized knowledge: An Intervention Study (Y. Wang, Flores, G. Wang, Yi)	#156: Engaging in Lesson Study Through Long Term Professional Development (Hummer, Cirillo, Melville, Cresci, Huebner, Reed, Hiebert)	Research Reports Session #157: Exploring factors related to High Schoolers' algebra achievement (Sharpe, Marsh) Investigating the Preparation of Algebra Teachers (Newton, Jung)	#158: Improving Mathematics Teaching and Learning Through Formative Assessment (Brayer Ebby, Hulbert, Laird, Petit, Remillard, Taton)	Research Reports Session #159: Factors that influence high school mathematics teachers' uses of technology (McCulloch, Harrison, Hollebrands, Lee, Mutlu) Latinx engagement in math and music explored through the lens of CHAT (Kosheleva, Saldana, Viera)