

FRIDAY MORNING SESSIONS

ROOM	9:45 AM – 10:45 AM	11:00 AM – 12:00 PM
Harbor Side 202	1 Intuitive Approach to Multi-Digit Multiplication (with Apps) Ryota Matsuura & Olaf Hall-Holt 3-5	21 Eliciting a Robust Understanding of Place Value James Brickwedde 3-5
Harbor Side 203	2 Utilizing Statistics in a Non-Stats Classroom Jonathan Osters, Megan Schmidt & Mark Kingsbury 6-12	22 Reaching and Teaching Students in Poverty Paul Gorski KEYNOTE SPEAKER General
Harbor Side 204	3 Essentials to Math Support Courses May Vang 6-12	23 Tiered RTI Math Intervention at Anoka Middle School Carissa Simonet 3-8
Harbor Side 205	4 Taking Control: Designing Math Pathways on Your Own Terms Brian Mercer 8:00 – 9:50 AM and 10:00 – 11:50 AM College	24 Taking Control: Designing Math Pathways on Your Own Terms Brian Mercer 10:00 – 11:50 AM College
Harbor Side 301	5 All You Need is a Banana: One Context, Multiple Disciplines Joan Kwako PreK-5	25 It's Not Just a Math Problem Sarah Bustrom, Stephanie Wainionpaa, Anna Swarts & Jody Greniger College
Harbor Side 302	6 Step-by-Step of Cornell Notes Rachel Price 6-12	26 Building a Mathematical Community Through Effective Discourse Dan Vrieze 6-12
Harbor Side 303	7 Minimizing the 'Matthew Effect' Sara VanDerWerf 6-12	27 Today's Math, Closing the Achievement Gap Eileen Johnson 9-12
Harbor Side 304	8 Un-sandboxing Our Technology: Unifying The Mathematics Education Experience Mike Reiners 6-12	28 Numbers and Nuance: Math in the News Alex Fisher 6-12
Harbor Side 305	9 Purposefully Integrating Technology Allison Rapp & Ellen Minzel 6-12	29 Name That Polygon: Geometry Meets Algebra Lesla Covington-Clarkson 6-12
French River 1	10 "I've got the Power!" of the Number Line Kelsey Raasch & Courtney LaRoche PreK-5	30 Jumping Before Splitting Sarah Moffett & Nina Smith PreK-5
French River 2	11 Resources and Partnerships: Community Supported Math Intervention Janet Knoll, Peter Nelson, Alison Jirik & Rebecca Kanive 3-8	31 Teaching Statistics From The Trenches Michael Huberty, Dan Butler, Jeffrey Finholm, Kari Johnson, Michael Nguyen & Andrew Zieffler 9-College
Ballroom L	12 Will an A+ Student in My Class Meet or Exceed on the MCA? Angela Hochstetter, Ann Page, Penny Houtz & Jennifer Dugan 3-8	32 Using Released Items With Data Ann Page & Angela Hochstetter 3-8
Ballroom M/N	13 Integrating Growth Mindset Into Your Math Class Mike Floersch 6-12	33 Pre-Calculus and Financial Literacy Dan Bungert 9-12
Ballroom O	14 Relate, Communicate, and Collaborate (and learn Algebra!) Jennifer George & Melanie Meyer 6-12	34 Using the "5 Practices" to Engage in Mathematics Amy TerEick & Mary E. Pilgrim 6-12

FRIDAY MORNING WORKSHOPS

ROOM	10:00 AM – 11:30 AM
St. Louis River Room	15 General Number Talks: District Vision to Classroom Implementation Sarah Miziorko & Michael Wallus
Gooseberry Falls 1	16 3-8 Connecting Representations: A Routine for Revealing Structure Terry Wyberg & Christy Pettis
Gooseberry Falls 2	17 6-12 Hands-on to Abstract: Teaching the Way Children Learn Heidi Hansen & Alexander Johnson
Gooseberry Falls 3	18 6-12 Sparking Mathematical Conversations With Desmos Activities Jessica Breur
Split Rock 1	19 PreK-5 Beyond the Ruler and the Measuring Tape Marium Toure
Split Rock 2	20 6-12 Stronger Together: Collaborating Outside and Inside the Classroom for Student Success Christopher Wernimont & Colleen Atakpu-Shiggs

FRIDAY EXHIBIT HALL SESSIONS

9:45 AM – 10:45 AM	11:00 AM – 12:00 PM	1:30 PM – 2:30 PM	2:45 PM – 3:45 PM	4:00 PM – 5:00 PM
Bricks 4 Kidz Bricks 4 Kidz-S.T.E.M. Programs for K-8 Kathy Lahr	Houghton Mifflin Harcourt Talking Your Way to Deep Mathematical Understanding Pam Richards	Big Ideas Math/Learning and National Geographic Learning Cengage Engage, Talk, Connect, ETC, ETC, ETC Barb Webber	Southeast Service Cooperative's Rochester Area Math Science Partnership Program (RAMSP) Educator Input + Augmented Intelligence = IBM's Teacher Advisor with Watson Sarah Ness	Houghton Mifflin Harcourt Numbers Are NOT Letters! Dr. Jan Scott

FRIDAY AFTERNOON SESSIONS

Room	1:30 PM – 2:30 PM	2:45 PM – 3:45 PM	4:00 PM – 5:00 PM
Harbor Side 202	35 3-8 What Do Your Students Really Know About Fractions? Jennifer Hanzak & Elizabeth Christenson	55 3-8 Turning Elementary Students into Mathematicians With Engaging Problems Jenna O'Dell	75 6-8 Making Middle School Math Come Alive Mark Christenson
Harbor Side 203	36 General Teaching is Your Superpower Jacqueline Krohn	56 General Building an Effective Classroom Community Through Student Centered Learning Cheryl Tucker	76 9-College Tools & Technology for Mathematics Instruction Tim Harms
Harbor Side 204	37 6-12 Turning In-Out Tables into Structure Revealing Machines Christy Pettis & Terry Wyberg	57 General Exploring Geometry Through Mathematical Art Megan Schmidt	77 General Surviving the First Years of Teaching Terry Wyberg, Larry Luck, Zack Alexander, Rosina Drury & Kelsey Raasch
Harbor Side 205	38 College Considering a Math Lit/Quantative Reasoning Path For Your School? Andrea Buettner, Nicole Lang & Sara Van Asten	58 College Next Gen Accuplacer Placement Test, Now What? Beth Hentges	78 General MinnMATYC Open Forum and Annual Meeting MinnMATYC Board
Harbor Side 301	39 6-12 Transform Teaching and Learning With MathXL for School Kelly Kukull & Bryan Wilson PUBLISHER SESSION	59 General Investing in Teachers: MCTM Foundation Rosemary Heinitz	79 Adult Learner/General Using Universal Design to Support ELLS Danielle Legault & Kristine Klas
Harbor Side 302	40 General Parable of the Polygons – Looking at Segregation Mathematically Seth Leavitt	60 General Removing Barriers and Embracing Diversity so Students Can Envision Themselves as Mathematical Thinkers Cindy Kaus	80 General Name & Re-frame Inequities in Math Instruction Kim Wingrove, Rachel Mork & Warren Taylor
Harbor Side 303	41 College Increase Student Success Through ALEKS Placement Patti Arneson	61 General From Counting to Calculus: What Stays the Same? Christopher Danielson	81 3-8 Understanding Negative Numbers Through Games and Activities Christy Pettis & Aran Glancy
Harbor Side 304	42 PreK-5 5 Ways Elementary Teachers Can Support Learning in Secondary Laura Wagenman & Sara VanDerWerf	62 General Hyperdocs in the Math Classroom Becky Rahm	82 9-12 How to Increase Rigor With Written Assessments Rachel Baker
Harbor Side 305	43 6-12 CONNECT: Planning Lessons with #MTBoS Megan Rubbelke	63 6-12 Posing Purposeful Questions to Promote Student Learning Lisa Fisher-Comfort	83 6-12 Tracking and the Racial/Socioeconomic Mathematics Achievement Gap Amber Armstrong & Dr. Todd Frauenholtz
Ballroom L	44 General MCA Update from MDE Penny Houtz, Jennifer Dugan, Ann Page & Angela Hochstetter	64 General MDE Reports & Resources Holly Brunson, Angela Hochstetter & Ann Page	84 General "Testing 1, 2, 3" - MDE's Teacher Website Feedback Session Holly Brunson, Angela Hochstetter & Ann Page
Ballroom M/N	45 6-12 Using the Common Core Mathematical Practices to Increase Student Engagement Dave Kennedy	65 9-12 Grading for Learning in the Math Classroom Rob Warneke	85 PreK-5 Open Tasks for all Seasons Cathy Norton
Ballroom O	46 General Oh My - We Want New Math Materials. . . Renee Voltin & Mandy Freese	66 General Leadership for Reaching Each and Every Learner Emily Larsen	86 General Continuing the Conversation MCTM Region Directors
French River 1	47 3-5 Multiplicative Thinking- Helping Students Conceptually Understand Erin Murray	67 PreK-2 Fostering Math Talk and Number Sense Through Books Julie Ostlund	87 PreK-2 Number Sense + Play = Mathematicians Michelle Kennedy & Michelle Asche
French River 2	48 General A Process to Address Curriculum Gaps Sue Wygant, Michele Luke & Courtney LaRoche	68 6-12 CONNECT: Assessments Extravaganza Dan Bungert	88 PreK-5 P3: Proactive Partnering with Parents in Mathematics Cheryl Piotraschke, Doris Lemanski & Trevor Abel

FRIDAY AFTERNOON WORKSHOPS

ROOM	1:30 PM – 3:00 PM	3:30 PM – 5:00 PM
St. Louis River Room	49 General Using Student Work to Promote Discourse Rochelle Rank & Nichole Hughes	69 9-College Be Above Average: Teaching Introductory Statistics for Deeper Understanding Michael Huberty, Adam Gust, Melissa Hanson, Scott Swendiman, Matthew Mullenbach & Andrew Zieffler
Gooseberry Falls 1	50 Adult Learner/General Let's Explore Growth Mindset Rebecca Strom	70 6-12 Breaking Up the Math Class Hierarchy Chris Robinson & Nicole Bridge
Gooseberry Falls 2	51 6-12 Let's Code in Math Class Will Abbott	71 9-12 Developing Proofs Through Activities and Technology Karen Hyers
Gooseberry Falls 3	52 General Using Google Apps to Increase DOK, Collaboration, and Rigor Jessica Strom	72 6-12 Using Custom Desmos Activities for Communicating Mathematically Molly Olson
Split Rock 1	53 PreK-5 Assessment as a Tool for Deepening Understanding Lynn Billett & Margaret Williams	73 3-8 Developing Meaningful Models for Decimal Understanding Michael Wallus
Split Rock 2	54 6-12 Interactive Notebooks--Your 1-Stop-Shop for Math Class Rachel Price	74 General Academic Language – Practical Strategies for All Learners Teresa Gonske

SATURDAY SESSIONS

ROOM	8:15 AM – 9:15 AM	9:25 AM – 10:25 AM	10:35 AM – 11:35 AM	11:45 AM - 12:45 PM
Harbor Side 202	89 6-12 Using Technology in an Alternative Learning Center Raymond Ostfeld	109 6-12 Using Inquiry to Build Thinking Classrooms Gail Burrill	129 6-12 Using Data to Make Decisions Gail Burrill	149 6-8 Meeting Environmental Challenges With Math Joan Kwako
Harbor Side 203	90 3-8 Using STEM to Support the M Aran Glancy	110 6-12 The 'H' Word Sara VanDerWerf	130 General Catalyzing Change: NCTM's Newest Document Robert Berry III KEYNOTE SPEAKER	150 6-12 Transform to a Computational Thinking Environment Nicholas Springer
Harbor Side 204	91 Adult Learner/General Close Reading to Solve Word Problems Cale Cripe & Jonathan Weiss	111 PreK-5 Changing Mindsets System Wide R. Gunsolus, L. Wagenman, T. Provart, U. Sanders, B. Erickson & R. Bisson	131 6-12 Experience-First Statistics: Exploring Statistical Inference Through Activities Jonathan Osters	151 6-12 Mathematics of "Who Wants To Be A Millionaire" Mike Reiners
Harbor Side 205	92 6-8 Supporting Middle School Math Intervention Janet Knoll, Peter Nelson, Alison Jirik & Rebecca Kanive	112 College Accelerated Developmental Course That Works Bruce Bordwell & Lee Erickson	132 Adult Learner/General Exploring the Introduction of a Fraction: What Does it Represent? Tom Kroger	152 Adult Leaner/9-College Yikes, My Students are Escaping Math! Terri Ferris
Harbor Side 301	93 Adult Learner/General Working With Difficult and Challenging Students Randy Feldsien	113 College Multiple Measures in Course Placement Stephanie Houdek & Sandra Johnson	133 College NGA's, QAS, Then What? Tammy Fitting	153 Adult Learner/6-12 Where Did That Formula Come From Andy Albee
Harbor Side 302	94 PreK-5 Do This, Not That! Dawn Dibley	114 9-College Bridging Secondary and Post-Secondary Mathematics Learning Experiences Teresa Gonske	134 PreK-2 Let's Talk About Numbers! Katie Auer	154 PreK-5 From Standards to Stages Mary Lambrecht & Sarah Hunter
Harbor Side 303	95 6-12 Using Tableau to Teach Through Data Visualization Tracy Bibelnieks & Leah Wahl	115 General Building Capacity: Teacher Leaders and Instructional Review Jane McDonald	135 9-College Moving Students to Synthesis and Evaluation: Calculus Showcase Charles Kruger & Brittany Benson	155 6-12 Ten Challenging Math Problems and Problem-Solving Strategies Ed Zaccaro
Harbor Side 304	96 6-12 Successes in Algebra Intervention Andy Pethan & Brandon Vogen	116 3-8 Using Money and Time to Add Fractions Elizabeth Christenson & Jennifer Hanzak	136 6-8 Multiple Representations of Algebra Todd Frauenholtz & Charity Ridlon	156 General The Language of Math Sophie Snell & Kim Wingrove
Harbor Side 305	97 6-12 Students With Disabilities in the Math Class Jennifer Williams	117 PreK-5 Closing the Gap by Raising the Bar Emily Payán & Margaret Williams	137 General Using TED-Ed Lessons to Engage Learners Susan Herder & Jessica Breuer	157 9-12 Project-Based Learning in the Geometry Classroom Molly Thorson
Ballroom L	98 Adult Learner/General Partnering Between ABE/Adult Ed. And Minnesota State Amber Dellenger & Jody Greniger	118 College Prerequisite Checks for a Successful Semester Patrick Fingerson & James Kolles	138 9-College Make Concurrent Enrollment Courses Successful for All Students Troy Faulkner	158 College Get Knerdy With Knewton Amber Shoffey
Ballroom M/N	99 PreK-5 Connecting Effective Teaching and Student Learning Carolyn Olijnek	119 General MDE Mobile Analytics Holly Brunson	139 3-8 Keeping it Real...Fun! Camille Mattson, Roni Monson & Stephanie Enge	159 General Addressing Status Issues to Support Student Collaboration Cheryl Tucker
Ballroom O	100 6-12 Around the Room Carly Norman & Linda Olson	120 Adult Learner/3-5 Developing Adult Numeracy Skills James Brickwedde	140 3-8 Engaging in Number Talks Outside of the Classroom Adriel Ockelmann & Brent Pottinger	160 6-12 Engaging Activities For The Concept Level Students Mike Floersch
Split Rock 1	101 General Continuing the Conversation MCTM Region Directors	121 6-12 Why Math is Unnecessary Brooke Williams	141 General Equity Strategies & Resources for Mathematics Teaching and Learning Sue Wygant	161 3-8 Tug-of-War: Engaging Activity for Multiple Abilities Abrianna Mellesmoen & Dr. Jenna O'Dell
Split Rock 2	102 6-12 Lost in Space: Bone Density Tracey Zak Johnson	122 9-College AP Calculus Formative Assessment With or Without Technology Lisa Conzemius	142 6-12 Linear or not?? That is the Question! Tracey Zak Johnson	162 PreK-5 Nix (Teaching) the Algorithm—Getting Colleagues on Board Tara Gibbs & Candace Johnson

SATURDAY SESSIONS AND WORKSHOPS

ROOM	8:15 AM – 9:15 AM	9:25 AM – 10:55 AM	11:15 AM – 12:45 PM
French River 1	103 Grants Are Available Susanne Westegaard General	123 Investigating the Arc of Arithmetic to Algebra Elizabeth Peyser 3-8	143 Exploring Angles in Three Ways Elizabeth Peyser 3-8
French River 2	104 Free Tools From IBM's Teacher Advisor With Watson Sarah Ness 3-5	124 How Can I Solve It? Algebra Tiles Can! Mark Christenson 6-12	144 Whiteness in Our Classrooms (An Equity Discussion) Nicole Bridge & Barb Everhart General
Gooseberry Falls 1	105 Logic Puzzles - A Brilliant Deduction Bill Tomhave General	125 Shaping Classroom Discourse Through Creative Representations Aran Glancy & Christy Pettis 3-8	145 Standards, Rigor and Resources Erik Durand & Carolyn Olijnek PreK-5
Gooseberry Falls 2	106 Teach Multi-Grade-Level Students With Multi-Math in One Classroom Hsuehi Lo & Kevin Beneke PreK-5	126 Using NAEP Items in Your Classroom Jennifer Cain General	146 Math Film Fest: <i>How We Deliver Instruction</i> Lindsay Cermak Adult Learner/General
Gooseberry Falls 3	107 Sparkling Intellectual Curiosity & Passion in Mathematically Gifted Students Ed Zaccaro 6-12	127 Strategies to Improve Vocabulary and Reading Dan Vrieze & Hannah Bauman 6-12	147 Students Code with Desmos to Inspire Mathematical Thinking Scott Adamson 9-College
St. Louis River Room	108 Network for Active Learning Mike Weimerskirch 6-12	128 Building Communities and Student Discourse Colleen Atakpu-Shiggs & Christopher Wernimont 6-12	148 Deepening Conceptual Multiplication and Division Understanding Lori Harris & Lynn Billett 3-8

SATURDAY EXHIBIT HALL SESSIONS

9:25 AM – 10:25 AM	10:35 AM – 11:35 AM
<p style="text-align: center;">McGraw-Hill Education</p> <p style="text-align: center;">K-12 Personalized Adaptive Math Tools Jeremy Pinson</p>	<p style="text-align: center;">ORIGO Education</p> <p style="text-align: center;">A Strategic Approach to Teaching Basic Number Facts Theresa Norris</p>