

Friday Morning Sessions

ROOM	9:45 AM - 10:45 AM	11:00 AM - 12:00 PM
Harbor Side 202	1 Climate Change: Math Modeling Activities Using Gore's Data Speaker: Tom Reardon	21 Gerrymandering, Compactness, and the Efficiency Gap Speaker: Alex Fisher
Harbor Side 203	2 How to Use Geometer's Sketchpad in the Classroom Speakers: Meghan Brautigam, Alex Mannausau, Cheryl Wulff, and Jenna O'Dell	22 3 Specific Ways to Do Personalized Learning in the HS Math Classroom Speaker: Shannon Seaver
Harbor Side 204	3 Flipping Your Classroom To Promote Discourse Speaker: Bryan Scherr	23 CONNECT: Templates Every Beginning Teacher Needs for Their Classroom Speaker: Megan Rubbelke
Harbor Side 205	4 Redesigning the Future of Math Instruction Speaker: Rochelle Beatty	24 Some Problems for Liberal Arts Math Classes Speaker: Clyde Eklund
Harbor Side 301	5 Success Rates after the Implementation of ALEKS PPL Speakers: Patti Arneson and John Hansen	25 Using MyMathTest as a Placement Tool Speaker: Tammy Fitting
Harbor Side 302	6 Routines to Increase Number Sense Speaker: Jessica Strom	26 Removing the Mystery of Word Problems Speaker: Lindsey Cermak
Harbor Side 303	7 Successful Homework - Practicing Independence The Power of Short Math Videos. Speaker: Kelly McQuay	27 Differentiating Instruction with GCF and LCM Speaker: Nic Gilbertson
Harbor Side 304	8 Working with Students in an Online Environment.. Speaker: Connie McTavish	28 Progressive and Regressive Mathematization Speaker: Dawn Dibley
Harbor Side 305	9 The Mantis Shrimp: Promoting Discourse for EL Students Speaker: Megan Abendroth	29 A Problem to Facilitate Students' Discourse Toward Generalizations Speakers: Jenna O'Dell, Todd Frauenholtz, Kylie Higgins, and Gunnar Larson
French River 1	10 Best Teacher Choice I've Made: Written Assessments Speakers: Rachel Baker and Sophie Kasahara	30 More Math Games Speaker: Molly Olson
French River 2	11 How Are You Teaching Basic Arithmetic Operations? Speaker: Glen Richgels	31 The Quantile Framework for Mathematics = Equity in Math Speaker: Jane Scott
Ballroom L	12 Minnesota in Top 10 Using IBM's Teacher Advisor Speakers: Bill Putnam and Sarah Ness	32 A Culturally Sensitive Mathematics Classroom IS Possible Speakers: Barb Everhart and Lesa Clarkson
Ballroom M/N	13 Love, Oprah, & Bootstraps: Social Justice Mathematics Speakers: Erin Baxter, Nate Earley and Jennie Huss	33 Developing Number Sense: Learning Number Word Sequences Speaker: Laurie Rogers-Karl
Ballroom O	14 Creating Discourse in the Flipped Classroom Speakers: Elise Morell and Sara VanDerWerf	34 Making Student Thinking Visible Speaker: Sara VanDerWerf

Friday Morning Workshops

ROOM	10:00 AM - 11:30 AM	
St. Louis River Room	15	6-8
	Multitiered Systems of Support (MTSS) for Math Intervention Speaker: Carissa Simonet	
Gooseberry Falls 1, 2 and 3	16	General
	Now, This is my All-Time Favorite PS. Speaker: Fawn Nguyen <i>** This session will take place from 10:15 AM - 11:45 AM **</i>	
Split Rock 1	19	3-5
	Deepening Conceptual Understanding of Multiplication and Division Speakers: Lori Harris and Lynn Billett	
Split Rock 2	20	6-8
	Venn Diagrams and STEM Integration Speakers: Debbie Monson and Rebecca Glover	

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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
Knewton Education	Houghton Mifflin Harcourt	Pearson	Minn State	ORIGO Education
Affordable, Accessible, Adaptive: Knewton's Alta	Sneak Peek at HMH's New 2020 Into Math K-12	Lets Get Messy! Mathematical Modeling	Graduate Certificate in Mathematics at Metropolitan State University	Developing Thinking Strategies for Addition/Subtraction and Multiplication/Division
Speaker: Marissa Geyer	Speaker: Pamela Richards	Speakers: Andy Swank and Mindy Strom	Speaker: Rikki Wagstrom	Speakers: Rob Nickerson and James Burnett

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 Activities and Courses in Mathematical Studies with Programming Speakers: Tim Harms and Jena Backet 9-12	55 Creative Activities, Strategies, Technology: Prepare for the ACT Speaker: Tom Reardon 9-12	75 Continuing the Conversation Beyond the Conference Speaker: Kristen Helland General
Harbor Side 203	36 Strategies to Get Your Students Working Together Daily! Speaker: Jessica Rice General	56 Composition: It's a Factor so Come to Terms w/ It! Speakers: Kari Anderson, Bruce Bordwell, and Amber Delliger General	76 Surviving the First Years of Teaching Speakers: Terry Wyberg (moderator) and Larry Luck (moderator) General
Harbor Side 204	37 Teaching Logarithms Using Outdated Technology Speaker: Dan Bungert 9-12	57 Culturally Responsive Teaching and Learning of Mathematics Speaker: JoAnne Norby-Davis 6-8	77 Opening the Ceiling for Advanced & Gifted Learners Speaker: Lisa Willman 3-5
Harbor Side 205	38 Making Connections to Math Skills through Math Vocabulary Speakers: Marci Vaiphei and Ruth Stevens Adult Learner	58 What Does it Mean to Multiply? Why 4×5 is Not the Same as 5×4 . Speaker: Tom Kroeger General	78 Boosting Math Confidence Levels to Decrease Anxiety Speaker: Cale Cripe General
Harbor Side 301	39 Two Birds - One Quiz Speaker: Sara Van Asten College	59 A Perfect Topic for the 1st Day of Class Speaker: Mark Omodt College	79 MinnMATYC Open Forum and Annual Meeting MinnMATYC Board
Harbor Side 302	40 How Not to Begin Your Teaching Career Speaker: Glen Richgels General	60 Conversations in Higher Ed part 1 Speaker: Debbie Monson College	80 Counting Collections as a Tool for Advancing Mathematical Thinking Speaker: Margaret Williams PK-2
Harbor Side 303	41 Multiplying Fractions - Reunitizing Area Speaker: James Brickwedde 3-5	61 Student Success from Your Own AP Stats Tests Speaker: David Peschman 9-12	81 Growth Mindset Lessons and Grading Speaker: Dan Vrieze 9-12
Harbor Side 304	42 Building Bridges: Enhancing Student Thinking with Estimation Speakers: Laura Wagenman and Greta Bergman 6-8	62 Tech Tools for Math Speaker: Amanda Thompson 6-8	82 Financial Literacy through Coin Flips Speaker: Christopher Smith 9-12
Harbor Side 305	43 5W + H = 8 Effective Practices? Speakers: K.C. Holder, Allison O'Brien, Phoebe Osterhus, and Caitlyn Tully Adult Learner	63 Beyond One-half Base Times Height, Triangular Area Investigations Speaker: Nic Gilbertson 9-12	83 College Statistics and Fostering Community Collaboration Speakers: Dianna Hazelton and Tammie Doebler 9-12
Ballroom L	44 Identity and Experience Speakers: Barb Everhart and Lesa Clarkson General	64 Blindspots and Implicit Bias Speakers: Barb Everhart and Lesa Clarkson General	84 Raising the Bar with your Number Talks Speaker: Cathy Nolte 3-5
Ballroom M/N	45 Teaching Math through Science Speaker: Sophie Kasahara 6-8	65 Who's Got the Power? (3-5 and 6-8) Speaker: Courtney LaRoche 3-5	85 Hexflexagons: The Mathematical Cootie Catchers Speakers: Rebecca Glover, Pamella Portillo, and Sofia Garcia-Velez PK-2
Ballroom O	46 Creating an Engaged Classroom Speakers: Mike Floersch and Tom Taylor 9-12	66 Understanding How to Teach for the MCA Exam Speaker: Mike Floersch General	86 Assessment (MCA) Foundations (101) Speakers: Angela Hochstetter and Ann Page General
French River 1	47 Escape the Math Classroom Speakers: Suzanne Scheuerlein and Lousie Hinz 6-8	67 Conferring in Your Math Workshop Speakers: Heidi Clendening and Rebecca Bang PK-2	87 Growth Mindset Speaker: Suzanne Scheuerlein 6-8
French River 2	48 Purposeful Planning Knowing Your Kid's Learning Through Activities Speaker: Christine Quisley PK-2	68 Effective Strategies to Promote Discourse & Student Engagement Speaker: Cheryl Tucker 6-8	88 Continuing the Conversation Beyond the First Raised Hand! Speaker: Pamela Richards 3-5

Friday Afternoon Workshops

	ROOM	1:30 PM - 3:00 PM	3:30 PM - 5:00 PM
	St. Louis River Room	49 PK-2 Developing Fact Fluency through Visual Models Speaker: Rob Nickerson	69 9-12 The Enabling Power of Guess-and-Check Tables Speaker: Mike Reiners
	Gooseberry Falls 1	50 General Coaching Towards the 8 Effective Math Teaching Practices. Speaker: Jessica Breur	70 General What Repeats: How Do People Learn Patterns? Speaker: Christopher Danielson
	Gooseberry Falls 2	51 3-5 Ready, Set, Play! Practicing Number Sense with Games Speaker: Cassandra Turner	71 6-8 Using Literacy to Build Bridges to Math Understanding Speaker: Sarah Galasso
	Gooseberry Falls 3	52 General It's More Than "Can you Explain your Thinking?" Speakers: Marium Toure and Christopher Wernimont	72 Adult Learner (Re)Building Adult Numeracy Speaker: James Brickwedde
	Split Rock 1	53 PK-2 Playing with Tens: Games for Building Number Sense Speaker: Christy Pettis	73 6-8 Notice and Wonder: A Focus on Student Thinking Speaker: Steve Weimar
	Split Rock 2	54 9-12 Purposeful Questioning to Support Student Learning and Identity Speaker: Lisa Comfort	74 9-12 Building Understanding of Equations Using Algebra Tiles Speaker: Mark Christenson

MCTM Members, join us for Regional Meetings from 5:15 - 6:00 p.m. Friday!

Region	Room	Director
1	St. Louis River Room	David Kennedy
2	Ballroom L	Bob Foley
3	Gooseberry Falls 1	Dawn Dibley
4	Ballroom O	May Vang
5	Split Rock 1	Janee Rivard-Johnson
6	Ballroom M/N	Jésus Sandoval
7	Gooseberry Falls 2	Jessica Strom
8	Gooseberry Falls 3	Kristen Helland

Don't know your region? Check your nametag!

MinnMATYC Open Forum & Annual Meeting

**Harbor Side 301
4:00 - 5:00 p.m.**

ATLAS - Adult Basic Education Gathering

**Split Rock 2
5:15 - 6:00 p.m.**

Saturday Morning 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 Spirit of Innovation Exploring Math with New TI Rover Speaker: Lisa Conzemius	109 Spirit of Innovation Exploring Math with TI Innovator Hub Speaker: Lisa Conzemius	129 OEMS FTC Robotics - A Thank You Demonstration Speaker: Timothy Churchill	149 Fractions on the Number Line: Reconstructing the Unit Speakers: Debbie Monson and Terry Wyberg
Harbor Side 203	90 Math Foundations/Adult Education: A Working Math Sequence Partnership Speakers: Jody Greniger and Jennie Westin	110 How Writing for Structure Builds Bridges Among Representations Speakers: Terry Wyberg and Christy Pettis	130 Math Games to Start Your Day Speaker: Andy Albee	150 Introduction to ClassPad.net Speaker: Mike Reiners
Harbor Side 204	91 Conversations in Higher Ed Part 2 Speaker: Debbie Monson	111 Strategies to Support Developing Positive Math Identities Speaker: Lisa Comfort	131 The Problem with Math is English Speakers: Mary Lambrecht and Christine Kennedy	151 Eco-Math: Calculations for People and the Planet Speaker: Joan Kwako
Harbor Side 205	92 Implementing the DESR on Your Campus Speakers: Katie Smieja and Cindy Kaus	112 Teaching StatPREP in the Classroom Speaker: Joe Roith	132 Exploring Mathematical Knowledge for Teaching Speakers: Dexter Lim, Megan Breit-Goodwin, Irene Duranczyk, and Nicole Lang	152 Teaching Mathematics through Civic Issues Speaker: Cindy Kaus
Harbor Side 301	93 Non-Zero Sum Games- The Prisoner's & other Dilemmas Speaker: Bill Heider	113 Doing a Better Job with Placement. Speaker: Todd Wadsworth	133 Math with an Assist from Coding- 2nd Grade - College Speaker: Jerome Caldwell	153 Using a Math History Investigation Game in College Speakers: Jeffrey Jones and Tami Niswander
Harbor Side 302	94 The Thinking Classroom: Student Engagement, Discourse, and Thinking. Speaker: Jessica Strom	114 CANCELLED	134 Why Didn't Anyone Tell Me About This Sooner?!!! Speaker: Jessica Strom	154 Academic Conversations in Math: Co-Construct Meaning: Talk Moves and the Socratic Seminar Speakers: Meagan Hymes and Amber Delliger
Harbor Side 303	95 Exponential Growth and the Racial Wealth Gap Speaker: Hannah Welle	115 Understanding and Using MNSciMath Site to Drive Instruction Speaker: Christine Quisley	135 Improving Student Discussion with Highly Procedural Content Speaker: Nic Gilbertson	155 How I Get Students to Talk About Math! Speaker: Rachel Baker
Harbor Side 304	96 CANCELLED	116 Level Up - Gamification in 9th Grade Math Speakers: Francis Olsem and Emily Kjesbo-Johnson	136 Not Everyone Can Connect to Pizza Speakers: Christopher Wernimont and Marium Toure	156 Are you a Successful Teacher? Speaker: Glen Richgels
Harbor Side 305	97 CANCELLED	117 Engaging Activities for Middle School Math Speaker: Mark Christenson	137 Geometry of Gerrymandering and Other Election Math Speaker: Meredith Webster	157 Building a Mathematical Community Through Effective Discourse Speaker: Dan Vrieze
Ballroom L	98 "Now where did I put that?" Build Independence and Simplify Life Through Google Classroom! Speaker: Kelly McQuay	118 Thinking Beyond Mathematical Mindset: A Focus on Equity Speaker: Jennie Diaz	138 Learn to PLAY Math! (K-5) Speaker: Courtney LaRoche	158 Modeling Fraction Division Speakers: Mandy Freese and Barb Everhart
Ballroom M/N	99 Multi-digit Multiplication: Explicitly Working with Factors of Ten Speaker: James Brickwedde	119 Self-Pacing an Entire Grade Level & the Outcomes Speaker: Michael Krech	139 Increasing Student Engagement in a Blended Learning Program Speaker: Allison Rapp	159 Data Driven Instruction Speakers: Suzanne Scheuerlein and Ishmael Robinson
Ballroom O	100 The Hidden Mathematics of Children's Toys Speaker: Dan Bungert	120 Testing 1-2-3 & NEW Benchmark Report Design Speakers: Kendra Olsen and Katie Beattie	140 Teaching Mathematical Ideas vs Tricks Speaker: Sara VanDerWerf	160 MCA Update from MDE Speakers: Penny Houtz and Jennifer Dugan
Split Rock 1	101 Sense-Making Math Meets Career-Ready Coding Speaker: Ashley Tewes	121 Equity: The 6th "E" in a 5Es Lesson Speakers: Natasha Parker-Galyen and TBD	141 Engage Students in Math Through GAMES Speaker: Barbara Kotzer	161 Counting Collections: It Isn't Just for Kindergarteners! Speaker: Michael Wallus
Split Rock 2	102 Early Number Sense Through Stories Speaker: Ann Vogel	122 Whatever It Takes - Really? Speakers: Patti Bambenek and Ed Lewis	142 Using CK-12 in The Classroom Speaker: Raymond Ostfeld	162 Watson We Have Found the Missing link! Let Me Draw You a Picture! Speaker: Pamela Richards

Saturday Morning 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 3-5 Building Equal Status by Fours Speakers: Terry Wyberg, Janee Rivard-Johnson, and Elisabeth Hendrix	123 3-5 Strategic Thinking that Develops Multiplication and Division Speaker: Rob Nickerson	143 6-8 Math Games for 6-8: Changing their Minds Speakers: Heidi Hansen and BSU student
French River 2	104 PK-2 Exploring the Power of Open Questions Speaker: Courtney LaRoche	124 9-12 Implement Problem Based Learning in Algebra Tomorrow! Speaker: Paula Sadler Fuhr	144 6-8 Establishing a More Social and Creative Classroom with Desmos Speakers: Jessica Breur and Christopher Danielson
Gooseberry Falls 1	105 6-8 Addressing Status Issues to Support Student Learning Speaker: Cheryl Tucker	125 General MN STEM Teachers Center: Frameworks for Standards Speaker: Lisa Rezac **This Session is an hour, 9:25 AM to 10:25 AM**	145 3-5 Let Them Struggle: Fostering a Classroom Rich in Discourse Speaker: Rob Nickerson
Gooseberry Falls 2	106 6-8 Escape the Math Classroom (Repeat of FRI Session 47) Speakers: Suzanne Scheuerlein and Lousie Hinz	126 Adult Learner Integrating Soft Skills to Achieve Success Speakers: Kathryn Chiqui and Amber Delliger	146 General Multiplication and Division Models Through the Years Speaker: Kay Wohlhuter
Gooseberry Falls 3	107 9-12 Video Textbooks in the Active Learning Classroom Speaker: Mike Weimerskirch	127 6-8 The Benefits of Math Corps for Your School Speaker: Megan Peterson **EXHIBITOR SESSION **This Session is an hour, 9:25 AM to 10:25 AM**	147 6-8 Factoring and Fun With Spirographs Speakers: Lewis Istok and Heather Krumwiede
St. Louis River Room	108 9-12 Let's #noticewonder What?! Speaker: May Vang	128 PK-2 Taking Math to Court Speakers: Emily Payán and Margaret Williams	148 Adult Learner Making Sense of Dividing by Fractions Speakers: Abby Roza and Rebecca Strom

SATURDAY MORNING EXHIBIT HALL SESSIONS

8:15 AM - 9:15 AM	9:25 AM - 10:25 AM	10:35 AM - 11:35 AM
Houghton Mifflin Harcourt Sneak Peek at HMH's New 2020 Into Math K-12 Speaker: Pamela Richards	MathRack Every Operation Tells A Story Speaker: Lynn Rule	EXHIBITOR RtI for Math: The Next Frontier Speakers: Lynn Lamers and Ashley Protivinsky