

## FRIDAY MORNING SESSIONS

ROOM	9:45 AM – 10:45 AM	11:00 AM – 12:00 PM
St. Louis River Room	1 General First-Timers' Orientation <b>Sara Van Der Werf &amp; Ellen Delaney</b> REPEAT FROM 7:30-8:30 a.m.	Networking Lounge – Standards Based Grading Secondary hosts: <b>Morgan Fierst &amp; Maren Zobott</b> Elementary host: <b>Lynn Billet</b>
Harbor Side 202	2 6-12 CONNECT: What to Do With Support/Remedial Classes? <b>May Vang</b>	22 6-8 Connecting Math to Our Global Society <b>Joan Kwako</b>
Harbor Side 203	3 General The Coach, The Novice, and The Expert <b>Barb Everhart</b>	23 9-12 High School Problem Strings <b>Pamela Weber Harris</b> <b>KEYNOTE SPEAKER</b>
Harbor Side 204	4 3-8 Everyone Participates, Everyone Learns, Everyone Shares <b>Sue Benhardus &amp; Bonnie Farrell</b>	24 PreK-5 Money Puzzles <b>Nina Smith &amp; Sarah Moffett</b>
Harbor Side 205	5 8-College Connecting Neuroscience and Education <b>Tammy Fitting</b>	25 College Minnesota State Update on Developmental Education <b>Pakou Yang, Mike Tieleman, Tamara Fitting &amp; Cindy Kaus</b>
Harbor Side 301	6 General Shor's Quantum Algorithm Attack on RSA Encryption <b>James Carr</b>	26 General Faculty Network <b>Mel Taylor</b>
Harbor Side 302	7 3-5 Building Mathematical Thinkers in Multiplication & Fractions <b>Doris Lemanski &amp; Cathy Rawitzer</b>	27 7-College Spice it Up <b>Christine Bettendorf &amp; Laurie Yourk</b>
Harbor Side 303	8 General Shifting Instructional Practices <b>Michael Wallus</b>	28 6-12 Numbers and Nuance: Math in the News <b>Alex Fisher</b>
Harbor Side 304	9 6-12 Embedding Code in Math Class <b>Mike Larson</b>	29 9-12 How We Started to Personalize Math in High School <b>Shannon Seaver &amp; Meghan Brautigam</b>
Harbor Side 305	10 6-12 Experience-First Statistics: Activities to Promote Statistical Thinking <b>Jonathan Osters</b>	30 General The Power of Stories in the Classroom <b>Jesus Sandoval</b>
Ballroom L	11 9-College Parametrics for Beginners <b>David Kapolka</b>	31 3-8 Newly Released MCA Items with Data <b>Angela Hochstetter, Ann Page &amp; Holly Brunson</b>
Ballroom M/N	12 General Using DOK Levels in Writing Assessments <b>Lisa Willman</b>	32 PreK-5 Math Workshop: Meeting the Needs of Everyone <b>Ann Bernard &amp; Jill Thomas</b>
Ballroom O	13 PreK-5 Developing Derived Strategies in Learning the Basic Facts <b>James Brickwedde</b>	33 3-8 Open Number Lines: Build Mental Math Skills <b>Libby O'Connell</b>

## FRIDAY MORNING WORKSHOPS

ROOM	10:00 AM – 11:30 AM	
St. Louis River Room	14	PreK-2
	Oh the Math That They'll Know <b>John Felling</b>	
French River 1	15	3-8
	Mathematical Mindsets: Math Education for Everyone <b>Melissa Favero</b>	
French River 2	16	6-12
	Cultivating a Culturally Responsive Lesson Planning Practice <b>Christopher Wernimont &amp; Colleen Atakpu-Shiggs</b>	
Gooseberry Falls 1	17	6-12
	Strategies to Help Students Access Fundamental Statistical Concepts <b>Gail Burrill</b>	
Gooseberry Falls 2	18	PreK-5
	Beading to Understand Place Value <b>Anne Meyer &amp; Melissa Hanzsek-Brill</b>	
Gooseberry Falls 3	19	3-8
	Purposeful Math Instruction-Success for All Students <b>Becky Wallerick</b>	
Split Rock 1	20	3-8
	The Leaf Problem: Helping Students Interpret Real Data <b>Aran Glancy</b>	
Split Rock 2	21	6-8
	Making Middle School Math Come Alive <b>Kristine Powell</b>	

## 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	34 <b>CANCELED</b> PreK-5	54 CONNECT: What Classroom Management Really Looks Like <b>Alison VonAchen</b> General/6-8	74 Cipher Solvers: Creatively Integrate Algebra, Geometry, Cryptography Grades 7-12 <b>Tom Reardon</b> 6-12
Harbor Side 203	35 Algebra in Exercise <b>Paul Kelley</b> 6-12	55 Helping Students See Mathematical Structure <b>Sara Van Der Werf</b> 6-12	75 Interactive Notebooks--Your 1-Stop-Shop for Math Class <b>Rachel Price</b> 6-12
Harbor Side 204	36 Bootstrap: Solving Word Problems through Algebraic Programming <b>Emma Youndtsmith</b> 6-12	56 Integers: Why the Struggle is Worth It <b>Christy Pettis &amp; Aran Glancy</b> 3-8	76 Using Technology & Games to Review <b>Mike Floersch</b> General/College
Harbor Side 205	37 Accuplacer, MCA, ACT, and SAT: Oh my! <b>Beth Hentges</b> College	57 Rethinking Developmental Arithmetic for the Adult Learner <b>Sara Van Asten</b> College	77 MinnMATYC Open Forum and Annual Meeting <b>MinnMATYC Board</b>
Harbor Side 301	38 Finding Money: MCTM Grants and Scholarships <b>Nancy Nutting &amp; Rosemary Heinitz</b> General	58 Math Without Words. Eliminating the Language Barrier <b>Allen Thomas</b> 3-8	78 Organizing Faculty Influence in Public Higher Ed <b>Clyde Eklund</b> College
Harbor Side 302	39 Two Player Games <b>Ashley Priem</b> General	59 Women's March to STEM Equity <b>Nina Bohrod</b> College	79 Mathematics: From Industry to the Classroom <b>Emile White</b> K-College
Harbor Side 303	40 Embracing Number Talks in the Classroom and at the District Level <b>Veronica Mathison, Terry Wyberg &amp; Benjamin Richards</b> K-12	60 Factoring Cubic Polynomials: Just Like Quadratics! <b>Megan McCormick &amp; Brenna Dunne</b> 9-College	80 Multiplication Facts with Multiple Intelligences and Strategies <b>Bonnie Magnuson</b> 3-8
Harbor Side 304	41 Multiplying Fractions Using Hands-On Measurement Models <b>Nicholas Gilbertson</b> 3-8	61 Growth Mindset in Probability and Statistics <b>David Lyon</b> 6-12	81 Number Relationship Activities <b>Barbara Bengtson, Leslie McDougall, Haley Bengtson &amp; William Bengtson</b> PreK-5
Harbor Side 305	42 Mathematical Discourse in a Student Centered Classroom <b>Dan Vrieze</b> 6-12	62 Using Open Number Lines to Promote Flexible Thinking <b>Cheryl Piotraschke, Candace Johnson &amp; Theresa Pfeilsticker</b> PreK-5	82 Co-Teaching Algebra for Conceptual Understanding <b>Andy Pethan &amp; Rachel Wrolstad</b> 6-12
Ballroom L	43 MCA Update Grades 3-8 and High School <b>Holly Brunson, Ann Page &amp; Angela Hochstetter</b> General	63 Teacher Analysis of Student Thinking <b>Sue Wygant</b> General	83 Creating Customized Tests and Lessons Using Perspective <b>Ann Page</b> 6-8/General
Ballroom M/N	44 A Culturally Sensitive Classroom IS Possible <b>Barb Everhart &amp; Lesa Covington Clarkson</b> General	64 Differentiation Through "Low Threshold, High Ceiling" Problems <b>Ryota Matsuura</b> 6-12	84 Polar Vortex - Math Modeling Ice Caves <b>David Buhl</b> 6-College
Ballroom O	45 CONNECT: Planning Lessons That Flow <b>Dan Bungert</b> 6-12	65 Fractions and Vertical Planning <b>Jake Knaus</b> PreK-5	85 Designing Geometry for Equity: Brainstorming Session <b>Christopher Robinson, Annie Perkins &amp; Jonathan Osters</b> 9-College

## FRIDAY AFTERNOON WORKSHOPS

ROOM	1:30 PM – 3:00 PM	3:30 PM – 5:00 PM
St. Louis River Room	46 Transforming “Boring” Math Task From Ordinary to Extraordinary Mike Reiners & Mark Paskell 6-12	66 Making Every Minute Count Lisa Comfort 6-12
French River 1	47 Secondary Number Talks & Equivalent Expressions Maren Zobott & Morgan Fierst 9-College	67 Fractal Fun in Math Class Jennifer Schuetz 3-8
French River 2	48 Using Effective Questioning to Promote Student Learning Cheryl Tucker General	68 Behind the Scenes at the AP Calculus Reading Tracy Bibelnieks 9-College
Gooseberry Falls 1	49 Pearson High School Math (Algebra, Geometry, Algebra II) Featuring Desmos Kelly Kukull & Bryan Wilson 6-12	69 Breakout Boxes! Meredith Webster, Liz Huesing & Anson Opara 6-12
Gooseberry Falls 2	50 5 Start here...Math Environment Matters Christine Quisley K-	70 Development of Students' Fraction Understanding Tim Harms 3-8
Gooseberry Falls 3	51 Math Tools and Activities for Number and Operations Dawn Dibley PreK-5	71 Children’s Literature to Craft Various Story Problem Structures Ann Vogel PreK-2
Split Rock 1	52 Math Fun"die"mentals John Felling 3-5	72 Beyond Knowing Theorems – Ways to Inspire Geometric Thinking Teresa Gonske 6-12
Split Rock 2	53 "How Can I Solve It?" Manipulatives Can! Kristine Powell 6-12	73 Finding Math in Games Andy Martinson & Ryan Brown General

## 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	86 CONNECT: Sub Plans? May Vang 6-12	106 CONNECT: Parent Communication and Conferences Alison VonAchen General	126 Developing Basic Fact Fluency Shannon Essler-Petty PreK-5	146 Embedding Math Lessons in Social Studies Curriculum Kevin Beneke & Debra Gold 3-5
Harbor Side 203	87 Reach Out to Every Student by Using AVID and Flipped Classroom Abir Ismail 6-12	107 Can you Breakout? Becky Rahm General	127 Creating Wonder and Curiosity Sara VanDerWerf 6-12	147 The Importance of Manipulatives in High School Instruction Jessica Strom 6-12
Harbor Side 204	88 Making It All Add Up for English Language Learners Ashley Borchardt & Abigail Carlson K-College	108 Building Concepts: From Expressions to Solving Equations Gail Burrill 6-12	128 Support Multiplicative Thinking with Dot Pattern Number Talks Terry Wyberg & Christy Pettis PreK-5	148 Building Relational Thinking Sarah Moffett & Kelly Shomper PreK-5
Harbor Side 205	89 Creating an Open Textbook Paul Oswood College	109 Correcting and Engaging Student Work on Assessments Janine Goener & Stephen Larson 8-College	129 Standards of Math Practice and Our Instruction Andrew Martinson General	149 Engaging Parents in Math Learning Lisa Willman PreK-5
Harbor Side 301	90 Best Practices for Teaching Collegiate Mathematics Online Dr. Amy Barnsley 9-College	110 Faculty Connect Will Baumann General	130 Who Needs Algebra Anyway? Will Baumann General	150 Challenges when Using a Modeling Approach Sinan Kanbir 3-8
Harbor Side 302	91 Assessing For Learning - Brainstorming Session Kristi Korteum 6-12	111 Accessing EL Oral Language With ST Math William Menz PreK-5	131 How to Get Your Kids to Come to Life in Your Math Classroom Sizi Goyah 6-12	151 Technology to Reach Every Learner Karyn Meier, Ben Richards & Joel Weingart 6-8/General
Harbor Side 303	92 Simple But Important Math: Teaching Youth Personal Finance Darryl Dahlheimer & Terry Weber 6-12	112 Number Sense: Flexible, Fluid, & Fun! Michelle Kennedy, Julie Ostlund & Michelle Asche PreK-5	132 Ethnomathematics in the K-12 Mathematics Classroom Derek Webb 6-8/General	152 Strategies and Activities for Engagement and Enrichment Mary Jo Hughes 3-8
Harbor Side 304	93 Blended Mathematics Instruction in ALC Raymond Ostfeld 6-12	113 Multiple Approaches to Problem Solving Co Livingston & Dayna Jaeger 6-12	133 Improvement Through Assessment Suzanne Scheuerlein & Levi Murphy 6-12	153 Making Math Culturally Relevant to Students Penny Pickard 6-12
Harbor Side 305	94 Exploring the Connection Between Recursive Sequences and Composition of Functions David Kapolka 9-12	114 Modeling Mathematics With Technology Lisa Conzemius 6-12	134 The Mathematics of Health Insurance Kristin Johnson 9-12	154 ALEKS and Middle School Mathematics Nathan Norman & Jeremy Pinson 6-12
Ballroom L	95 Adventures in Developmental Math Sara VanAsten, David Liew & Brandon Hepola College	115 What Can StatPREP Do For You? Daniel Kaplan College	135 A Discussion on Improving Student Success & Retention Rates Bryan Nyholm College	155 Promoting Transfer Pathways – Moving Forward Bill Heider, Tony Dunlop & Ben Wang College
Ballroom M/N	96 Teaching Math Through Dance and Music Melissa Hanzsek-Brill & Marcelyn Smale PreK-5	116 Eliciting a Robust Understanding of Place Value James Brickwedde 3-5	136 MDE Longitudinal Data Systems Holly Brunson, Angela Hochstetter & Ann Page General	156 Brainstorming Session for MDE's NEW Teacher Website Holly Brunson & Angela Hochstetter General
Ballroom O	97 When ARE They Going to Use This? Dan Bungert PreK-5	117 This Is Not A Test: Book Discussion Barb Everhart, Lesa Covington Clarkson & José Luis Vilson – KEYNOTE SPEAKER General	137 My Journey Away From Homework Dan Bungert 6-12	157 Modeling Rate of Change with Cars and Ramps Anthony Webb 9-College
St. Louis River Room	98 OMG! MATH! Rhonda Davis 3-8	118 OMG! MATH! (9-12) Rhonda Davis 9-12	138 1:1 Laptop Initiative in the Mathematics Classroom Laura Sellner 6-12	158 Activities for Movement, Cooperation and Engagement Jason Stutsman & Annie Melling 6-12

## 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	99 Tips & Tricks on the TI-84/TI-84CE, TI-SmartView Tom Reardon 6-12	119 10 Minutes of Coding – ALL Students Can Program! Tom Reardon 6-12	139 Quadrilaterals – Experiencing Multiple Perspectives Across the Grades Teresa Gonske 6-12
French River 2	100 Does That Count as an "A"? Joan Kwako General	120 Comparing Your Way Through mathematics Kay Wohlhuter PreK-2	140 Rich Mathematical Tasks in the Elementary Classroom Nathan Elliott, Lynn Billett & Margaret Williams PreK-5
Gooseberry Falls 1	101 Is That What's Best for Your Learning? Olivia Korum 6-12	121 Integer Unit in Context Libby O'Connell, Christy Pettis, Jodie Rose-Harkness & Jenny Smith 6-8	141 TGIF! Thank Goodness it's Fun Middle Yrs. Math Games John Felling 6-8
Gooseberry Falls 2	102 Teaching Middle School Math Using a Chromebook Connie McTavish 6-12	122 Step-by-Step of Cornell Notes Rachel Price 6-12	142 Appropriate Use of CAS Technology in Instruction and Assessment Mike Reiners 9-College
Gooseberry Falls 3	103 Creating a Student Centered Classroom Cheryl Tucker 6-12	123 Investigation-Based Activities to Increase Learner Engagement and Accessibility Molly Smith 3-8	143 Strategies for Student Success in Solving Word Problems Culture Cheryl Tucker 6-12
Split Rock 1	104 Identity and Its Impact on Math Success Nicole Bridge General	124 Instructional Strategies to Promote Positive Math Identity Nicole Bridge General	144 Exploring and Integrating GeoGebra Software in Mathematics Lessons Bhesh Mainali 6-12
Split Rock 2	105 What's in Your Review Tool Kit? Camille Mattson, Roni Morrison & Stephanie Enge General	125 Using Algebra Tiles from Polynomials to Factoring Lisa Comfort 6-12	145 Negative Number Conundrum Kristina Brierley 6-8