

The Third New³ Math Conference

Coming Together for Learning, Teaching and Students

A Joint Conference of the Associations of Mathematics Teachers

Of

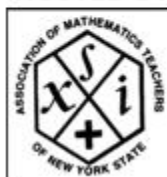
New York - AMTNY

New Jersey - AMTNJ

New England - ATMNE



HOSTED BY



REGISTER NOW --June 30 to July 3, 2019 at Siena College (Albany, NY)

New Cubed Preliminary Program

(Almost complete. Subject to change.)

Monday – July 1	8:15-9:30	Grade Band
Lynda Brennan	Ignite the Mathematical Practice Standards through Positive Teaching Actions	PreK-1
Jamar Pickreign	Solving Problems to Learn - Not Learning to Solve Problems	2-3
Jordan Titus	The Land of Fives (and Beyond)	4-5
Steve Yurek	Hey Circle - What Have You Done for Me Lately?	6-8
Ronni David and Cathy Boutin	Using Coordinates to Interpret and Represent Data	6-8
Tom Beatini	Want to Develop Fluency with Functions? Algebrafy Patterns!	6-8
Rob Gerver	Advanced Algebra with Financial Applications: A Core Course for Students who Struggle	9-12
Mark Kaercher	Why You & Your Students Need to Play With Math!	9-12
Erika Robert	Carbon Nanotubes in your Math Class	9-12
		Sponsor Showcase

Michael Flynn
 Director, Mathematics
 Leadership Programs
 Mount Holyoke College
 South Hadley, MA



Keynote Presentation 10:00am 10:45am

Powerful Moments in Math Class: Why Certain Experiences Stand Out and How We Create More of Them

As teachers, we want each of our lessons to leave a long-lasting impression on students. When we understand the psychology behind memories, we can use that knowledge to design powerful moments for our students. According to Heath and Heath (2018) memorable positive experiences are dominated by four elements: elevation, insight, pride, and connection. In this interactive keynote we will learn how to embrace all four of these elements to create meaningful and memorable mathematical experiences for all students

PreK-12

Monday	11:00-12:15	Grade Band
Denise Rawding	Number Sense: It's Contagious!	PreK-1
Mary Altieri	Success Through Differentiation: Part 1 Games	2-3
Hilary Kreisberg	Preparing Mathematical Thinkers for the Future	4-5
Elana Reiser	3D Printing for the Middle School Math Classroom	6-8
Irina Lyublinskaya	Intervention Strategies for Struggling Learners in Mathematics, Part A	7-8
Michelle Connolly	Factoring for All	8-9
Rob Gerver	Communication Strategies that Aid Understanding and Achievement	9-12
Dianna Sopala	Modeling Functions in the Real World with Technology	9-12
Liz Waite	Promoting Mathematical Communication	9-12
		Sponsor Showcase
Presidents' Lunch 12:15- 1:15		

Monday	1:15-2:30	Grade Band
Scott Schaefer	Building Conceptual Understanding of Place Value (Part 1)	PreK-1
Nicki Newton and Alison Mello	You've Never Seen a Number Line Quite Like This!	2-3
Eric O'Brien	Primacy: Introduce the Sieve of Eratosthenes to your Class	4-5
Jeff Lisciandericrello	Hands on Math and Multiple Representations (Part 1: Scale Models)	6-8
Dana Morse	STEM Solutions from TI	6-8
Nick Restivo	"Out-of-the-Box" Geometry	8-9
Paul Schwiegerling	Problem Solving in Algebra and Geometry Part 1	9-12
Mike Siuta	Activities that develop Trigonometry Concepts	9-12
Neil Cooperman	Statistics: Learning by Doing!	9-12
Scott Vandenberg Robin Flatland	Teaching Computer Science is a Snap!: Introducing Programming	9-12
		Sponsor Showcase


Monday	2:45-4:00	Grade Band
Ron Reinken	Reaching All Level Learners through Active Engagement & Game Play (1)	PreK-1
Heidi Bromley	Exploring Algebra in Primary Grades – Hands on Activities!	2-3
Jamar Pickreign	Solving Problems to Learn, Not Learning to Solve Problems	4-5
Gary Lawrence	Building Student Engagement in Problem-Solving Activities	6-8
Alison Mello	3-Act Tasks: Your Secret Weapon for Engagement!	6-8
Amy Lucenta	Teach ALL Students to Think as Mathematicians	6-8
Varada Pandya-Vaughn Michelle Sweeny	Got PBL? Project Based Learning and Mathematics	9-12
Ray Siegrist	Parametric Equations: What and Why?	9-12
Dana Morse	"I didn't know my calculator could do that!?"	9-12
		Sponsor Showcase

Special Monday Event – Spatial and Geometric Art of Frederick Church
4:30 to 9:30pm (Bus leaves Siena at 4:30)
(Includes 1 hour travel time each way)
Bus, Picnic Dinner, and Executive Tour of Buildings and Amazing Property
\$70 fee



Tuesday July 2	8:15-9:30	Grade Band
Gary Lawrence	Building Mathematical Eyesight	PreK-1
Lynda Brennan	Ignite the Mathematical Practice Standards through Positive Teaching Actions	2-3
Jordan Titus	Beyond The Land of Fives (and Beyond)	4-5
Steve Yurek	Infinity - A Mathematical Yin and Yang	6-8
Alison Mello	Tricks are NOT for Kids! Shifting from Answer-Getting to Understanding	6-8
Jenny Tsankova	Algebraic Reasoning for Middle School Students	6-8
Bob Rogers	Solving Problems with Calculus, Not Calculus Problems	9-12
Mark Kaercher	Do You Desmos?	9-12
Dianna Sopala	Making Learning Visual in Algebra, Geometry, and Trigonometry	9-12
		Sponsor Showcase

Tuesday	10:00-11:15	Grade Band
<p>Kees de Groot Professor, University of Rhode Island Kingston, RI</p> 	<p>Featured Session 10:00 – 10:45</p> <p>Tips of the Trade to Improve Learning and Teaching</p> <p><i>A focus on Attending to Precision and Mathematical Structures will takes us on a journey of K-12 misgivings, misconceptions, and misteachings, with the hopeful conclusion that we have the capacity to do better</i></p>	7-12
Denise Rawding	The Power of Pony Beads: Inexpensive Tools for Powerful Math Learning	PreK-1
Mary Altieri	Success Through Differentiation Part 2: Tasks	2-3
Amy Lucenta	Contemplate then Calculate: Set Classroom Culture and Develop MP7	4-6

Tuesday	11:15-12:30	Grade Band
<p>Marianne Strayton Math Specialist at Clarkstown Central School District and Senior Curriculum Developer at Great Minds (Eureka Math)</p> 	<p>Featured Session 11:30 - 12:15</p> <p>Building Relationships to Last: What's Trust Have to Do with Math?</p> <p>How do we help students develop their own personal relationships with mathematics? How do we help other teachers grow in their ability to foster these relationships as well? Why does the task matter and what is the role of trust in all of this?</p>	PreK-6
Irina Lyublinskaya	Intervention Strategies for Struggling Learners in Mathematics, Part B	7-8
Nick Restivo	"Get Over It!" You Can't Know All the Answers...Immediately	7-8
Ellen Falk	Modeling The Story of Functions	8-10
Elana Reiser	Probability & Statistics Activities That Promote Curiosity	9-12
JoAnn Miltenberg	Make Math Fun with TI-Innovator Rover	9-12
Erika Robert	An inquiry based lesson on Independent Probability	9-12
Birds of a Feather Lunch 12:30-1:30		

Tuesday	1:30-2:45	Grade Band
Scott Schaefer	Building Conceptual Understanding of Place Value (Part 2)	PreK-1
Nicki Newton	Guided Math In Action	2-3
Jenny Tsankova	Algebraic Reasoning for Early Middle School Students	4-5
Amy Lucenta	Connecting Representations: A vehicle to teach structural thinking to ALL students	6-8
Jeff Lisciandrello	Hands on Math and Multiple Representations (Part 2: Number Sentences)	6-8
Eric O'Brien	Play the Break The Rule Game	6-8
Paul Schwiegerling	Problem Solving in Algebra and Geometry Part 2	9-12
Neil Cooperman	Technology based projects that create beautiful, thought-provoking images.	9-12
Brad Posnanski	The Power of Patterns: Building Rich Mathematic Concepts	9-12
Robin Flatland Scott Vandenberg	Controlling Yourself in Snap!: Programming Choices and Repetition	9-12

Tuesday	3:15-4:30	Grade Band
Ron Reinken	Reaching All Level Learners through Active Engagement & Game Play (2)	PreK-1
Hilary Kreisberg	Preparing Mathematical Thinkers for the Future	2-3
Marianne Strayton	Photo Number Talks: Using Student Thinking to Develop Concepts	4-5
Ronni David and Bill Farber	Using Mathematical Riddles to Build Conceptual Understanding in Math	6-8
Kees de Groot	Go Forth and Multiply	6-8
Stephanie Cooperman	Using the Desmos Calculator to Analyze Student Photographs and Artwork	6-8
Tom Beatini	Hands-On Tasks+Technology=Conceptual Understanding Through Modeling	9-12
Jim Carpenter	The Role of Functions in School Mathematics	9-12
Jay Schiffman	Fibonacci Gems - Intriguing Results Associated With The Sequence	9-12
		Sponsor Showcase

James Durie
Professor of
Computational
Education,
University of
Stirling
Scotland



Banquet Dinner 6:00pm

Banquet Speaker 7:00pm

Truth, Logic, and the Five Reasons We Learn Mathematics

During a long school year, it's normal to lose sight of the big picture of why we teach what we teach. It's easy to become consumed with the immediate needs of students, lesson plans and course content, classroom management, and everything associated with assessments. It's important for us, as teachers, to remember the main reasons we teach mathematics (or anything) and even more important that we share these reasons with our students.

James Durie began his career at the Ballantrae School in Scotland. He is currently the Professor of Computational Education at the University of Stirling.

Wed. July 3	8:00-9:00	Grade Band
Hilary Kreisberg	Preparing Mathematical Thinkers for the Future	PreK-1
Marianne Strayton	Unlock the Toughest Concepts of the Year Using Measurement	2-3
Lynda Brennan	Ignite the Mathematical Practice Standards through Positive Teaching Actions	4-5
Steve Yurek	A Few Discrete (Both Meanings) Posers Layered with Rich Mathematics	6-8
Eric O'Brien	Patterns in the Perfect Squares	6-12
Daryl Cox	" Using Flow-Charts to Help Struggling Students Understand Proofs	9-12
Eric Breimer	Data Science with Google Colab	9-12 RB330

Wednesday	9:10-10:10	Grade Band
Denise Rawding	Word Problem Fun	PreK-1
Mary Altieri	Success Through Differentiation Part 3: Problems	2-3
Jordan Titus	More Place Value Activities	4-5
Stephanie Cooperman	The Beauty of Harmonic Divisions of Golden Rectangle Designs	6-8
Irina Lyublinskaya	Intervention Strategies for Struggling Learners in Mathematics, Part C	7-8
Jonathan Halabi	Let's Solve Counting Problems! Fun! But can we grade problem solving?	9-12
Paul Schwiegerling	Problem Solving in Algebra and Geometry Part 3	9-12
Erika Robert	Sinusoidal Modeling	9-12

Wednesday	10:20-11:20	Grade Band
Scott Schaefer	Building Conceptual Understanding of Place Value (Part 3)	PreK-1
Jenny Tsankova	Algebraic Reasoning for Young Students	2-3
Gary Lawrence	Persistence and Creativity Through Non-Routine Problem Solving	4-5
Alison Mello	Concrete instruction in middle school? YES PLEASE!	6-8
Jamar Pickreign	Solving Problems to Learn, Not Learning to Solve Problems	6-8
Ellen Falk	Modeling the Story of Geometry Part A	8-9
Kees de Groot	Like Terms: What's In A Name?	9-12
Scott Vandenberg Robin Flatland	Recursion and Functions in Snap!	9-12

Wednesday	11:30-12:30	Grade Band
Ron Reinken	Reaching All Level Learners through Active Engagement & Game Play (3)	PreK-1
Nicki Newton	Guided Math In Action	2-3
Sandy Sp		4-5
Jeff Lisciandrello	Hands on Math and Multiple Representations (Part 3: Story Problems)	6-8
Mary Ann Nickloy	New Cubed and You Cubed Intersect	6-8
Ellen Falk	Modeling the Story of Geometry Part B	9-10
Bob Rogers	Fredonia" Rogers and Pre-Calculus Precalculus	9-12
Closing Lunch 12:40-1:40		