


**How To Make Math Count**

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**K-8 Conference**  
presented by  
**Nassau County Math  
Teachers Association &  
Nassau County Association of  
Math Supervisors**

**Thursday, January 12, 2012  
Molloy College**



**HOW TO MAKE**

**MATH COUNT**

Nassau County Mathematics Teachers Association  
Nassau County Association of Math Supervisors

**Present a K-8 Conference**

**HOW TO MAKE MATH COUNT**

**Molloy College**

**Thursday, January 12, 2012 8:00 A.M. – 2:30 P.M.**

We are pleased to announce that once again NCMTA and NCAMS will sponsor ***The How To... Make Math Count K-8*** conference, held at Molloy College, Rockville Centre, NY, on **Thursday, January 12, 2012. Join us for this special day, designed to meet the curriculum and assessment concerns of elementary and middle school teachers.** Workshops include teacher-tested ideas, models, demonstrations, techniques, and hands-on activities that can be used in the classroom the very next day. We are fortunate to again have exhibitors so you will have an opportunity to speak with vendors and peruse materials.

This year we are thrilled to announce that **Dr. James Rubillo**, former NCTM Executive Director, will deliver the keynote address. Dr Rubillo, a leadership development consultant, has conducted K-12 in-service programs for schools and school districts across the continent on a wide variety of mathematics education topics. His topic will be "Don't Be So Symbol-Minded: Problem Solving, Reasoning and Sense Making in the Common Core Standards Environment".

Please fill out the registration form in this packet and enclose a check or purchase order for \$45 (full-time students or student teachers, \$25), made payable to Treasurer, N.C.A.M.S. Registration forms must be returned by **December 23, 2011**. We expect a large response. Register early so you get your first choices for sessions. You will receive an email confirmation of registration by December 23, 2011. **Your schedule for the day will be waiting for you at the registration desk in the lobby of Wilbur Arts Center on January 12.** A continental breakfast will be served.

Participants will be scheduled for the keynote address, three out of four sessions, lunch and time to visit the exhibit area. *Lunch is included in the cost of the conference.* If you have any questions about the program, call Ronni David (516-359-2794). If you have any questions about registration, please email Deborah Upton at [makemathcount@aol.com](mailto:makemathcount@aol.com). **Look for your email confirmation around December 23<sup>rd</sup>.**

<b>CONFERENCE TIME SCHEDULE</b>			
Registration, Coffee, Commercial Exhibits	8:00	-	9:00
Keynote Address	9:10	-	10:10
Session 1	10:20	-	11:15
Session 2 or Lunch and Commercial Exhibits	11:25	-	12:20
Session 3 or Lunch and Commercial Exhibits	12:30	-	1:25
Session 4	1:35	-	2:30

*How to Make Math Count  
Planning Committee*

## COLUMN A (SESSIONS I & II)

1. ***Math Games Using the Common Core Standards*** – Our differentiated math games will add to your math curriculum. **Allyson Giles and Jody Heitner**, Syosset Schools, Gr PK-1.
2. ***Big Ideas + Good Teaching = Sense of Wonder and Sense of Number*** What do the CCLS mean for primary teachers? NOT more of the same! This session will focus on the Big Ideas and strategies for implementation. **Mary Altieri**, Westchester BOCES, Gr K-2.
3. ***Hands-On Math*** – Get your students involved by making math class exciting and fun! Includes engaging activities for teaching number sense, measurement, and spatial relationship. Make every lesson a hands-on activity. **Pamela Jackson Ware**, P.S. 33Q, Gr K-2.
4. ***Are You Ready for “SUM” Math?*** – With the new CCSS in place, we will discuss the new changes for grades K-2 and make and take activities ready to use in your classroom. **Lisa Minerva**, East Williston Schools, Gr K-2.
5. ***Math Games for the SMART Board and Beyond*** – Math games can support the new Common Core Standards, using the SMART Board can make them fun! Games described can be adapted for those without a SMART Board. **Cyndi Nichols**, Commack Schools and **Mike Mazur**, East Williston Schools, Gr K-2.
6. ***Math Talk*** – Our students should be critical thinkers, successful problem solvers, and mathematicians. The ideas, calculator games, and activities presented will encourage your students to perform at the higher levels of Bloom’s Taxonomy. **Mickey Jo Sobierajski**, former AMTNYS president, Gr K-2.
7. ***You’ll Flip for Flip Chutes!*** – Many students of all ages learn best when utilizing tactual resources. Flip chutes are fun for individual or small group review. You will make a flip chute and discover the many ways that flip chutes can be used not only across grade levels but also subject areas. **Gabriella Gizzi**, Roslyn Schools, Gr K-6.
8. ***The Hundreds Chart – Not Just Odd and Even!*** – Unlock the potential for number sense hidden beyond odd vs. even. Find standards-based activities for your classroom and/or SMART Board. **Patricia Cannon and Lisa Gulotta**, Farmingdale Schools, Gr 2-4.
9. ***Math Games and Puzzles*** – Participants will partake in various math activities and games that are fun and challenging. The activities will serve to reinforce several different math disciplines while promoting creative thought and problem solving. **Henry Kupstas**, East Williston Schools, Gr 3-4.
10. ***Hands On Math – Alive and Well in the Common Core*** – Is changing to Common Core Standards giving you the hives? Here are fun activities to develop and integrate some of the topics you will need to teach. **Roberta Silver**, Molloy College, and **Lynda Lyons**, POB Schools, Gr 3-5.
11. ***Fraction Bricks: Combining Language and Mathematics*** – This hands-on workshop will focus on activities that help students learn the concepts and skills of fractions as well as the drawbacks that create problems in student learning. No tricks. Just solid ideas to use tomorrow in your classroom. They work well on Fridays. **Frank Gardella**, Hunter College, Gr 3-5.
12. ***Developing Fraction Instruction for Student Understanding*** – In this session, teachers will participate in hands-on activities designed to help students develop an understanding of fractions. Particular attention will be given to equivalence, a necessary skill for comparing, ordering, and operation on fractions. **Ben Lindeman**, Retired, New York State Department of Education, Gr 3-5.
13. ***Thinking Outside the Box: Teaching Kids to be Problem Solvers*** – This workshop will focus on teaching children to be problem solvers. It will model how kids can look at math differently by thinking deeply about a problem. This way of thinking encourages the development of the 8 math practices outlined in the Common Core. **Judith Rothman** and **Maria Castle**, North Merrick Schools, Gr 3-5.

14. *Pattern Blocks and the Common Core* – Simple activities will help students understand the meaning of fractions and the concept of proportional reasoning. We might even measure an angle or two! **Grace Quinlan**, Retired, Gr 4-5.
15. *The Power of 2's – An Elementary Investigation* – A topic usually not taught in elementary school mathematics, the power of 2 leads to extensive problem solving and exploration of number. The additive nature of numbers is compared to the multiplicative nature of numbers and explosive growth. **Dr. Laura Gellert**, The City College of New York, Gr 4-6.
16. *The Art of Questioning* – This session will deal with the use of different aspects of questioning in order to help promote student discussion and make the mathematics more meaningful. **Fred Paul**, Retired, New York State Department of Education, Gr 4-6.
17. *Math + Art = A Natural Connection* – Take students on a journey over the math-art bridge. Linking these two subject areas will enrich your curriculum and bring a more concrete understanding of abstract concepts. Participants will leave with ready-to-go lesson plans to use immediately. Spark student interest with fun activities that bring out the beauty of mathematics. **Lisa Rundo**, Long Beach Schools, Gr 4-6.
18. *Tangrams, Not Just Jigsaw Puzzles*. You probably have tangrams in your classroom closet and thought they were just jigsaw puzzles. We will make our own tangrams and examine the many geometric properties created. See Grandfather Tang's story come to life. **Dr. Susan Smith**, Molloy College. Gr 4-6.
19. *Games + Core Curriculum = Fun* – Come learn games to be used with your students that are aligned with Common Core Standards. **Diane Viola and Sloane Sepe**, East Williston Schools, Gr 5-6.
20. *Calculator Activities for the Common Core* – Problem solving activities to stimulate student thinking and reasoning. **Frank Sobierajski**, Retired, Gr 5-7.
21. *Hands ON!* – This workshop will include fun hands on activities to do with your class as an introduction to a topic, as a review of a topic or the day before a vacation! Topics will include: Measurement, Area/Perimeter, Pythagorean Theorem, 3Dimensional shapes, integers, and more. **Lisa Clark**, Sewanhaka Schools, Gr 6-7.
22. *Differentiated Middle School Math Instruction for Beginners* – This workshop is designed to teach middle school teachers the basics of differentiated instruction. You will walk away with the fundamentals of how to tier instruction and reach all different types of learners in your class. **Amy Fetters**, Roslyn Schools, Gr 6-8.
23. *What's Common between 2005 and Common Core?* – Wondering what next year will bring? Hear and share ideas about Common Core. What's in? What's out? Come and find out. **Caryl Lorandini**, Carle Place Schools, Gr 6-8.
24. *A Gentle Introduction to Mathematical Reasoning and Proof for the Common Core Standards* – In this hands-on session we will share several problems which naturally lead students to grade level appropriate reasoning and then to writing their explanations/ justifications/proofs. Student effort on the writing assignments is usually very high because they find the introductory problems interesting. **James Matthews**, Siena College, Gr 6-8.
25. *I Can DO IT but I Don't UNDERSTAND It! Address the New Common Core Standards by "Going Deep"* – We will develop specific concepts in middle school math within the new Common Core State Standards that students have difficulty in understanding and teachers have difficulty in teaching and offer strategies for the teacher to teach with understanding in a wide variety of learning environments. Lessons will involve a variety of resources and technology. **Rudy Neufeld**, Neufeld Learning Systems, Inc., Gr 6-8.
26. *Logged in to Middle School Math:* Are digital programs more advantageous than traditional paper and pencil math? Join this discussion as we explore the integration of digital books, websites, and other digital media into today's classrooms. Learn about quality resources that can be used on your SMART Board, tablet, or computer to enhance teaching and learning. **Jamie Piccora**, BuzzMath Math Specialist, Gr 6-8.

27. ***Marzano's Best Strategies Applied to the Common Core*** – What are the best strategies to use to deepen students' understanding of The Common Core State Standards? We'll apply Marzano's top ten to a pair of lessons in each grade 6 to 8. **Juanita Maltese**, Carle Place Schools, Gr 6-8.
28. ***The Remarkable Golden Mean*** – In 1195, Leonardo of Pisa, better known as Fibonacci, wrote this sequence of numbers in his arithmetic book: 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, ... and launched the incredible *golden mean* era of discovery. The golden mean somehow defines our concept of beauty as well as nature's biological preferences: even our DNA is linked to this ratio! With a few, simple experiments we will try to demonstrate what the golden mean ratio is and how it seems to govern so many diverse aspects of life. Feel free to comment, question and share. **Al Cavallaro**, Nassau Community College, Gr 7-8.

## **COLUMN B (SESSIONS III & IV)**

29. ***Using Ten Frame Boards to Deliver the Common Core Standards ... or at Least Some of Them*** – Explore and teach number identification, number sense, addition, subtraction and place value concepts in a visual and kinesthetic way using these fun manipulatives. Bring these exciting and fun activities back to your classroom tomorrow. **Nicholas J. Restivo**, Math Olympiads, Gr PK-2.
30. ***Using Children's Literature to Teach Math*** – We will use two stories, “*Frog and Toad and the Lost Button*” and “*Caps for Sale*” to teach mathematical concepts in the K-1 classroom. SMART Notebook activities created for each story and hands-on activities will engage you and your students. **Sue Mehr**, Deer Park Schools, Gr K-1.
31. ***K-2 SMART Board Math Activities*** – Come play some fun, interactive math games and view other engaging math activities created using SMART Notebook. **Kelly Beleckas**, Long Beach Schools, Gr K-2.
32. ***Common Core and the Primary Grades*** - The CCLS has imposed changes on our way of teaching. Here are some activities that will help you push your students deeper in their understanding of mathematics. Incorporate the Standards for Mathematical Practice into the Standards for Mathematical Content. Focus on engaging your students mathematically! **Audrey Bellovin**, Garden City Schools, Gr K-2.
33. ***Developing Number Sense*** – The new Common Core standards require that children develop a deeper understanding of numbers. Come learn some simple games that can be played to help develop young children's number sense. **Suzanne Golder**, Malverne Schools, Gr K-2.
34. ***Alice in Numberland*** – Explore whimsical, engaging, hands-on mathematical activities that are all based on Alice's Adventures in Wonderland. Samples of the activities along with their relationship to the appropriate content standard will be provided for all participants. **Jamie Piccora**, Patchogue Medford Schools, Gr K-2.
35. ***Array, Train and Loop Puzzles*** – These puzzles, which help develop math language and problem solving using attribute shapes, are generally simple and quick to solve. Participants will solve some of these puzzles individually and in groups and receive a large assortment of the puzzles to take back to their classrooms to use with their students and share with fellow teachers. **Abby Radwin**, Malverne Schools, Retired. Gr K-2.
36. ***Digging Into the Common Core*** – This session will provide participants an opportunity to take a “deep” and “coherent” look at the CCLS in grades K-4. Materials will be provided to aid in the transition from the “old” 2005 NY standards, and we will focus on the development of the mathematical practices that transcend grade level and specific topic. The session will be geared to the familiarity and comfort level of the participants, so that it is a valuable experience no matter where you are on the continuum of implementation. **Heidi Bromley**, Questar III BOCES, Gr K-4
37. ***Let's Play Math Games*** – With a new math concept being taught each day, math games give children a chance to reinforce skills learned while at the same time having interactive learning experiences with friends and family. There are great games to reinforce most math concepts using dice, spinners, even pencil and paper. Games are a great way to get the whole family involved in a students' learning! Learning really can be fun!!! **Michele Anselowicz**, Wantagh Schools, Gr 3-4.

38. ***Fluent = Fast and Accurate*** – You will learn tricks, games and strategies to help your students become more fluent in mathematical operations. **Barbara Allaire**, Malverne Schools, Gr 3-5.
39. ***Estimation is not Rounding*** –Why don't our students estimate? Why do they get estimation questions wrong on state assessments? This workshop provides an organizer for estimation and presents three strategies that develop the use of estimation from a numeracy perspective. All strategies will be demonstrated, and materials will be provided for back in the classroom. **Peter Garrity**, Teachers College, Columbia University, Gr 3-5.
40. ***Multiply 2 Music (M2M)*** – Singer/songwriter Lee Knight presents M2M, a musical “addition” supporting multiplication skills. M2M hits New York State Core Standards “Fluency and Application” as students connect with the dynamic, culturally diverse rhythms. All participants will be given a cd and lyrics to take back to their schools. **Lee Knight**, Books Alive! Gr 3-5.
41. ***Build It, Draw It, Write It, Talk It...OWN IT! “Go Deep” to Address the New Common Core Standards*** - We will explore methods to “hook” students with different abilities to deeper conceptual understanding in mathematics. We will model specific lessons addressing concepts within the elementary math common core state standards involving a variety of resources. Lessons will involve a variety of resources and technology and will extend to differentiated instruction and RTI. **Rudy Neufeld**, Neufeld Learning Systems, Inc, Gr 3-5.
42. ***Essential Understandings of Rational Numbers*** – Come to participate in activities and analyze their usefulness in developing an understanding of rational numbers in grades 3-5. We will better develop our own understanding of the Big Ideas around rational numbers as given in this new NCTM resource. **Nancy Zarach**, Syracuse City Schools, Retired, Gr 3-5.
43. ***Using Alternative Algorithms to Achieve Maximum Results*** – What happens when your students don’t understand the traditional algorithm you have taught? Come and learn alternative ways using hands-on material to teach your students basic whole number, decimal and fraction operations. **John Hinton**, President, Math Matters, Inc., Gr 3- 6.
44. ***Pyramath*** – Participants will learn a new card game to share with their students that will enhance problem solving strategies, strengthen math vocabulary and reinforce the basic facts. Warm up with puzzles and then challenge fellow participants to play the card game Pyramath. Each participant will get a set of Pyramath cards and a packet of activities. **Dennis Mulhearn**, Math Olympiads Gr 4-6.
45. ***Math and American History*** – In 1492, Columbus sailed the ocean blue...using mathematics to navigate. Columbus met the Native Americans whose knowledge of geometry was found in their quilts. Come learn how we developed some math-American history activities for students taking college courses on their way to a degree in elementary education. **Theresa Vecchiarelli** and **Marynita Anderson**, Nassau Community College, Gr 5-7.
46. ***Environmental Problem Solving from the SMART Board*** – See how your SMART Board can help 5-8 students explore and explain the world around them. This session will focus on how Notebook’s “Transparent Background” feature, can be combined with programs like; Google Earth, Google Sketchup, Calculator Based Laboratories, and Notebook Math Tools. We will use these programs to collect, analyze, and display data related to our environment. **Matt Ringh**, Tequipment, Inc., Gr 5-8.
47. ***Mathematical Practices – How Well do you Know Them?*** – The key to the Common Core is the Mathematical Practices. Come and learn about them. **RoseLinda Ricca**, Malverne Schools and **Angel Kozlowski**, Syosset Schools, Gr 5-8.
48. ***Geometer’s SketchPad*** – In this hands-on presentation you will learn how to use Geometer SketchPad to construct lines, circles and polygons, plot points and functions, calculate lengths, angle measures and slopes. You will then be able to discover the specific properties of various geometric shapes and apply the Euclidean constructions. Bring your flash drive. **Peter Hollenstein**, Molloy College, Gr 6-8.
49. ***Puzzles, Patterns and Games for Enriching Your Classes*** – Several puzzles will be presented and connections will be discovered tying the puzzles to algebraic equations and geometric shapes. **Arthur Kalish**, Consultant, Gr 6-8.

50. **Fortifying the First Five: Ideas for 5-Minute Period-Opening Activities** – Eleven different strategies for do-nows for all math classes will be discussed via a 31-page handout. Strategies include quizzing, foreign textbooks, explorations, quotes, optical illusions, standardized test practice, and more. **Dr. Robert Gerber**, North Shore Schools, Gr 6-8.
51. **The Math Confidence Philosophy for Academic and Personal Success** – Success literature (i.e. Stephen Covey) helps teachers, parents, and students develop a positive outlook to persist through the learning process and appreciate effort rather than ability. **Robin Schwartz**, Math Confidence, Gr 6-8.
52. **Technology and Mathematics – the Right Angle** – Ideas for using technology in the math classroom. Digital scavenger hunts, digital image permutations, using TV mistakes, making stop motion videos, cell phone videos, fractal geometry, and more. **Frank Sobierajski**, Retired, Gr 6-8.
53. **Is it Always the Best Solution? Absolutely Not!** – This workshop will challenge the widespread notion that the algebraic solution of a problem is always the most excellent way of solution. You will be provided with a selection of problems where other forms of solution representations turn out to be more elegant and efficient ways of problem solving, and certainly more accessible to many middle and even high school students. **Jenny Tsankova**, Roger Williams University, Gr 6-8.
54. **So, What Actually Works in Inclusion Classes?** – Have you ever been to an inclusion workshop that gives you ideas for study skills or classroom activities that seem great at the time, but in actuality, they really aren't totally appropriate for a 40 minute lesson? After teaching inclusion for 10 years, I can honestly say, I've found some ideas and practices that really work!! Sign up and you be the judge! **Nancy Kallmeyer**, Bethpage Schools, Gr 7-8.
55. **Every Story Tells a Picture** – Linear, quadratic and exponential relationships paint a picture of our world that can be represented in multiple ways. Help students develop mathematical fluency by exploring connections between these representations, and the world they see every day. **John Maus**, North Shore Schools, Gr 7-8.

\* \* \* \* \* **Directions** \* \* \* \* \*

**By Car:** Take the Southern State Parkway (reached via the Cross Island Parkway from the Whitestone and Throgs Neck Bridges, or via the Belt Parkway) to Exit 20 southbound. Go south on Grand Avenue to Georgia Street. Turn right on Georgia and continue approximately 1/2 mile. The street name changes to Beech and ends opposite the campus.

**By Bus or Train:** Take the Long Island Railroad Babylon line from Pennsylvania Station in Manhattan, Flatbush Avenue Station in Brooklyn, or other Babylon line stations to the Rockville Centre Station. (Eastbound travelers inquire for possible change at Jamaica Station.) Bus and taxi service is available to and from campus. The N16 line of the Metropolitan Suburban Bus Authority stops at the campus entrance.

