



HOW TO MAKE

MATH COUNT

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

**Thursday, January 7, 2016
Molloy College**



*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 7, 2016 8:00 A.M. – 2:30 P.M.

We are pleased to announce that NCMTA and NCAMS will sponsor ***The How To Make Math Count K-8*** conference, held at Molloy College, Rockville Centre, NY, on **Thursday, January 7, 2016**. **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 once 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. Karen Karp**, visiting professor at Johns Hopkins University and former professor at the University of Louisville, Kentucky, will be presenting a keynote address: *Teaching K-8 Students who Struggle in Mathematics*. Dr. Karp is a former member of the Board of Directors of the National Council of Teachers of Mathematics (NCTM) and past president of the Association of Mathematics Teacher Educators (AMTE). She is a well-known author of *Elementary and Middle School Mathematics: Teaching Developmentally*, as well as more than 50 other publications. She began her teaching career on Long Island and was a professor at Adelphi University.

We are happy to offer online registration and payment. Online payment is available for credit cards, PayPal, or purchase order numbers from your district. To complete online registration, please visit the link at <http://www.ncmta.net/howto.html>. If you would prefer to pay by check, please complete the registration form (at the end of this program) 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. It is not necessary to mail in a physical form if you have opted for the online registration. Registration forms, either online or via mail must be received by **December 24th, 2015**. We expect a large response. Register early so you get your first choices for sessions. You will receive an email confirmation of registration by January 3rd, 2016. **If you do not receive a confirmation by January 3, 2016, make sure to contact us at makemathcount@aol.com. Your schedule for the day will be waiting for you at the registration desk in the lobby of Wilbur Arts Center on January 7.** 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 or registration, call Deborah Upton at 617-851-9770 or email makemathcount@aol.com.

<u>CONFERENCE TIME SCHEDULE</u>			
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. ***Fluency Fun!*** – Build your students’ number sense with activities that promote automaticity. **Marjorie Monahan**, Malverne Public Schools, Grades K-1.
2. ***Targeting First and Second Grade Computational Skills*** – Participants will learn how to quickly target those students that lack understanding of a specific computational skill. Mini-lessons will be given so that teachers can remediate immediately. **Sue Mehr**, Deer Park Public Schools, Grades K-2.
3. ***How to Implement the Common Core State Standards Using the Modules from Eureka Math*** – This workshop will provide an overview of the K-2 modules along with the latest updates from the Network Institute teams. Participants will learn about the strategies, vocabulary, and resources that the modules provide. In addition, participants will understand the depth of knowledge that students obtain after being exposed to the material provided in the modules. **Dr. Cheriese Pemberton**, South Country Central School District, Grades K-2.
4. ***A Good Book is Worth A Lot!*** - How can we address the many skills that need to be taught within the curriculum? Literature is a wonderful way to integrate problem solving into learning the skills. Both fiction and non-fiction books are available to address these skills. This workshop will demonstrate the ways to use books to help children connect mathematics and the real world! **Audrey Bellovin**, Garden City Public Schools, Grades K-2.
5. ***Developing Number Sense*** – In this workshop you will learn some quick fluency drills that you can use immediately. You will also learn some easy games that will help build number sense. **Suzanne Golder**, Malverne Public Schools, Grades K-2.
6. ***Talking Math: Mental Math Strategies for Young Kids –and Their Parents!*** – New methods and curricula for teaching mathematics are important – and the need for them is perhaps a symptom of a larger problem: how many of the adults in our students’ lives really “get” numbers, and what we can do with them in our minds? In this session, you will learn some specific mental math strategies for the four operations. But most of all, through games and structured “conversations” – designed for kids, and also for parent meetings – you will help your students and the adults in your school community evolve an empowered perspective on what they can do with numbers. **Alan Donaldson**, The Cathedral School, Grades K -2.
7. ***Module Madness*** – Come for a closer look at what is really the foundation of Modules 1 and 2. Engaging lessons/activities for addition and subtraction. **Millie Joyce**, Garden City Public Schools, Grades 1-2.
8. ***Additional Ways to Add*** – Energize your children with pattern building and kinesthetic strategies. Wear comfortable shoes! **Eric O’Brien**, Consultant, Grades 2-3.
9. ***Entice and Engage Grades 2 through 5*** – This workshop offers activities designed to support the teaching of the Common Core Learning Standards through active student engagement. Using readily available materials, teachers will experience a rich collection of tasks on the important topics of number, operations and algebraic thinking. Differentiate and incorporate tasks into any elementary math program. **Mary Altieri**, PNW and SW BOCES, Grades 2-5.
10. ***Games We Play*** – Hands-on activities that reinforce conceptual and computational skills for students in grades 3, 4 and 5. **Dr. Perletter Wright**, retired, Roosevelt Public Schools, Grades 3-5.
11. ***Math Literacy*** – Looking to engage students who vary in mathematics ability? By launching a strategic rotation that focuses students on the concept they are learning, students will read children’s literature and write responses in their interactive math notebooks. Literature allows abstract concepts to become concrete; these real life examples level the playing field for even the most struggling mathematics student. **Jessica Ryan and Shari Bowes**, Lynbrook Public Schools, Grades 3-5.

12. ***Fantastic Fluency: The Power of Mathematic and Cross-Disciplinary Automaticity*** - Beyond memorizing the multiplication tables, students often experience challenges with mathematical fluency as well as reading comprehension. Come share and learn new strategies for building fluency in math class that will empower your students for life. **Michelle Burget and Theresea Berke**, Syosset Public Schools, Grades 3-8.
13. ***Out of this World Numbers*** – Construct a scale model of the solar system to give students an understanding of extremely large numbers and the concept of scale. **Henry Kupstas**, East Williston Public Schools, Grades 4-6.
14. ***Problem Solving for Columbus Day, Halloween and Thanksgiving*** - We will share rich problems that will motivate your students during what are often exciting but challenging weeks for young mathematicians (and teachers). These problems involve the use of patterns that lead to reasoning with number, algebra, functions, and geometry. **James Matthews**, Siena College, Grades 4-6.
15. ***Using Task Cards in your Mathematics Classroom*** – Task cards can be used in a variety of ways in the mathematics classroom. They can be used to reinforce concepts, differentiate instruction, in centers, station activities, partnering activities, group work, independent practice, assessment prep, at extra help, and for early finishers. In this workshop, I will describe and demonstrate how I use them in my classroom and how you can too. **Christine Waverla**, Malverne Public Schools, Grades 5-7.
16. ***Implementing Interactive Notebooks*** – Interactive Notebooks are a great way to engage learners of all levels and can be adapted for many subject areas. **Kathleen Coners and Grace Parisi**, Long Beach Public Schools, Grades 5-7.
17. ***“Get Over It!” You Can’t Know All the Answers...Immediately*** - Energize and enrich your curriculum by encouraging your students to take risks in problem solving while reminding them that a REAL problem is not the same as a practice exercise. Stop “cramming” for any assessments by utilizing these methods. **Nicholas J Restivo**, MOEMS®, Grades 6-8.
18. ***Our Favorite Challenge Problems*** – Participants will receive a packet of several challenge problems (aligned with middle school content and CCSS Mathematical Practice) that have proven effective at winning student interest, developing persistence, and encouraging creativity. Student work will be shared. **Dr. Hoyun Cho**, Capital University and **Gary Lawrence**, Mustard Seed School, Grades 6-8.
19. ***Fortifying the First Five: Period Opening Activities for the First Five Minutes of Every Math Class!*** – Eleven different types of engaging, effective activities, field tested for almost four decades, will be presented via a 30+ page handout. **Dr. Robert Gerver**, North Shore Schools, Grades 6-8.
20. ***The Lost Art of Problem Solving*** – Some creative problems to motivate students and teachers in the math classroom. **Fred Paul**, Retired, New York State Department of Education, Grades 6-8.
21. ***Three Act Mathematics*** – The three act lesson structure, pioneered by Dan Meyer, is designed to get your students excited and invested in the mathematics you want to teach. It applies to all grade levels, complements the Common Core standards and is based upon open source resources that are free and easy to find online. We will use this session to try a three act lesson, reflect on its design and get you acquainted with the opportunities and resources connected with this lesson structure. **Shaun Errichiello**, Salk School of Science, Grades 6-8.
22. ***Using the TI-Nspire for 8th Grade Mathematics – One Cool Calculator*** – This is an opportunity to learn how to use the most innovative graphing calculator technology to conceptually teach 8th grade mathematics. This workshop is designed for the math educator who wants to see what the TI-Nspire can do. This is a hands on presentation and calculators will be provided. **Dr. Paul Pelech**, Great Neck Public Schools, Grades 7-8.
23. ***Max and Min for the Middle School*** – Increase your students’ problem-solving capabilities and number sense by analyzing maximum/minimum questions and devising tools for their solutions. **Dan Goldbeck**, Syosset Public Schools, Grades 7-8.

24. *Motivating Students with the Use of Technology and Station Activities* – Students are motivated and inspired by hands-on learning experiences. Cooperative station-based activities infused with technology provide students with the opportunity to apply problem-solving strategies while exploring and having fun. Participants will walk away with ideas and activities to implement into their Common Core classrooms. **Marissa Mauro**, Massapequa Schools, Grades 7-8.

COLUMN B (SESSIONS III & IV)

25. *Kindergarten Family Math Night* – Discover many hands-on activities to make your own Family Math Night in your school. These activities support and go beyond the Common Core, giving children the opportunity to use what they have learned throughout the year. **Cyndi Nichols**, Commack Public Schools, Grades K-1.
26. *Targeting First and Second Grade Computational Skills* – Participants will learn how to quickly target those students that lack understanding of a specific computational skill. Mini-lessons will be given so that teachers can remediate immediately. **Sue Mehr**, Deer Park Public Schools, Grades K-2.
27. *A Good Book is Worth A Lot!* - How can we address the many skills that need to be taught within the curriculum? Literature is a wonderful way to integrate problem solving into learning the skills. Both fiction and non-fiction books are available to address these skills. This workshop will demonstrate the ways to use books to help children connect mathematics and the real world! **Audrey Bellovin**, Garden City Public Schools, Grades K-2.
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30. *Module Madness* – Come for a closer look at what is really the foundation of Modules 1 and 2. Engaging lessons/activities for addition and subtraction. **Millie Joyce**, Garden City Public Schools, Grades 1-2.
31. *Alternative Ways to Introduce Multiplication* – Your kids will hop, chant and exercise through their introduction to multiplication. **Eric O’Brien**, Consultant, Grades 2-3.
32. *Tips, Tricks, and Games, Oh My!* – Simple games and fun activities will enhance concepts, strengthen skills and add a bit of magic to math! **Grace Quinlan**, NCMTA Past President, Grades 2-4.
33. *Literacy in the Math Classroom* – We will explore literacy connections in the math classroom. Activities will relate to vocabulary, reading and writing. This workshop will demonstrate many activities that you will be able to use in your classroom tomorrow. **Lisa Minerva and Diane Viola**, East Williston Schools, Grades 3-5.
34. *Multiplication and Division the SMRA Way* – Take the SMRA journey as we employ proportional and non-proportional strategies to provide deeper understanding of the operations of multiplication and division. How these representations are used and when are critical to understand the value of cohesion to the Common Core: “*Helps learning by linking topics or strategies*”. Handouts are provided. **Peter Garrity**, Molloy College, Grades 3-5.

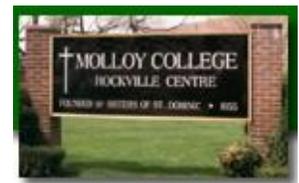
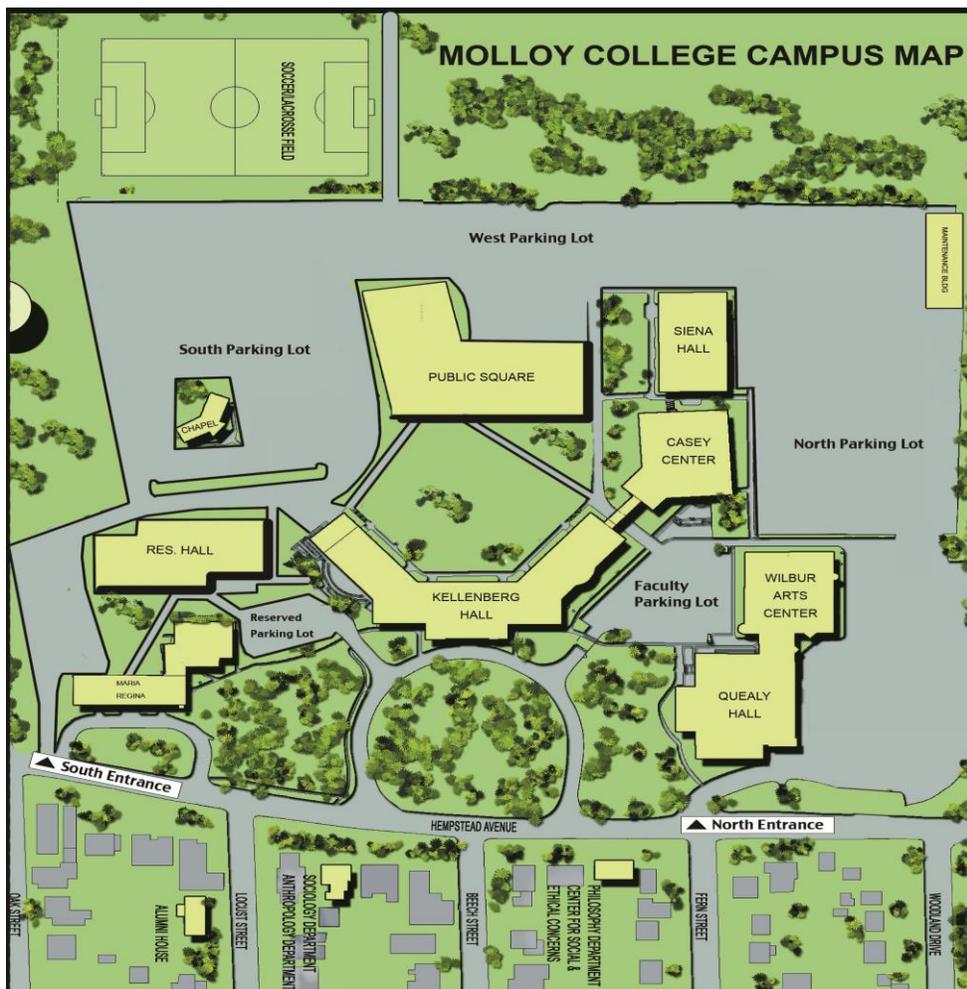
35. ***Transform Your Space Into a Magical Place*** - Come learn how to transform your classroom into magical places where students will be “super focused” on Common Core math in creative ways. Leave with materials and ideas for immediate use. **Theresa Palermo and Connie Havens**, South Country Schools, Gr 3-5.
36. ***Coding: Just Don’t Tell Them It’s Math!*** – You do not need to be a programmer to teach coding! You already teach problem solving skills and strategies. Learning to code cements those strategies for students. Introduction to several basic free (and subscription) coding sites/software. Bringing a smartphone? Install the Tynker app in advance if possible! **Laura Forsyth**, Malverne Public Schools, Grades 3-8.
37. ***Escape with Math and Science*** – Escape rooms are the latest craze: from being locked in a playroom in Mineola to being locked in a room with a zombie in NYC. The object of these rooms is to work, as a team, to solve puzzles that lead to your success. Come learn how we have adapted this to the classroom setting. **Theresa Vecchiarelli and Nicole Simon**, Nassau Community College, Grades 4-6.
38. ***Problem Solving for Valentines, St. Patrick’s, and Flag Day*** - We will share rich problems that will motivate your students during what are often exciting but challenging weeks for young mathematicians (and teachers). These problems involve the use of patterns that lead to reasoning with number, algebra, functions, and geometry. **James Matthews**, Siena College, Grades 4-6.
39. ***“Get Over It!” You Can’t Know All the Answers...Immediately*** - Energize and enrich your curriculum by encouraging your students to take risks in problem solving while reminding them that a REAL problem is not the same as a practice exercise. Stop “cramming” for any assessments by utilizing these methods. **Nicholas J Restivo**, MOEMS®, Grades 4-6.
40. ***Full STEM Ahead*** – During this session, we will develop STEM activities starting with math topics and incorporating science from the curriculum. **Anne Puliaffico**, Manhasset Public Schools, Grades 5-6.
41. ***Use Cubes as a Setting for Your Problem Solving*** – A cube or a stack of cubes is the starting point for many rich problems involving even more math concepts. Work your way through factors, combinatorics, volume, surface area, networks, and more by solving math contest problems. A dozen 4-6 minute cube problems provide a fresh approach to these topics. As a participant, you will receive additional contest problems to take back to your students. **Dennis Mulhearn**, Mathematical Olympiads for Elementary and Middle Schools, Grades 5-7
42. ***Anchors: Lead by Example rather than Formula*** – Do you have a favorite division with fractions problem? What about a best-loved example of factors and multiples? Offering an example helps students better understand content while applying their knowledge and skills and boosting their confidence and enjoyment of math. Feel free to bring your own anchors to share and exchange. **Robin Schwartz**, College of Mount Saint Vincent/Math Confidence, Grades 6-8.
43. ***Differentiated Games and Activities*** – Middle school students need to be proficient in their math skills. Come and learn about some differentiated math games and activities that enhance their math skills while meeting the challenge of the Common Core standards. **Amy Feters**, Roslyn Public Schools, Grades 6-8.
44. ***Student Friendly Algebra with Understanding in Grades 6 to 8*** - The workshop will focus on a sequence of topics and a set of activities that allow students to understand what algebra truly is and realize that success is possible EVEN FOR THEM!!! **Frank Gardella**, Hunter College, Grades 6-8.
45. ***Geometer’s SketchPad*** – In this hands-on presentation you will learn how to use Geometer’s Sketch Pad to construct lines, circles and polygons, plot points and functions, calculate lengths, measure angles and slopes. Graphing equations, plotting points and polygon transformations will also be explored. 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, Grades 6-8.

46. ***Mastery + Fun = Algebra One*** – We’ll explore how “knowledge-building” through progressive problem-solving and inquiry can move your students toward expertise with Common Core Algebra. **Peter Hayes**, Roslyn Public Schools, Grades 7-8.
47. ***See What Google Can Do for Your Mathematics Classroom*** – Go beyond Google Drive. This session is designed for the mathematics educator who wants to learn how to use the Google applications beyond Docs and Sheet. Learn how to use apps such as YouTube, Sites and Classroom to bring a web presence to your mathematics classroom. BYOD. **Dr. Paul Pelech**, Great Neck Public Schools, Grades 7-8.
48. ***TI Tips for Common Core Algebra Success*** – Build mathematical confidence in your classroom. Unlock the full potential of the tools used on the exams. Students can explore math properties to deepen their understanding of mathematics. **Dana Morse**, Texas Instruments, Grade 8.

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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 Nassau Inter-County Express stops at the campus entrance.



.REGISTRATION FORM.

(Not necessary for online registration)

Participant's Name _____ Check # _____
Last Name First Name

Home or Cell Phone (_____) _____ (Please complete in case of snow emergency)

Email address _____

School Name _____

District _____ Grade Level _____

Please choose **eight** workshops, **4 from each column**, in order of preference. Use the numbers next to the description. **Workshops will be assigned in the order in which we receive this form. Every effort will be made to honor your preferences. Since most workshops are scheduled for only one time slot, choosing fewer than 8 workshops can cause scheduling problems.**

Column A (Session I & II)

First Choice # _____
Second Choice # _____
Third Choice # _____
Fourth Choice # _____

Column B (Session III & IV)

First Choice # _____
Second Choice # _____
Third Choice # _____
Fourth Choice # _____

Send this form and a check or purchase order for **\$45.00**, which includes lunch (full time students or student teachers **\$25.00**) made out to **Treasurer, N.C.A.M.S.** by **December 24, 2015** to:

Susan Greenberg
18 Briggs Road
Plainview, NY 11803

makemathcount@aol.com

We look forward to your early response!
NO ON-SITE REGISTRATION
A CONFIRMATION WILL BE SENT VIA E-MAIL
by January 3, 2016

