



North Carolina Council of Teachers of Mathematics

40th Annual State Conference

October 28-29, 2010

Workshop Listing

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| 4000
Workshop | Thur | 8:30 AM - 10:00 AM | Speaker: Erin R Freestone |
| A Teacher for Every Student: Engaging the iPod Generation | | | |
| <i>Are you tired of repeating yourself and wish you could just press the rewind button? Do you need to clone yourself so that you can give every child the attention they need? Now you can! Learn strategies for using iPods in the classroom to give individualized instruction in math. Now students can work at their own pace, rewind as needed and allow the teacher to be with every student! A DREAM come true!</i> | | | |
| 4002
Workshop | Thur | 8:30 AM - 10:00 AM | Speaker: Amy J. Janning |
| Perimeter Problem Solving Area: (Enter at Your Own Risk) | | | |
| <i>Participants will develop the understanding of perimeter and area incorporating inquiry based learning and literature connections. Hard heads not required.</i> | | | |
| 4004
Workshop | Thur | 8:30 AM - 10:00 AM | Speaker: Chrystal Dean |
| Build a Solid Foundation for Your Well-Conceptualized Fractional House | | | |
| <i>Engage in problem solving while building a foundation of fractional understanding using area, length, and set models.</i> | | | |
| 4006
Workshop | Thur | 8:30 AM - 10:00 AM | Speaker: Kimberly E Daily |
| What is Discrete Math? | | | |
| <i>What do teachers need to know to support student learning of interesting problems involving scheduling, modeling, decision making, and optimization? These are the new areas of discrete mathematics that are included in the Essential Standards. Come and learn more about them!</i> | | | |
| 4008
Workshop | Thur | 8:30 AM - 10:00 AM | Speaker: Michelle P Powell |
| Using Geometer's Sketchpad to Teach Geometry | | | |
| <i>Learn how to use Geometer's Sketchpad to help teach important Geometry content. Allow students to make constructions that will lead them to find relationships and make conjectures. All levels of Sketchpad users are welcome.</i> | | | |
| 4010
Workshop | Thur | 8:30 AM - 10:00 AM | Speaker: Becky Caison |
| TI-Nspire Activities in the Geometry Classroom | | | |
| <i>The TI-Nspire gives the students a hands on experience with geometric concepts. Several activities for teaching Geometry using the TI-Nspire handheld will be shared.</i> | | | |
| 4012
Workshop | Thur | 10:30 AM - 12:00 PM | Speaker: Colleen Segarra |
| Ready or Not the 21st Century is Here | | | |
| <i>Working to incorporate 21st Century Skills into math instruction, but not sure how? Learn what they are, and how to integrating them into your instruction.</i> | | | |
| 4014
Workshop | Thur | 10:30 AM - 12:00 PM | Speaker: Kay Kent |
| Making Sense of Measurement | | | |
| <i>Using AIMS (Activities Integrating Math and Science) explore a variety of sensory experiences to reinforce primary measurement concepts.</i> | | | |

4016	Thur	10:30 AM - 12:00 PM	Speaker: Julie B Felix
Workshop		Developing Understanding of Rate of Change <i>Rate of change will rock your classroom! Teachers will investigate rate of change activities that motivate students while developing true understanding. All activities are hands-on, incorporate technology, and focus on application. Discover how to keep your students begging for more math. Handouts provided.</i>	
4018	Thur	10:30 AM - 12:00 PM	Speaker: Allison W McCulloch
Workshop		STEM Integration in Middle School: Inquiry on the Neuse River <i>In this session we share a problem-based project designed for a middle school math, science and technology teacher team. Participants will engage in some of the actual activities that make up project. We will share suggestions for developing STEM projects and online data sets that are available for school use.</i>	
4020	Thur	10:30 AM - 12:00 PM	Speaker: Robin Barbour
Workshop		Strategies for Success <i>Come explore effective strategies to enhance mathematics instruction for our diverse learners. Experience hands-on activities to help students deepen conceptual understanding and build mathematical success.</i>	
4022	Thur	10:30 AM - 12:00 PM	Speaker: Larry Dorf
Workshop		Middle Grades Math Games and Activities <i>Teachers will experience how to go narrower and deeper in the classroom, as prescribed by the NCTM Focal Points, using motivating games and activities.</i>	
4024	Thur	10:30 AM - 12:00 PM	Speaker: Anthony M Dove
workshop		Utilizing Geometer's Sketchpad to Explore Quadrilaterals <i>Teachers will explore how Sketchpad can be used to enhance student's mathematical understanding of quadrilaterals.</i>	
4026	Thur	12:30 PM - 2:00 PM	Speaker: Louise Lamm
Workshop		It's An Inside Job <i>Discover a priceless, yet free, curricular resource that is grade level specific and directly aligned with state standards. Learn about accompanying professional development opportunities.</i>	
4028	Thur	12:30 PM - 2:00 PM	Speaker: Michael J. Bosse
Workshop		Sketchpad for Beginners Through Intermediates <i>Sketchpad is nothing to fear and loads of fun to learn. Join us and you will be amazed what you can do after this workshop.</i>	
4030	Thur	12:30 PM - 2:00 PM	Speaker: Tricia B Essick
Workshop		Meaningful Math Games for Primary Students <i>Participants will explore a variety of math games that can enhance student understanding. We will discuss how teachers can differentiate and assess learning through math games.</i>	
4032	Thur	12:30 PM - 2:00 PM	Speaker: Caroline J Courter
Workshop		Math Centers At Work! <i>Learn tips and get tools for making math centers fun, manageable, and most of all, purposeful! Participants will leave with logistical know-how as well as many activities ready to implement in your classroom! Hand outs and materials will be provided!</i>	
4034	Thur	12:30 PM - 2:00 PM	Speaker: Kitty Rutherford
Workshop		What's New in NC Mathematics Standards? <i>Let's build a conceptual understanding of what's new in our 3-5 Mathematics Standards. Come explore hands-on activities that promote deep mathematical thinking for our students while building foundational understanding essential for success in mathematics.</i>	

- 4036** Thur 12:30 PM - 2:00 PM **Speaker:** Kathy M Jaqua
Workshop **"Gee-I'm-A-Tree!": Geometry, Botany, and Logic**
This workshop connects graphing and logic to encourage geometric thinking. Using tree leaves from North Carolina trees, participants will use lists to graph pictures on graphing calculators. Using a botanical key, participants will use logic to identify the leaves. Together these activities use the big picture and the small details to encourage logical deduction.
- 4038** Thur 12:30 PM - 2:00 PM **Speaker:** Oleg Moiseenko
Workshop **Middle School Mathematics Investigations with and without technology**
An introduction to Algebra with 4 possible investigations. Comparing two frogs and their jumping ability Spaghetti bridges and predictions. What factors affect the pendulum swing
- 4040** Thur 2:30 PM - 4:00 PM **Speaker:** Mary B Grimm
Workshop **The 3 B's of Math: Books, Beats and Basics**
Are you looking for a way to "liven up" your math instruction? This workshop will give you some ideas on integrating music and literature into your lesson plans. Keep your students engaged through books, beats, and the basics!
- 4042** Thur 2:30 PM - 4:00 PM **Speaker:** Kay Kent
Workshop **Finally a Geometry Unit for K-1 Students**
Let's explore the new AIMS Geometry book and K-1 standards together. Hands-on, Minds-on activities will be shared.
- 4044** Thur 2:30 PM - 4:00 PM **Speaker:** Gabr'l Stackhouse
Workshop **Math All Around Us: Connecting Classroom Skills to Students' Everyday Lives**
Have fun learning how to focus students' attention on the math that appears around them everyday using sports, grocery adds, literature, snacks, graphs, weather, etc.
- 4046** Thur 2:30 PM - 4:00 PM **Speaker:** Sandra R Goff
Workshop **Do You See What I See? Multiple Representations in Algebra I**
Actively engage in teaching strategies that use the multiple representations to provide ALL students an entry point into the learning process by building on student strengths and making connections!
- 4048** Thur 2:30 PM - 4:00 PM **Speaker:** Tracy J Goodson-Espy
Workshop **Learning From NAEP: Instructional Materials for Pre-Service and Inservice Teachers**
The session will share a set of instructional materials developed for mathematics content and methods courses aimed at elementary and middle school teachers (pre-service and graduate). The materials examine how NAEP results can help teachers learn about how students learn math.
- 4050** Fri 8:30 AM - 10:00 AM **Speaker:** Meghan Hearn
Workshop **Connect With Parents Through the Perfect Math Night.**
Mathematics around the World and Mathematics and the Olympics are two math night themes discussed. Participant learn to make and design the perfect math night.
- 4052** Fri 8:30 AM - 10:00 AM **Speaker:** Michelle W Capen
Workshop **Numeration " Teaching the Concept of Number in the Primary Grades**
Learn how to connect memorization of math facts with a concept of number. Help students gain a strong concept of "how much" and "how many." Learn how to identify misunderstandings in young learners and how to create early interventions using research based methods.
- 4054** Fri 8:30 AM - 10:00 AM **Speaker:** Heather C Thomas
Workshop **Organized Chaos!**
Feel like math block is chaotic? Let's organize by addressing standards using graphic organizers, thinking maps, and centers. Plan to make and take some activities.

- 4056** Fri 8:30 AM - 10:00 AM **Speaker:** Sheila S Brookshire
Workshop **Change the "Shape" of Your Geometry Lessons**
Get the attention of your students with these kinesthetic lessons from NCTM's "Navigating Through Geometry". Each activity will focus on conceptual development of Geometry Standards through the use of manipulatives. High Energy!
- 4058** Fri 8:30 AM - 10:00 AM **Speaker:** Nancy Ruppert
Workshop **Creating Visual Images to Engage 21st Century Learners**
Using low tech and higher tech tools, engage your students in over 25 products that allow them to develop a deeper understanding of mathematics.
- 4060** Fri 8:30 AM - 10:00 AM **Speaker:** Shirley A Disseler
Workshop **Strategies to engage and enrich kids in mathematics**
This hands-on, interactive, presentation will provide participants with activities that will create thinking in the classroom for students in grades 4-7. Organizational skills for the math classroom will also be discussed. Handouts will be provided.
- 4064** Fri 10:30 AM - 12:00 PM **Speaker:** Chadd McGlone
Workshop **Culturally Meaningful Lessons for Your Classroom**
Participants will how to make the numbers dance and connect to other subjects by situating lessons in a culturally meaningful context. Activities are provided.
- 4066** Fri 10:30 AM - 12:00 PM **Speaker:** Rudy G Azcuy
Workshop **Numbers, Letters, and Words Oh My!**
Solving word problems is challenging for ELLs and non-ELLs alike. Participants will learn and practice specific strategies for helping both types of students master this complex area of mathematics. Note: This workshop will be repeated Friday at 12:30 p.m.
- 4068** Fri 10:30 AM - 12:00 PM **Speaker:** Betty B. Long
Workshop **Delicious (?) Mathematics**
Hands-on math activities dealing with measurement/geometry and number/operations to accompany not-so-mannerly poems about food such as "Never Take a Pig to Lunch". Hand-outs provided.
- 4070** Fri 10:30 AM - 12:00 PM **Speaker:** Sara D Moore
Workshop **Virtual Manipulatives? Interactive White Boards? What does hands-on really mean today?**
Manipulatives have a long history in mathematics teaching and learning. New technology has brought Interactive White Boards and virtual manipulatives. Learn to use these new technologies in combination with traditional manipulatives for effective mathematics teaching and learning. See the technology in action and learn strategies for incorporating it into your own classroom.
- 4072** Fri 10:30 AM - 12:00 PM **Speaker:** Felicia Sawyer
Workshop **Mindful Instruction**
A combination of strategies to promote student achievement through interactive and Bloom's Taxonomy based activities.
- 4074** Fri 10:30 AM - 12:00 PM **Speaker:** Cynthia Townsend
Workshop **Math Vegas: What Happens Here Stays in the Classroom!**
Participants will work through centers involving various games of chance. We will share and discuss probability problems connected to the centers. Handouts will be provided.
- 4076** Fri 12:30 PM - 2:00 PM **Speaker:** Carolann G Wade
Workshop **What's the Probability?**
This session will involve participants in conducting investigations in probability, collecting and interpreting data. Participants will leave with materials and ideas on how to include probability and data analysis regularly in elementary classrooms.

- 4078** Fri 12:30 PM - 2:00 PM **Speaker:** Tracey L Keck
Workshop **AMAZE "N MATH: Automation, Manipulatives and Zesty Encounters in Math**
- 4080** Fri 12:30 PM - 2:00 PM **Speaker:** Sara D Moore
Workshop **Algebra for Everyone: Keep Students Engaged and Ensure Understanding**
This session will share strategies for keeping students actively engaged in learning mathematics, connecting algebra to prior mathematical knowledge, and developing understanding through implementation of a manipulative-based learning cycle from concrete to representational to abstract. Learn to mix technology, hands-on tools, and traditional algebra content and skills to find success for every child.
- 4082** Fri 12:30 PM - 2:00 PM **Speaker:** Hollylynn S Lee
Workshop **Designing and using simulations to investigate probability with Fathom and Probability Explorer**
Come build simulations to investigate births in NC and whether some counties have unusual rates of male births. Session in computer lab with software.
- 4084** Fri 12:30 PM - 2:00 PM **Speaker:** Jennifer M McCarthy
Workshop **Is It Cold In Here? Creating and Analyzing the Koch Snowflake**
When students generate and analyze Koch Snowflakes, they learn about sequences, series, and recursive and closed form (explicit) functions in an engaging and challenging activity.
- 4086** Fri 12:30 PM - 2:00 PM **Speaker:** Sheila S Brookshire
Workshop **Problem Integrating??**
Integrated problems will be explored through problem-centered learning. Best Practices will be modeled and graphing calculators will be used. Great for Freshman Academy!
- 4088** Fri 1:30 PM - 2:00 PM **Speaker:** Rudy G Azcuy
Workshop **Numbers, Letters, and Words Oh My!**
Solving word problems is challenging for ELLs and non-ELLs alike. Participants will learn and practice specific strategies for helping both types of students master this complex area of mathematics. Note: This workshop will be repeated Friday at 10:30 p.m
- 4090** Fri 1:30 PM - 12:00 PM **Speaker:** Renee Bowman
Workshop **What have we learned from Math Expressions?**
Using key math concepts from Math Expressions students will invent, question, explore, and practice math strategies while using technology, manipulatives, games, and centers.
- 4092** Fri 2:30 PM - 4:00 PM **Speaker:** Sandra R Goff
Workshop **Do You See What I See? Multiple Representations in Grades 3 - 5**
Actively engage in teaching strategies that use the multiple representations to provide ALL students an entry point into the learning process by building on student strengths and making connections!