



# North Carolina Council of Teachers of Mathematics

## 40th Annual State Conference

### October 28-29, 2010

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## Session Listing

1000 Session	Thur	8:30 AM - 11:30 AM	<b>Implementing Goal Focus Review Strategies</b> <i>How to turn any worksheet into a game/hands-on activity. Examples - Who wants to be a Millionaire, Memory, Bingo, Scavenger Hunt, Stations, String Wrap, Clothes Pins, Race to the Board, Jeopardy, ect</i>	<b>Speaker:</b> Kelly Ivey
1004 Session	Thur	8:30 AM - 9:15 AM	<b>Add Excitement to Learning with Whackers, Cards &amp; Dice</b> <i>Explore ideas for small group/whole class instruction using cards, dice &amp; whackers to teach problem solving, prediction, &amp; place value skills.</i>	<b>Speaker:</b> Joyce Kohfeldt
1008 Session	Thur	8:30 AM - 9:15 AM	<b>Math Stations for Dummies</b> <i>Do you want to keep your students engaged and hold them accountable with limited paperwork? Then this is the session for you. Come see how you can incorporate all the standards into a week of math instruction utilizing math stations. This session is repeated Thursday at 2:30 in Imperial E.</i>	<b>Speaker:</b> Marci L Matchett
1012 Session	Thur	8:30 AM - 9:15 AM	<b>Palette Pleasers for Math</b> <i>Energize your teaching with a tasty collection of math strategies. Learn about ways to improve student performance in grades 3-5. Handouts will be provided.</i>	<b>Speaker:</b> Trina Potter
1016 Session	Thur	8:30 AM - 9:15 AM	<b>Problem Solving Strategies - Comprehending the Problems</b> <i>Students can usually master the skills involved in computation problems, by using the typical algorithms, but often have difficulty comprehending problem solving situations. This workshop will demonstrate some activities to help students comprehend word problems.</i>	<b>Speaker:</b> Laura A Behm
1020 Session	Thur	8:30 AM - 9:15 AM	<b>Where Did This Come From?: Meaningful Ways to Incorporate the History of Mathematics into your Math</b> <i>In this session we share ideas for the incorporation of the history of mathematics into high school mathematics lessons. We will share lessons that have been developed for algebra 1 &amp; 2, geometry, discrete math and statistics.</i>	<b>Speaker:</b> Allison W. McCulloch
1024 Session	Thur	8:30 AM - 10:00 AM	<b>MINDSET: Mathematics INstruction using Decision Science and Engineering Tools</b> <i>MINDSET is a collaboration between educators, engineers and mathematicians at three universities to create, implement, and evaluate a new curriculum to teach standard mathematics concepts using math-based decision-making tools for a non-calculus fourth-year mathematics curriculum.</i>	<b>Speaker:</b> Karen S Norwood
1028 Session	Thur	8:30 AM - 9:15 AM	<b>Strategies and Activities for Algebra</b> <i>Interactive strategies and activities for Algebra I and II to engage Algebra I students, great for new teachers!</i>	<b>Speaker:</b> Dawn M Ray

<b>1032</b> Session	Thur	8:30 AM - 9:15 AM	<b>Speaker:</b> David C Wilson
		<b>Titilating Topics from Trigonometry</b>	
		<i>There is more to trigonometry than the unit circle. In this talk, we will explore the nonroutine aspects of the following topics: relationship of sides and angles in a triangle, trigonometric identities, trigonometric representation of complex numbers, and inverse trig functions.</i>	
<b>1036</b> Session	Thur	8:30 AM - 10:00 AM	<b>Speaker:</b> Cathy Fosnot
		<b>Developmentally-appropriate Practice vs. a Practice that Develops Young Mathematicians: the Case of Subtraction</b>	
		<i>Developmentally-appropriate practice usually is depicted by diagnosis of the stage of learning followed by a set of matching, prescribed "hands-on" activities. In this session, we will explore and contrast a different practice—one that is designed to foster the development of young mathematicians by involving them in rich, open-ended but didactically-crafted, investigations. Young mathematicians even at an early age thrive on inquiring and defending their solutions in communities of discourse and reflection. The topic of subtraction and its development will be used as an example with connections made to formative assessment, differentiation, and the Common Core Standards. Emphasis will be placed on the role of representation with models such as the open number line, the hundred chart, the arithmetic rack, and the ten frame.</i>	
<b>1040</b> Session	Thur	8:30 AM - 10:00 AM	<b>Speaker:</b> Clif Mims
		<b>Integrating Higher-Order Thinking Skills into Middle Grades Mathematics</b>	
		<i>Keynote speaker Clif Mims will talk about how to integrate higher-order thinking skills and problem solving into middle grades mathematics classrooms.</i>	
<b>1044</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Michael Elder
		<b>Manipulatives and Classroom Makeovers</b>	
		<i>Join us as we explore some of the best math tasks we have used with our students. This will be an interactive session where you will do the math and take the ideas home with you. All math strands will be addressed, but Algebra will be a focus.</i>	
<b>1048</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Jennifer L Graham
		<b>Gallberry Gators Get the Goods!</b>	
		<i>Learn how Gallberry Farm Elementary used a variety of grants to create "The Gallberry Farm Mathematics and Science Laboratory". Find out where we found funding(including an NCCTM Mini-Grant!), what we purchased, and how we're utilizing the lab! Then learn how this initiative goes hand-in-hand with our Instructional Coaching!</i>	
<b>1052</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Erin Hone
		<b>Problem Solving Investigators</b>	
		<i>Are you ready to pull your hair out with students who rush through math problems and make careless errors? Come and learn how to turn those Problem-Solving Racers into Problem-Solving Investigators.</i>	
<b>1056</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Helen Crompton
		<b>Authentic Math: Bringing math into the real world.</b>	
		<i>This session provides practical ways in which teachers can connect mathematical concepts to the students own lives. We will look at concepts such as geometry in the home, decimals in the local supermarket and even cookery and recipe manipulation. If you want to make math meaningful for your students, come to this session and bring your math class into the real world.</i>	
<b>1060</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Mary Ann Davis
		<b>Teaching Important Concepts Using Children's Literature</b>	
		<i>Marilyn Burns, Cindy Neuschwander, Loreen Leedy, and other authors provide fun and helpful literature connections for upper elementary math students. These resources will motivate students!</i>	

<b>1064</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Thomas E. Kirkley
		<b>5 Fundamental Levels of Team (Collaborative) Teaching</b>	
		<i>The 4 members will discuss 1. Collaboration 2. Commitment 3. Co-Teaching Strategies 4. Grouping Student according to Strength 5. Hands on Activities These topics will be discussed in detail to ensure student achievement within the classroom.</i>	
<b>1068</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Adam P Harbaugh
		<b>Video Stories to Graphs to Video Stories</b>	
		<i>This session will explore ways to help students interactively navigate between representations. Students create graphs to match videos and create videos to match graphs.</i>	
<b>1072</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Teresa Petty
		<b>Active Algebra Activities</b>	
		<i>This session will engage the audience in active Algebra activities that can be utilized in the Algebra I classroom. Current technologies will be highlighted.</i>	
<b>1076</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> John E Pritchett
		<b>Assessment for All</b>	
		<i>A testing/grading strategy to make assessments challenging for the high-achieving student while accessible to the weak-performing student. Provide your students an opportunity to attempt challenging problems safely.</i>	
<b>1080</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Holt Wilson
		<b>Using Digital Video in Instruction and Assessment</b>	
		<i>Got a Flip® camera or a smartphone? In this session, we will share ideas for using video to enhance instruction and support assessment.</i>	
<b>1084</b> Session	Thur	9:30 AM - 10:15 AM	<b>Speaker:</b> Vivien C Windley
		<b>Making Math Work</b>	
		<i>Making Math Work is a collaborative effort between the math teachers and the CTE teachers in our high schools. It is an effort for students to see math in context. The teachers have aligned the math and CTE courses, learned new vocabulary, and plan to implement the program in the fall.</i>	
<b>1088</b> Session	Thur	10:30 AM - 12:00 PM	<b>Speaker:</b> Mary H Russell
		<b>Revised Bloom's™ Taxonomy and Formative Assessment: A Dynamic Duo for Informing Instruction and Enha</b>	
		<i>Together the Revised Bloom's Taxonomy and Formative Assessment serve as a tool that addresses the various needs of learners. Through discussions, demonstrations, and learning experiences, this collaborative, hands on session is designed to share how the effective use of the two can lead to clarity of instruction and enhanced student learning.</i>	
<b>1092</b> Session	Thur	10:30 AM - 12:00 PM	<b>Speaker:</b> Laura A Candler
		<b>Teaching Math for Mastery</b>	
		<i>We teach, but are students learning? This workshop takes a fresh look at mastery learning, a tried-and-true teaching method. Learn how to ensure mastery by implementing this instructional model in your mathematics classroom. Participants will explore practical, easy-to-use strategies to close achievement gaps and enable ALL students to excel.</i>	
<b>1096</b> Session	Thur	10:30 AM - 11:15 AM	<b>Speaker:</b> Kelly H Jackson
		<b>Inquiry math centers - Wouldn't it be nice if students taught themselves?</b>	
		<i>In this session I will show you how to create inquiry math centers. These centers will allow you to teach all the major goals each day. I will also explain ways to use review and preview centers to help students learning things forever not just the moment. Lastly there will be some suggestions on making students the teachers.</i>	

<b>1100</b> Session	Thur	10:30 AM - 11:15 AM	<b>Speaker:</b> Katie Schwartz
		<b>Making Math Stations Work</b>	
		<i>Learn how to set up math stations in your classroom to differentiate for all your students. Number sense activities and organizational tips will be shared.</i>	
<b>1104</b> Session	Thur	10:30 AM - 11:15 AM	<b>Speaker:</b> Cathy C Willis
		<b>Rhyme Time in Math</b>	
		<i>We will present fun and engaging poems, rhymes, and songs to spice up math lessons for young students. The poems, rhymes, and songs are the springboard for many math concepts.</i>	
<b>1108</b> Session	Thur	10:30 AM - 11:15 AM	<b>Speaker:</b> Sheena R Wisnasky
		<b>Math Group Madness</b>	
		<i>Math groups is a great way to provide interventions and enrichment for your students. This session will give you tips on how to manage math groups within your classroom, determine what types of activities can be used within your groups and what to do with those independent workers.</i>	
<b>1112</b> Session	Thur	10:30 AM - 12:00 PM	<b>Speaker:</b> Acquilla F McCoy
		<b>Building the Bridge between Relationships and Learning</b>	
		<i>This presentation will provide educators will strategies that can increase motivation in low-performing at-risk pupils through alternative teaching techniques. The strategies presented have been used and tested in the alternative setting.</i>	
<b>1116</b> Session	Thur	10:30 AM - 11:15 AM	<b>Speaker:</b> Debra A Rohn
		<b>Ways of Communicating Mathematics</b>	
		<i>This presentation will highlight diverse ways of communicating in the math classroom. The goal of communicating is to make a significant difference with long-lasting effects that will improve all students' motivation and achievement in math, while creating a caring culturally responsive learning environment.</i>	
<b>1120</b> Session	Thur	10:30 AM - 12:00 PM	<b>Speaker:</b> Bill Scott
		<b>Sports Data for Middle School</b>	
		<i>Sports data is easily accessible and easy to use. We will look back at the Winter Olympics, the World Cup, check out college and professional football, and look ahead to basketball and hockey. Bring a calculator.</i>	
<b>1124</b> Session	Thur	10:30 AM - 11:15 AM	<b>Speaker:</b> Cynthia B Warner
		<b>Using NASCAR math to teach Middle School Students</b>	
		<i>Using NASCAR to address seventh grade math objectives and as a classroom management strategy</i>	
<b>1128</b> Session	Thur	10:30 AM - 11:15 AM	<b>Speaker:</b> Denise T Johnson
		<b>Connecting Pre-Service Candidates with MEd Candidates in a Virtual Mentoring Environment</b>	
		<i>Pre-service candidates in a mathematics methods course were mentored by MEd candidates in a graduate mathematics methods course in a virtual environment. Come and learn how the candidates used technology to bridge the gap between pre-service and in-service teaching.</i>	
<b>1132</b> Session	Thur	10:30 AM - 12:00 PM	<b>Speaker:</b> Cathy Fosnot
		<b>Developmentally-appropriate Practice vs. a Practice that Develops Young Mathematicians: the Case of Multiplication</b>	
		<i>Developmentally-appropriate practice usually is depicted by diagnosis of the stage of learning followed by a set of matching, prescribed "hands-on" activities. In this session, we will explore and contrast a different practice--one that is designed to foster the development of young mathematicians by involving them in rich, open-ended but didactically-crafted, investigations. Young mathematicians even at an early age thrive on inquiring and defending their solutions in communities of discourse and reflection. The topic of multiplication and its development will be used as an example with connections made to formative assessment, differentiation, and the Common Core Standards.</i>	

<b>1136</b> Session	Thur	10:30 AM - 12:00 PM	<b>Speaker:</b> Clif Mims <b>Integrating Higher-Order Thinking Skills into High School Mathematics</b> <i>Keynote speaker Clif Mims will talk about how to integrate higher-order thinking skills and problem solving into secondary mathematics classrooms.</i>
<b>1140</b> Session	Thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Michael R Swinson <b>Mini-Session Paparazzi</b> <i>Nine teachers will each present a 15 minute mini-session two times during the 45 minute period. Elementary and Middle School topics will be covered. Session begins with overview of professional development model(s) utilized in the teachers' leadership study within the grant.</i>
<b>1144</b> Session	thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Helen Crompton <b>How to create podcasts and vodcasts to dazzle your math students</b> <i>This session will demonstrate step by step instructions on how you can create podcasts (audio files) and vodcasts (audio and video files) that can be created by teachers or students.</i>
<b>1148</b> Session	Thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Joyce Kohfeldt <b>Off to a Good Start</b> <i>Explore high energy activities for learning numbers, sequencing, 1 to 1 correspondence and lots more. Handout of ideas will be provided.</i>
<b>1152</b> Session	Thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Kerri Richardson <b>Developing Number Sense with the Rekenrek</b> <i>A rekenrek or arithmetic rack is a tool composed of 2 rods with 10 beads on each rod. In this session, attendees will make a rekenrek with provided materials. Strategies will be discussed on how to use the rekenrek as a tool in helping children develop number sense.</i>
<b>1156</b> Session	Thur	11:30 AM - 1:00 PM	<b>Speaker:</b> Tonya Houpe <b>Making Math Fun</b> <i>Teach the essentials while facilitating high student engagement! Learn how students can experience "Real Life", construct Dream Houses, cook in the classroom, and much more!</i>
<b>1160</b> Session	Thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Cynthia Wortham <b>Writing in the Mathematics Classroom</b> <i>We will share writing activities that are appropriate for the learning, applying and assessing of math concepts and procedures.</i>
<b>1164</b> Session	Thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Jennifer L Aguilar <b>Assessments that Work</b> <i>An in depth look at how mini-assessments can drive your instruction and increase student achievement at record levels. Sample assessments will be distributed as well as time for collaborative discussion with colleagues.</i>
<b>1168</b> Session	Thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Mary F Davis <b>Why should I excuse my dear Aunt Sally?: Focusing on misconceptions in the math classroom</b> <i>All children know math! Don't laugh! The problem is the validity of what they have learned. Too often children are taught ways to remember things without the conceptual understanding necessary to use them. Come find out ways to revise misconceptions and move forward in any math class!!</i>
<b>1172</b> Session	Thur	11:30 AM - 1:00 PM	<b>Speaker:</b> Kimberly E Daily <b>NCAAPST Annual Meeting</b> <i>We will discuss the 2010 AP Statistics free-response questions. Exam graders will share solutions, rubrics, and common student mistakes for the 2010 free-response questions. Come join us to learn more about NCAAPST!</i>

<b>1176</b> Session	Thur	11:30 AM - 12:15 PM	<b>Speaker:</b> Farrah J Chandler
		<b>Connecting Elementary and Secondary Preservice Mathematics Candidates through Vertical Alignment</b>	
		<i>This presentation will discuss a project that is built upon Liping Ma's concept of a knowledge package between preservice mathematics elementary and secondary preservice mathematics candidates. Come see how to promote profound understanding of fundamental mathematics using vertical alignment.</i>	
<b>1180</b> Session	Thur	12:30 PM - 2:00 PM	<b>Speaker:</b> Phil Daro
		<b>Common Core Standards: An Overview</b>	
		<i>Come listen to Phil Daro, one of the Common Core authors discuss the new Common Core standards.</i>	
<b>1184</b> Session	Thur	12:30 PM - 2:00 PM	<b>Speaker:</b> Marta Garcia
		<b>Studio Math Classrooms: Analyzing Student Discourse</b>	
		<i>How can we support student discourse? This presentation will examine how teachers are analyzing students' ideas in order to press for mathematical understanding. We will watch video clips of classrooms and teachers as they examine student discourse.</i>	
<b>1188</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Kelly Hines
		<b>Web 2 Point What?</b>	
		<i>This session addressed using free, web-based tools to enhance teaching and learning in the math classroom.</i>	
<b>1192</b> Session	Thur	12:30 PM - 2:00 PM	<b>Speaker:</b> Anita N Kitchens
		<b>Beliefs and Brain Study in Teaching</b>	
		<i>Far too often, students believe that they cannot learn math. This presentation discusses the relevance of cognitive psychology and recent brain research in the learning of mathematics.</i>	
<b>1196</b> Session	Thur	12:30 PM - 2:00 PM	<b>Speaker:</b> Johannah Maynor
		<b>The Importance of Formative Assessment</b>	
		<i>NCFALCON, North Carolina's Formative Assessment Learning Community Online, will be introduced and the first module, "The Importance of Formative Assessment", will be reviewed. The module provides an introduction to formative assessment and its role in North Carolina's 21st Century Balanced Assessment System. This session will enhance teacher interest in formative assessment and assist in the completion of online professional development through the NCFALCON module series.</i>	
<b>1200</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Jerry D Taylor
		<b>Winning and Losing Streaks</b>	
		<i>Streaks can be challenging for both our intuition and our mathematics. Do players really get a Hot-Hand? Knowing what to expect is all important.</i>	
<b>1204</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Jan Wessel
		<b>NCCTM First Timers</b>	
		<i>We are here to help you get the most out of your first NCCTM conference. All first timers are encouraged to participate. Please join us for an informal session to learn about what you can expect at the conference and about what NCCTM has to offer you as a member.</i>	
<b>1208</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> C E Davis
		<b>Implementing Goal Focus Review Strategies</b>	
		<i>Many teachers wonder about reviewing the mathematics curriculum at the end of the year. This presentation focuses on how to implement goal focused review strategies.</i>	

<b>1212</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Kim Chamerlin
		<b>Building Understanding: Dog Houses, Fun Houses and Apartments</b>	
		<i>We will share a real-world differentiated multi-component problem-solving unit that integrates number, geometry, algebra, and measurement. Kids will love planning to construct a dog house, an apartment, and a fun house.</i>	
<b>1216</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Michael Elder
		<b>Tools of Tomorrow, Manipulatives of Today</b>	
		<i>Come join us as we explore the connection between virtual and tangible manipulatives. We will examine a variety of online math manipulatives and explore when to use each.</i>	
<b>1220</b> Session	Thur	12:30 PM - 2:00 PM	<b>Speaker:</b> Amy E Lindley
		<b>Using Assessments for Learning in 3-5</b>	
		<i>Participants will learn how to use data to make appropriate instructional decisions based on 3-5 math assessments. Participants will also learn about the math instructional model cycle which consists of assessments and instruction. This teaching model correlates to North Carolina's new teacher evaluation tool, using data to improve instruction.</i>	
<b>1224</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Rebecca S Planey
		<b>Smart Boards and Math: Increasing Student Engagement</b>	
		<i>Participants will learn useful strategies to engage students in grades 3-5 using Smart Board technology. Focus for this interactive presentation will be on resources, differentiation strategies, and classroom activities.</i>	
<b>1228</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Rich Stuart
		<b>Ten Days to Multiplication Mastery</b>	
		<i>Introduce, practice and learn Multiplication tables in 10 Days using the power of Commutative Properties.</i>	
<b>1232</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Nona B Baker
		<b>Becoming a True "PLC"</b>	
		<i>We use formal and informal assessments to place our students in flexible groups in order to meet the needs of all students.</i>	
<b>1236</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Mike McDowell
		<b>Aim High: Connecting Math to Reading-Interdisciplinary Teaching of Math</b>	
		<i>Participants will work on and be given copies of lessons that connect math to children's literature and lists of books that are applicable to math goals.</i>	
<b>1240</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Christian Jones
		<b>The Joy of Multiple Representations</b>	
		<i>We will show how to enhance students' problem solving skills using multiple solution methods to the same problem.</i>	
<b>1244</b> Session	Thur	12:30 PM - 1:15 PM	<b>Speaker:</b> Maggie Rollison
		<b>The Impact of the Tools for Algebraic Thinking Course on Student Achievement and Anxiety in Algebra</b>	
		<i>This session presents the results of my doctoral study evaluating the effectiveness of an intervention for Algebra I. Students are dually enrolled in Algebra I and the Tools for Algebraic Thinking course. The course focuses on pre-requisite skills needed, re-emphasizing objectives taught in Algebra I, and assistance with homework.</i>	
<b>1246</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Kelly Hines
		<b>Using Google Docs to Enhance Teaching and Learning in Math</b>	
		<i>Come learn how to enhance teaching and learning in your classroom using Google Docs with your staff and students.</i>	

<b>1250</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Stephanie N Sanders
		<b>Utilizing Summarizing and Notetaking in Mathematics</b>	
		<i>This presentation will increase a teacher's ability to utilize this strategy to encourage students with identified needs in Math to put the information in their words in order to make connections and become comfortable in communicating through math talk.</i>	
<b>1254</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Karen R. Dawkins
		<b>Algebra in the Real World</b>	
		<i>Middle and high school teachers from Hertford, Northampton, and Bertie Counties provide original lessons for students that call for algebraic thinking in the context of their everyday lives--at home, at school, at work and play. Handouts and other resources will be provided for participants.</i>	
<b>1258</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Jennifer E Ingram
		<b>Celebrate Math!</b>	
		<i>Using holiday themes, all curriculum standards will be addressed. Teachers will leave with festive activities that reinforce math concepts while promoting the love of math.</i>	
<b>1262</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Judy H Snow
		<b>Parent Involvement: The Missing Piece for Greater Math Success</b>	
		<i>Our Parents are a very valuable resource if we know how to get them involved! Empower your parents through an effective Parent Math Night using an innovative resource book that connects them to the curriculum. This session is repeated Friday at 11:30 in Heritage B.</i>	
<b>1266</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Rebecca S Borowski
		<b>Geometry Origami</b>	
		<i>Need to get your students excited about geometry? Come hear about our paper folding unit designed for 3rd-5th grade students which uses rigorous geometry vocabulary. Participants will receive a CD with files that are ready-to-use in the classroom!</i>	
<b>1270</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Lloyd Jones
		<b>Connecting Climbing Monkeys and Slope</b>	
		<i>Participants will access online activities that promote math discussion in the middle school classroom.</i>	
<b>1274</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Shelby P Morge
		<b>Reasoning about Proportions</b>	
		<i>Proportional reasoning tasks are often a significant challenge for middle school students. In this session, participants will work through activities aimed at helping students develop proportional reasoning.</i>	
<b>1278</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Becky Caison
		<b>How Do you Use the TI-83/84 Plus Calculator to Enhance Algebraic Understanding?</b>	
		<i>The calculator should be more than a computational tool in the classroom. How do we use the features of the graphing calculator to increase a student's understanding of algebraic concepts? Activities and ideas will be shared. Participants will be encouraged to share their best practices. Note: Session overlaps levels -- 7-9</i>	
<b>1282</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Deborah M Keel
		<b>Using graphic organizers in the classroom</b>	
		<i>This session will demonstrate how to use a variety of maps. Strategies will be given on when and how to use each map. Examples will be shown involving high school math classes from Algebra I to Calculus.</i>	
<b>1286</b> Session	Thur	1:30 PM - 3:00 PM	<b>Speaker:</b> Leah McCoy
		<b>Ripped from the Headlines: Math in the News</b>	
		<i>This presentation will share a variety of motivating application projects that are directly related to current events. The mathematics will include algebra, geometry, and statistics</i>	

<b>1290</b> Session	Thur	1:30 PM - 2:15 PM	<b>Speaker:</b> Elizabeth Shepard
		<b>Population growth: Separable differential equations and the logistic model</b>	
		<i>A project for the AP Calculus BC student that compares a slope field solution, Euler's method solution and an analytic solution of a separable differential equation.</i>	
<b>1294</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Kevin Primus
		<b>Taking the plunge into the reform curriculum waters</b>	
		<i>Presenters will discuss their experiences making the transition from a traditional textbook to an NSF funded product. Teacher, student, and parent perspectives are considered.</i>	
<b>1298</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Alan Russell
		<b>Measurement Activities for K - 8 Teachers</b>	
		<i>We focus on everyday manipulatives and strategies to re-energize the mathematics classroom. From measuring with non-standard units to a unique angle measurement tool, we highlight topics across the K - 8 curriculum.</i>	
<b>1302</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Desha Williams
		<b>Using Culture to Motivate Students</b>	
		<i>Have you ever had students not motivated to engage in mathematics? This session will offer cultural integration possibilities that may help you overcome this challenge.</i>	
<b>1306</b> Session	Thur	2:30 PM - 4:00 PM	<b>Speaker:</b> Michael J. Bosse
		<b>Sketchpad for Intermediates Through Experts</b>	
		<i>You think you know Sketchpad? Come and have some fun learning some new and cool stuff you can do with Sketchpad. It's not just for geometry.</i>	
<b>1310</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Jere Confrey
		<b>Common Core: An Overview</b>	
		<i>An author of the Common Core Mathematics Standards will describe the rationale and aspects of the standards.</i>	
<b>1314</b> Session	Thur	2:30 PM - 4:00 PM	<b>Speaker:</b> Deborah A. Crocker
		<b>Everything You Always Wanted to Know About Math Fairs</b>	
		<i>Members of the Math Fair Committee will share information on the regional and state math fairs. Also, former math fair winners will speak. Hand-out provided.</i>	
<b>1318</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Torriann M Dooley
		<b>Using Rigorous &amp; Relevant Standard Based Assessments to Evaluate Student Learning</b>	
		<i>We'll share our school's efforts of choosing essential NCSCOS standards and creating rigorous assessments to evaluate mastery. Teachers will examine work and create an assessment.</i>	
<b>1322</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Susan Friel
		<b>Using Assessment to Improve Instruction</b>	
		<i>This session will focus on a set of interviews for K-3 students, used to assess critical learning phases. It will provide an overview of the interview program and then address one critical learning phase, thinking in tens and ones, as an example of how to use this interview to inform instruction.</i>	
<b>1326</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Leigh Hutchins
		<b>Using Games to Connect Language, Thinking, and Mathematics for Students' Conceptual Understanding</b>	
		<i>This interactive presentation will explore strategies for using math games to orchestrate student discourse, assess student understanding, and encourage parent involvement. Participants will be involved in playing games throughout the session and will receive an extensive handout as well as many good ideas for how to implement math games strategically throughout the curriculum.</i>	

<b>1330</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Allison W. McCulloch
		<b>Math Autobiographies and Early Elementary Teaching: What is Your Math Story?</b> <i>We will engage the participants in an analysis of their own experiences as learners of mathematics and discuss the implications of these experiences with respect to their ongoing teaching and learning of mathematics.</i>	
<b>1334</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Ellen B Blue
		<b>Nothing to Grade</b> <i>Fun math activities that let you assess your students without spending your afternoons grading papers. Take students from the worksheet to up on their feet!</i>	
<b>1338</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Marci L Matchett
		<b>Math Stations for Dummies</b> <i>Do you want to keep your students engaged and hold them accountable with limited paperwork? Then this is the session for you. Come see how you can incorporate all the standards into a week of math instruction utilizing math stations. This session is also offered Thursday at 8:30 in Imperial H.</i>	
<b>1342</b> Session	thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Dawne E Coker
		<b>Raising Reasoning in Mathematics</b> <i>This session will focus on building the critical thinking skills that are necessary for mathematical reasoning and understanding. Participants will learn strategies to promote these essential skills and receive extensive, ready-to-use activities for the K-5 classroom. Note: This session will be repeated Friday at 1:15 p.m.</i>	
<b>1346</b> Session	thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Sherrie E Hines
		<b>Real Life Algebra</b> <i>Algebra come alive for your students? Stop on by for a fun filled packet of games, projects and worksheets that will help your students understand topics such as slope, y intercept and more!</i>	
<b>1350</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Marc R Worth
		<b>MATHCOUNTS</b> <i>Discuss the MATHCOUNTS program explain the materials it provides and the benefits in participating in the program. In the past this has been more of a roundtable discussion than a presentation. MATHCOUNTS is a national program open to 6th, 7th, and 8th graders</i>	
<b>1354</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Opal J Baker
		<b>Boys: Howie do Math!</b> <i>Providing activities and strategies to motivate and engage sixth grade boys to be successful in Math using the NC Standard Course of Study.</i>	
<b>1358</b> Session	Thur	2:30 PM - 4:00 PM	<b>Speaker:</b> Betty Dean
		<b>People Count: Math and Demography in the Year of the Census</b> <i>In this year of the decennial census, discover timely and innovative, hands-on activities for drawing connections between math and social studies. Students will learn about U.S. demographic trends past and present while honing their skills in algebra, data analysis, problem solving, measurement and more. Free CD-ROM of activities!</i>	
<b>1362</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Sara R Hinsley
		<b>Algebra: An Interactive Approach using SAS® Curriculum Pathways®</b> <i>Multimedia approach for teaching algebra, including lessons and interactive tools (for simplifying, solving, and graphing) to increase student engagement and achievement. (FREE to all middle and high schools)</i>	
<b>1366</b> Session	thur	2:30 PM - 4:00 PM	<b>Speaker:</b> Martha Ray
		<b>NCAAPMT Meeting</b> <i>Come review last year's released items from the AP Calculus test and participate in our annual meeting.</i>	

<b>1370</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> William Ross
		<b>Fractal Fun with a little Chaos</b>	
		<i>We'll explore Sierpinski triangle through geometry, algebra, random numbers, the Chaos Game, and Pascal's triangle and tie it all together with an introduction to limits. Students really enjoy this discovery activity. Bring a TI-84 calculator.</i>	
<b>1374</b> Session	Thur	2:30 PM - 4:00 PM	<b>Speaker:</b> Kenneth Collins
		<b>Explorations To Improve Student Understanding of Limits &amp; Derivatives</b>	
		<i>This session will share several investigations we have used in the classroom to help strengthen our students' understanding of limits. We will discuss some ideas for developing these investigations and offer reproducible copies to use in your classes. All levels of teaching experience are welcome.</i>	
<b>1378</b> Session	Thur	2:30 PM - 3:15 PM	<b>Speaker:</b> Kate A Best
		<b>Courtroom Probability and Statistics</b>	
		<i>This session will examine the use of courtrooms as a context for students to expand on their own statistical literacy. The presenter will provide classroom resources and activities for using using courtroom probabilities in an introductory statistics classroom.</i>	
<b>1382</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> April B McConneaughey
		<b>The Essentials of Program Evaluation</b>	
		<i>This session will focus on how to design an effective Program Evaluation and how to utilize the results to promote the fidelity of continued and future programming. A model Program Evaluation will provide the basis for this session.</i>	
<b>1386</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Tracie M Salinas
		<b>What Do We Know About Mathematics Education Right NOW?</b>	
		<i>Policy and research results aren't always in sync with one another, making it difficult to know what are the most current understandings about mathematics teaching and learning. In this talk, we'll look at some of the current findings in research and what their implications are at the classroom and school levels and beyond.</i>	
<b>1390</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Sandy Wheat
		<b>SMG and Math Behind the Market</b>	
		<i>Provides an introduction to the SMG program and Math Behind the Market, a curriculum for participation in an online stock market simulation. Teachers will learn how to receive free access to the curriculum.</i>	
<b>1394</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Sandy Childrey
		<b>NCCTM Minigrants Overview</b>	
		<i>This sessions will address all you've ever wanted to know about the NCCTM minigrants. Topics will include guidelines, do's and don't's, and the minigrant evaluation process.</i>	
<b>1398</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Rich Stuart
		<b>Student Guided Math Centers That Align to National Standards</b>	
		<i>Self-Correcting Math Centers that support national standards and are easy to supervise from across the room.</i>	
<b>1402</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Stephanie M Masters
		<b>Web 2.0 - Using Technology For Fun in the Classroom</b>	
		<i>Integrating technology such as ning, delicious, wordle, twitter, and youtube seems unrealistic. This seminar can be used by those of you that know how to email to those of you who can build their personal computer. Come explore and investigate the web as an interactive classroom.</i>	
<b>1406</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Martha Nunnally
		<b>On the Spot</b>	
		<i>Will demonstrate how to use technology and cps units for on the spot teaching and assessment.</i>	

<b>1410</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Jeanie M Eskridge
		<b>Old school meets new school.</b>	
		<i>Teaching strategies shared by 7th and 8th grade teachers. School pad and graphing calculator activities will be shared, as well as, power point presentations and basic tried and true teaching techniques. Link to our webpages will be provided in order to access all presentations.</i>	
<b>1414</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Nicholas Ewen
		<b>The Ratio Box: A Cure for the Proportionally-Challenged Student</b>	
		<i>Do your students struggle with proportions? If so, they need the ratio box! Learn how this flexible problem-solving tool can help solve a variety of problems based on proportional relationships.</i>	
<b>1418</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Gregory S Fisher
		<b>Activities for Mathematics Teachers</b>	
		<i>The presentation will present about 15 activities that classroom teachers can use in any math class. The activities are meant to introduce or review concepts while keeping the students engaged.</i>	
<b>1422</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Sara Hinsley
		<b>Geometry: An Interactive Approach using SAS® Curriculum Pathways®</b>	
		<i>An interactive approach to teaching geometry using lessons and interactive tools to increase student engagement and achievement. (Available FREE to all middle and high schools.)</i>	
<b>1426</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Jill L Howard
		<b>Mathematic Vertical Teaming</b>	
		<i>An overview of the benefits of a vertical team will be covered, providing an outline of the vertical team plan for Crest Middle and High Schools. Special attention to creating a seamless transition in mathematics. Topics of focus will be identifying common math topics that start in middle school and are carried throughout Calculus.</i>	
<b>1430</b> Session	Thur	3:30 PM - 4:15 PM	<b>Speaker:</b> Lloyd Jones
		<b>Teaching for Algebraic Understanding: Different Approaches</b>	
		<i>Participants will look at different ways of teaching algebraic concepts in the high school classroom, including activities that promote discussion.</i>	
<b>1434</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Patrick W Curley
		<b>Dedicated Science and Math Labs in Elementary Schools</b>	
		<i>The advantages and the process of developing dedicated math and science learning laboratories that have been developed in several elementary schools in Onslow County.</i>	
<b>1438</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Cheryl L Keeton
		<b>Effective Research-based Strategies for Professional Development in Formative Assessment</b>	
		<i>Learn how this project supports faculty as they create formative assessment strategies that put learning in the hands of the students. Communication methods, resources, tools, and techniques that can easily be used by teachers at all levels will be shared. Simple methods to support professional development will be demonstrated.</i>	
<b>1442</b> Session	Fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Margaret H Small
		<b>Assessment as a tool for increased student learning: Looking at outcomes</b>	
		<i>Presentation and discussion of the role that Standards-based Outcome assessment plays in increasing student motivation for perseverance in hard work and focused teacher collaboration in clarifying standards for achievement</i>	
<b>1446</b> Session	fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Michael J. Bosse
		<b>Hottest, New Manipulatives</b>	
		<i>We will be looking at some of the newest manipulatives hitting the market (and some not quite out yet) spanning K-8 mathematics.</i>	

<b>1450</b> Session	Fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Kristin D Bedell
		<b>Finding the "Edge": One School's Journey in RTI</b>	
		<i>How can you assess and document student growth as they move through developmental phases of conceptual understanding in number? How does a school develop and implement procedures for such assessment? And how might conversations about such an assessment process serve as the basis for powerful professional development conversations within and across grade levels?</i>	
<b>1454</b> Session	Fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Amy E Lindley
		<b>Assessments for Learning in K-2</b>	
		<i>Participants will learn how to gather data based on K-2 math assessments to plan appropriate and differentiated instruction. Participants will learn how to analyze assessment information and make decisions about small group instruction based on needed skill areas in math. In addition, participants will learn how to use the math instructional model which cycles assessment and instruction.</i>	
<b>1458</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Chanel B Carrell
		<b>A Hands-On Approach to Fractions</b>	
		<i>This session is designed to help build fraction concepts. Teacher will use manipulatives to explore new ways of thinking about equivalent fractions, mixed numbers and part to whole ratios. Fractions fun is for everyone. This class is designed for teachers of students in grades 3-4.</i>	
<b>1462</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> William A McGalliard III
		<b>Using Tinkerplots to Enhance Data Analysis</b>	
		<i>In this session, we introduce Tinkerplots, a dynamic software package developed to support young students develop conceptual understandings of data.</i>	
<b>1466</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Katie Schwartz
		<b>Encouraging Number Sense in Struggling Students</b>	
		<i>Get the most out of EOG practice problems! Rote methods are soon forgotten. Learn ways to help struggling students develop number sense for effective problem-solving.</i>	
<b>1470</b> Session	Fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Jodi Slonaker
		<b>Creating a Foundation for Rational Numbers</b>	
		<i>Rational numbers are a challenge for students of all ages. In this sessions participants will learn and practice specific strategies for dealing with common student misconceptions that develop at an early age, helping to improving mastery of early rational number sense.</i>	
<b>1474</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Joseph D'Agnes
		<b>Why Fibonacci Matters</b>	
		<i>In this playful, highly visual presentation, a NC children's book author will reveal how you can use the story of Fibonacci to teach more than just number patterns. Learn how this medieval mathematician's tale connects with seven crucial disciplines: math, science, art, literature, history, language, and lasagna!</i>	
<b>1478</b> Session	Fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Janel E Johnson
		<b>5 DOZEN Resources to use RIGHT NOW!</b>	
		<i>Martin Luther King, Jr. Middle School is located in the urban and culturally diverse University area of Charlotte. Attendees receive information on 60 resources used by teachers as part of a collaborative culture that promotes student learning and growth.</i>	
<b>1482</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Sarah Rowland
		<b>Peer Tutoring and Social Learning</b>	
		<i>Individualized assistance for struggling mathematicians, PEER based program for social learners, Increased student achievement!, Training tutors, Parental mobilization and involvement</i>	
<b>1486</b> Session	Fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Gina Allred
		<b>The Basics of TI-Navigator</b>	
		<i>TI Navigator is an interactive tool for teachers and students to see what the whole class is doing. Come see the basics and how it can enhance your teaching.</i>	

<b>1490</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Adam P Harbaugh
<b>An Inside Look at the Summer Ventures for Science and Mathematics Program</b>			
<i>An exciting and informative overview of the Summer Ventures in Science and Mathematics program including a discussion of the application process.</i>			
<b>1494</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Maria L Hernandez
<b>Exponential Functions and the Global Energy Crisis</b>			
<i>We will explore how changing a light bulb can affect energy savings, cut CO2 emissions and save money. We will also explore some data analysis problems related to the global energy crisis. The mathematical topics include exponential functions, geometric series, and re-expressions techniques. The problems are accessible to Precalculus students.</i>			
<b>1498</b> Session	Fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Karen Hollebrands
<b>Exploring properties of quadrilaterals using dynamic geometry software</b>			
<i>Participants will explore properties of quadrilaterals using dynamic geometry software.</i>			
<b>1502</b> Session	Fri	8:30 AM - 10:00 AM	<b>Speaker:</b> Roberta Rohan
<b>Utilizing Earth System Science in the Secondary Math Classroom to Improve Student Learning &amp; Engagement</b>			
<i>This presentation will share the outcomes of a new and innovative NASA STEM partnership between Guilford County Schools and NC A &amp; T State University.</i>			
<b>1506</b> Session	fri	8:30 AM - 9:15 AM	<b>Speaker:</b> Robin Barbour
<b>OCS Math A</b>			
<i>Students in the OCS Exceptional Children's Program must be tested on the Math A standards beginning in 2010-2011. Come learn about the requirements and content expectations for this program.</i>			
<b>1510</b> Session	Fri	8:30 AM - 10:15 AM	<b>Speaker:</b> Karen H Collins
<b>Calculus Concept Connectors</b>			
<i>Activities that help students understand the concepts behind some of the big ideas in AP Calculus AB - derivative/slope and antiderivative/accumulation</i>			
<b>1514</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Alan Russell
<b>Exploring North Carolina Graphically</b>			
<i>Join us as we explore characteristics of the Tar Heel State using a dynamic statistics software package. We will discuss ways in which this single data set can be revisited throughout the K-12 curriculum as students grow in their ability to analyze data. This useful visualization will help us explore economic and geographic data all the way from Murphy to Manteo.</i>			
<b>1518</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Kitty Rutherford
<b>DPI Update, Grades K-5</b>			
<i>What's new for grades K-5 from DPI? How will the Common Core affect elementary teachers and students? Find out in this session.</i>			
<b>1522</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Meredith Stanley
<b>Connecting Arithmetic and Algebra</b>			
<i>How do students connect arithmetic ideas and algebraic reasoning? This presentation will share how classroom discourse can be impacted by structuring number routines that promote observations of algebraic ideas. This work originated from an NSF project.</i>			
<b>1526</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Amy Scrinzi
<b>Internalize Those Facts!</b>			
<i>Help your students truly internalize math facts- rather than just memorize them in isolation! Participants will explore ways to help students build understanding of number combinations through whole group and small group strategies</i>			

<b>1530</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Laura S Lowder
			<b>Blogs Used to Increase Student Attitudes and Self-Efficacy About Mathematics</b>
			<i>Grades 3-4 action research will be shared to explain how blogging has the potential to positively affect student attitudes, self-efficacy, and metacognition. Participants will also learn how to set up your own collaborative classroom blog about mathematics with the goal of a positive impact on student learning.</i>
<b>1534</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Jessie C Store
			<b>Enhancing Algebraic Reasoning through Pattern Finding Activities</b>
			<i>Addressing the NCTM's algebra standard for elementary schools can be made meaningful and fun with pattern finding activities. Participants will work hands on with activities and discuss how these can be used to enhance algebraic reasoning.</i>
<b>1538</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Holly O Grissom
			<b>Tiered Math Projects</b>
			<i>Meeting the needs of each student can often be challenging. In order to help my students feel more successful, I created a variety of tiered math projects that cover geometry, fractions, decimals, percents and a variety of other mathematical concepts. Come and learn about mild, medium and hot levels of projects.</i>
<b>1542</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Darlene L Haight
			<b>Summer Ventures in Science and Math - Student Presentations of Award-Winning Research</b>
			<i>High school students present their award-winning research conducted in summer 2010 at Summer Ventures in Science and Mathematics, a four-week inter-institutional program of the UNC System.</i>
<b>1546</b> Session	Fri	9:30 AM - 11:00 AM	<b>Speaker:</b> Sandee House
			<b>Improve Test Scores! Develop Better Problem Solvers! MathXL for School</b>
			<i>Improving problem solving means first improving fundamentals skills. MathXL for School will help students meet state standards, improve college-readiness, and develop better problem solvers.</i>
<b>1550</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Rachel S Lawrence
			<b>Using interactive notebooks to create independent learners</b>
			<i>An overview of my experience implementing interactive notebooks in a section of Honors Geometry. Hear the good, the bad, and leave with what you need to implement this effective tool in your own class.</i>
<b>1554</b> Session	Fri	9:30 AM - 10:15 AM	<b>Speaker:</b> Julie S Riggins
			<b>Cool Demonstration Activities with the TI Nspire Software</b>
			<i>Most students and classes do not have the TI-Nspire handhelds yet, but don't let that stop you from using this powerful technology to engage and teach your students. I will share activities ranging from parallel and perpendicular lines, to rotations and circumcenter, to derivatives and integrals. Note: This session will be repeated Friday at 1:30 p.m.</i>
<b>1558</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Laura S Lowder
			<b>Innovative Uses of Web Tools for Mathematics Learning</b>
			<i>Participants will be introduced to simple, innovative ways to implement strategic use of web tools for mathematics learning outcomes. The focus of these examples will be grades 3-5, although the strategies shared can be applied to students at all levels of learning.</i>
<b>1562</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Janice L Richardson
			<b>Connecting Theory to Practice</b>
			<i>A panel of middle grades and high school math teachers will reflect on their early experiences in the classroom. Come find out how they connect theory to practice.</i>

<b>1566</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Kelli M Slaten
		<b>Color Me Euclid</b>	
		<i>In 1847 an unknown mathematician, Oliver Byrne, published an edition of Euclid's "The Elements" which illustrated geometric proofs using colored visual representations. These color-coded proofs allow students to use their spatial visualization skills to connect concrete representations to abstract geometric concepts and develop their understanding of proof.</i>	
<b>1570</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Melody A McGarrahan
		<b>Always B#, Never B Flat: Ways to Use Music to Help Teach Math</b>	
		<i>This high energy presentation will share with teachers some ways to utilize music, dance and chants in order to help students better understand and retain important mathematical concepts such as patterns, time, addition, subtraction, fact families, geometry terminology and more.</i>	
<b>1574</b> Session	Fri	10:30 AM - 12:00 PM	<b>Speaker:</b> Robyn M Varga
		<b>Making the Most of K-2 Math Centers</b>	
		<i>Participants will learn how to set up and manage math stations using the five math goals from the NC Standard Course of Study. Participants will learn how to differentiate instruction within each center.</i>	
<b>1578</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Lisa H Mackey
		<b>Data Driven Instruction: Identify, Individualize and Integrate</b>	
		<i>A practical look at the effective use of data resulting from common assessments to create targeted remediation and enrichment groups for math objectives and skills.</i>	
<b>1582</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Krystal L Ramirez
		<b>Making the Most of Math!</b>	
		<i>Learn how to empower students to become mathematical problem solvers while working in cooperative groups during math centers. Ways to differentiate for all levels of students will be shared. We will also discuss ways to keep anecdotal records and grades when doing math centers.</i>	
<b>1586</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> JoanElizabeth Gilbert
		<b>Introductory Exploration</b>	
		<i>Did you ever wonder? Well, our students do! Reach even your most difficult and stubborn students with exploration. Instead of giving the students facts outright, let them discover it! This presentation will cover introductory activities for exploration for most topics covered for grades 6-8 aligned to the North Carolina Standard Course of Study.</i>	
<b>1590</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Mary Russell
		<b>DPI Update, Grades 6-8</b>	
		<i>What's new for grades 6-8 from DPI? How will the Common Core affect middle grades teachers and students? Find out in this session.</i>	
<b>1594</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Davie Store
		<b>Improving Students' Performance Through Effective Assessment Practices</b>	
		<i>Assessment strategies that help shed light into students' strengths and weaknesses will be discussed. Additionally, participants will get samples of tasks that can be used to assess and enhance students' understanding of selected topics.</i>	
<b>1598</b> Session	Fri	10:30 AM - 12:00 PM	<b>Speaker:</b> Gina Allred
		<b>Calculator Basics and the New OS for the TI-84</b>	
		<i>There is a new operating system for the TI-84. It's OS 2.53MP - math print. Finally the calculator can look like the problems in the same style. Come see the basics.</i>	
<b>1602</b> Session	Fri	10:30 AM - 11:15 AM	<b>Speaker:</b> Karen F Hollebrands
		<b>Activities to promote reasoning and sense making in the high school mathematics classroom</b>	
		<i>This session will highlight different activities, hands-on and technological, that can be implemented in the high school mathematics classroom to promote student reasoning and sense-making</i>	

<b>1606</b> Session	Fri	10:30 AM - 11:15 AM <b>DPI Update, Grades 9-12</b> <i>What's new for grades 9-12 from DPI? How will the Common Core affect secondary teachers and students? Find out in this session.</i>	<b>Speaker:</b> Johannah Maynor
<b>1610</b> Session	Fri	10:30 AM - 12:00 PM <b>Humorous Algebra - The Core of Learning</b> <i>Kooky quotes, zany approaches, project ideas, hands-on activities, and curriculum integration techniques to strengthen math concepts, skills, and fun in the ALGEBRA classroom. Handouts provided.</i>	<b>Speaker:</b> June L Blackwell
<b>1614</b> Session	Fri	10:30 AM - 12:00 PM <b>Use a Computer as Teacher?</b> <i>Using the computer to enhance and aid teaching. Accessing websites, using examview as a computerized test taking tool like classcape with data analysis, developing powerpoints of lessons to post on class website for students to access from home, etc.</i>	<b>Speaker:</b> Carolyn R Carter
<b>1618</b> Session	Fri	10:30 AM - 11:15 AM <b>Calculus In Motion</b> <i>Whether teaching calculus at the introductory or AP level, at a high school or college, this presentation will focus on using Calculus In Motion™ Geometer Sketchpad animations to demonstrate Calculus concepts.</i>	<b>Speaker:</b> Lara K Dick
<b>1622</b> Session	Fri	11:30 AM - 12:15 PM <b>Mini-Assessments for Diagnostic Assessment</b> <i>Formative assessment is a great process in assessment for learning. Applying formative assessment with solid diagnostic mini-assessments can help students become great problem solvers.</i>	<b>Speaker:</b> Michael P Gallagher
<b>1626</b> Session	Fri	11:30 AM - 1:00 PM <b>Learn more about the Presidential Awards</b> <i>The Presidential Awards for Excellence in Mathematics Teaching is the highest recognition that a kindergarten through 12th grade mathematics teacher may receive for outstanding teaching in the United States. Come meet some past winners and learn how you can be our next North Carolina Awardee, receive \$10,000 and a free weeklong recognition trip to Washington, DC!</i>	<b>Speaker:</b> Kitty Rutherford
<b>1630</b> Session	Fri	11:30 AM - 12:15 PM <b>Guided Math</b> <i>It is possible to grow both your struggling and gifted students. Small group instruction focuses on the needs of students and their individual levels. Differentiating math instruction through the use of centers and guided math ensures success for all learners.</i>	<b>Speaker:</b> Donna J. Roberts
<b>1634</b> Session	Fri	11:30 AM - 12:15 PM <b>The Math Learning Environment</b> <i>Are you making the most of your Math Time? Participants will explore additional ways to create a math-rich environment. Tips for scheduling and management will be provided</i>	<b>Speaker:</b> Amy Scrinzi
<b>1638</b> Session	Fri	11:30 AM - 12:15 PM <b>Algebra and Problem Solving in 3-5</b> <i>Come and examine tasks and activities to develop students' algebraic reasoning and problem solving skills.</i>	<b>Speaker:</b> Amy Lehew
<b>1642</b> Session	Fri	11:30 AM - 12:15 PM <b>Using Multimedia Tools to Enhance 3-5 Data Collection</b> <i>Tired of counting M&amp;Ms? This session will explore uses of digital pictures, video, and internet resources that permit students to pose and investigate meaningful questions.</i>	<b>Speaker:</b> Gemma F Mojica

<b>1646</b> Session	Fri	11:30 AM - 12:15 PM	<b>Speaker:</b> Judy H Snow
		<b>Parent Involvement: The Missing Piece for Greater Math Success</b> <i>Our Parents are a very valuable resource if we know how to get them involved! Empower your parents through an effective Parent Math Night using an innovative resource book that connects them to the curriculum. This session is also offered Thursday at 1:30 in Imperial E.</i>	
<b>1650</b> Session	Fri	11:30 AM - 12:15 PM	<b>Speaker:</b> Mark E Jankowski
		<b>The Coleman Chase</b> <i>Students use GPS units, calculators, computers, compasses, digital cameras, etc to solve ciphers and various other puzzles to find the missing pieces of Coleman. This activity is a combination of DaVinci Code, Survivor, and Amazing Race.</i>	
<b>1654</b> Session	Fri	11:30 AM - 12:15 PM	<b>Speaker:</b> Dawn W Jenkins
		<b>Making Connections through Literature</b> <i>Help students make sense of mathematics by making connections to literature and the real world. Students will enjoy solving meaningful problems that they can relate to and understand. Lessons from fiction and non-fiction books will be shared.</i>	
<b>1658</b> Session	Fri	11:30 AM - 12:15 PM	<b>Speaker:</b> Karen S Norwood
		<b>Using Higher Level Tasks to Assess Students Conceptual Understanding</b> <i>Preservice teachers will present higher level tasks for engaging students in the mathematics classroom. The tasks are designed to assess students conceptual understanding of various topics in middle school mathematics. Handouts will be available.</i>	
<b>1662</b> Session	Fri	11:30 AM - 1:00 PM	<b>Speaker:</b> Rachel S Lawrence
		<b>Using Web 2.0 tools to engage students</b> <i>A rundown of a few of the many Web 2.0 tools that can be used to create an interactive classroom and ideas for how to start using them in your own classroom TODAY!</i>	
<b>1666</b> Session	Fri	11:30 AM - 12:15 PM	<b>Speaker:</b> Dorothy Sulock
		<b>Reality Math</b> <i>Self-contained units embedding mathematics within socially responsible, financial literacy, or general interest contexts, customizable for all levels of students from middle school to college.</i>	
<b>1670</b> Session	Fri	11:30 AM - 12:15 PM	<b>Speaker:</b> Tamar Avineri
		<b>Graphs for the "Every Day"</b> <i>In this session, we will discuss applications of graph theory designed for Discrete Mathematics courses. These applications will include those in project management, scheduling and travel.</i>	
<b>1674</b> Session	fri	11:30 AM - 12:15 PM	<b>Speaker:</b> Jane W Dennerlein
		<b>Integrated Mathematics in the secondary classroom</b> <i>This presentation will focus on investigative techniques and activities to teach math for understanding. Integrated 1 and 2, Core-Plus texts from the NC state adoption list will be featured.</i>	
<b>1678</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Sandy Berger
		<b>Connecting All the Pieces: Common Core State Standards, AFM, and College Readiness</b> <i>In this interactive session we will explore how inquiry-based investigations support the implementation of the Common Core State Standards and develop the algebraic thinking that ensures all learners are college ready.</i>	
<b>1682</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Meghan Hearn
		<b>Leaders of Mathematics Education: How can NCSM help you?</b> <i>Presenters will review National Council of Supervisors of Mathematics' framework for leadership standards and discuss how NCSM can help you become a leader in mathematics.</i>	

<b>1686</b> Session	Fri	12:30 PM - 2:00 AM	<b>Speaker:</b> Greg Tang
		<b>The Art of Smart</b> <i>What's the goal, to make kids great in computations or great in problem-solving? Neither - the goal is to make them smart! Join us as we explore a new teaching paradigm that develops algebraic thinking skills in even the youngest students. See how a few critical changes in your teaching practice can produce better math students and smarter kids.</i>	
<b>1690</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Ellen Hilgoe
		<b>NC Early Mathematics Placement Testing Program</b> <i>Come hear about the NC Early Mathematics Assessment Program.</i>	
<b>1694</b> Session	Fri	12:30 PM - 1:15 AM	<b>Speaker:</b> Catherine M Scott
		<b>Integrating Science into Mathematics Using Patterns in Nature: BioMusic</b> <i>Early elementary teachers will discuss how to use the skill of aural observation to recognize patterns heard in animal calls and to create a visual representation of these patterns. Lessons tested in GCS and WCPSS will be shared, along with student work.</i>	
<b>1698</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Tammy VanCleaf
		<b>Developing Number Sense in K-1</b> <i>Participants will learn how to deepen children's understanding of number sense Kindergarten and First Grade with activities and assessments from various resources, including Kathy Richardson.</i>	
<b>1702</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Susie G. Miller
		<b>MESSENGER to Mercury a Planet of Extremes</b> <i>Planetary science modules are integrated with literature and mathematics to help students better understand space science. Each participant will receive handouts, posters, and lessons ready to use in your classroom. Learn how to use data from the MESSENGER program to enhance your science/math lessons.</i>	
<b>1706</b> Session	Fri	12:30 PM - 2:00 PM	<b>Speaker:</b> Amy B Nichols
		<b>Cutting Edge Manipulatives</b> <i>We will explore the newest manipulatives on the market today and maybe get a peek into a few to come.</i>	
<b>1710</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Mary F Davis
		<b>Why should I excuse my dear Aunt Sally?: Focusing on misconceptions in the math classroom</b> <i>All children know math! Don't laugh! The problem is the validity of what they have learned. Too often children are taught ways to remember things without the conceptual understanding necessary to use them. Come find out ways to revise misconceptions and move forward in any math class!!</i>	
<b>1714</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Ryan M Dougherty
		<b>10 Minute Activities for Grades 3, 4 and 5</b> <i>Participate in quick 10 minute activities that can be used in the classroom to reinforce concepts in all five strands of Mathematics.</i>	
<b>1718</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Misti McDaniel
		<b>Graphin Calculator Tools</b> <i>As graphing calculators become prevalent in middle schools, teachers find themselves wondering—"How can I use this to support instruction?" Learn tips on using the new TI-84 operating system, apps and other tools that can be used to support student success on the EOG.</i>	
<b>1722</b> Session	Fri	12:30 PM - 2:00 PM	<b>Speaker:</b> Gina Allred
		<b>TI MathForward - what's it all about?</b> <i>TI MathForward is a research based program to help schools close the achievement gap and help students become algebra ready in middle school. Come see what it's all about!</i>	

<b>1726</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Larry Dorf
		<b>Going Deeper in the Middle School Classroom</b> <i>Learn methods for teaching middle school math in a focused and in-depth manner. Stimulating questioning and engaging activities create a classroom alive with enthusiasm for learning! Participants leave this workshop with easy-to-use activities that they can use immediately.</i>	
<b>1730</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Amy Maxey
		<b>Cabri 3-D in Your Classroom</b> <i>Cabri 3-D is a dynamic software that enhances student learning and class discussion. We will share tips for implementing Cabri 3-D in the high school classroom.</i>	
<b>1734</b> Session	Fri	12:30 PM - 1:15 AM	<b>Speaker:</b> Katrina M Palmer
		<b>Actuarial Activities</b> <i>This talk will demonstrate two activities; one at an 8-9th grade level and one at a 10-11th grade level. Each activity shows what an actuary may think about &amp; some of the mathematics used.</i>	
<b>1738</b> Session	Fri	12:30 PM - 1:15 AM	<b>Speaker:</b> Alan Russell
		<b>Bezier curves have great Connections</b> <i>If you like mathematics that will reinvigorate the inner mathematician and be useful in your classroom, then look no further. Bezier curves are an accessible part of college mathematics that we can share with high school students. Connections between Geometry and Algebra come to life as students investigate these curves and their application to drawing.</i>	
<b>1742</b> Session	fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Jeniffer A Wooten
		<b>A Different Look at Pre Calculus</b> <i>This presentation will show Pre Cal as a set of universal themes that are demonstrated throughout the standard course of study. I will demonstrate some activities that I use, and strategies that have worked for me in classroom.</i>	
<b>1746</b> Session	Fri	12:30 PM - 1:15 PM	<b>Speaker:</b> Robert Butler
		<b>Using Teachnology to Teach AP Statistics</b> <i>This presentation is designed to help beginner teachers in statistics understand the application of using teachnology to teach statistics using methods like T-navigator, E-View, and the like.</i>	
<b>1750</b> Session	Fri	1:30 PM - 2:15 PM	<b>Speaker:</b> Mary Joyce Plott
		<b>WoW: It's Math!</b> <i>World of Warcraft is one of the largest online role playing games currently on the market. With many students playing these games which abound with mathematics, let's take a look at how to bring these ideas into the classroom.</i>	
<b>1752</b> Session	Fri	1:30 PM - 2:15 PM	<b>Speaker:</b> Drew Polly
		<b>Unpacking Algebraic Thinking and Problem Solving in Grades K-2</b> <i>Come and examine tasks and activities to develop students' algebraic reasoning and problem solving skills.</i>	
<b>1754</b> Session	Fri	1:30 PM - 2:15 PM	<b>Speaker:</b> Dawne E Coker
		<b>Raising Reasoning in Mathematics</b> <i>This session will focus on building the critical thinking skills that are necessary for mathematical reasoning and understanding. Participants will learn strategies to promote these essential skills and receive extensive, ready-to-use activities for the K-5 classroom.</i>	
<b>1756</b> Session	Fri	1:30 PM - 2:15 PM	<b>Speaker:</b> Shirley Disseler
		<b>Organizing Students for Mathematics Learning</b> <i>Participants will learn strategies for organizing classrooms and students to maximize their students' learning.</i>	

- 1758**      fri      1:30 PM - 2:15 PM      **Speaker:** Julie S Riggins  
Session      **Cool Demonstration Activities with the TI Nspire Software**  
*Most students and classes do not have the TI-Nspire handhelds yet, but don't let that stop you from using this powerful technology to engage and teach your students. I will share activities ranging from parallel and perpendicular lines, to rotations and circumcenter, to derivatives and integrals.*
- 1760**      Fri      1:30 PM - 4:30 PM      **Speaker:** William E Fulton  
Session      **Graphing Parmetric Functions**  
*Using the Casio to Graph Parmetric Functions: This presentation utilizes the Casio to graph real world and not so real world parametric functions*
- 1764**      Fri      2:00 PM - 2:45:00 PM      **Speaker:** Laura A Behm  
Session      **Problem Solving Strategies - Comprehending the Problems**  
*Students can usually master the skills involved in computation problems, by using the typical algorithms, but often have difficulty comprehending problem solving situations. This workshop will demonstrate some activities to help students comprehend word problems.*