

Welcome to the 2015 KCM Conference!

Thank you for joining us as we learn from each other, formally and informally, while sharing our contagious passion and growing expertise for improving mathematics education.

The Kentucky Center for Mathematics is honored to facilitate communication among a statewide professional learning community focused on student-centered approaches to learning mathematics at every level from preschool to the university. Your role in supporting or providing high-quality mathematics education is critical for preparing a citizenry ready for interesting and rewarding experiences in college and career. Our conference theme, Engage!, was chosen to emphasize the importance of engaging students as we strive for mathematical understanding and conceptual skills. We believe that engaging, student-centered learning experiences are key to ensuring that students are able to think and communicate mathematically.

We are also honored to offer a rich and varied program of esteemed speakers from Kentucky and beyond, which assures every conference attendee will gain valuable knowledge, strategies, and tools. We will enjoy a Celebration Dinner on Monday evening as we connect and reflect on the progress of our outstanding community of mathematics educators and prepare to continue the momentum for greater success of Kentucky students in the coming year. On behalf of the KCM staff, we hope you enjoy your conference learning experience and we appreciate the opportunity to serve you.

Best,
Dr. Daniel McGee
KCM Executive Director

#KCMconference2015



Kentucky Center for Mathematics



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Kentucky Center for Mathematics

Having a great time? Received cool ideas from a conference session? Took a selfie with your friend standing in front of the breakfast buffet? Tell us about it!

Post your pictures and comment on your conference experience via Instagram, Facebook, Twitter, and LinkedIn! We want to hear all about it! Be sure to use our official conference hashtag when you do.

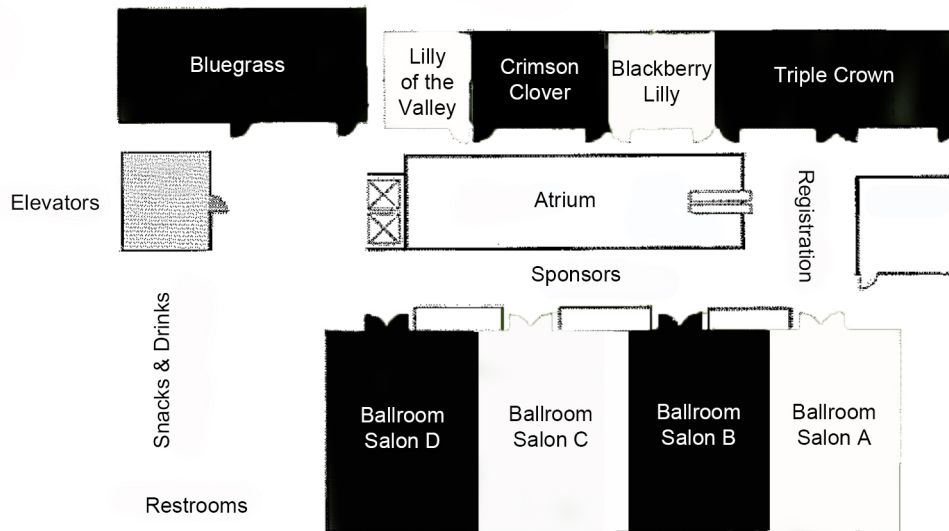
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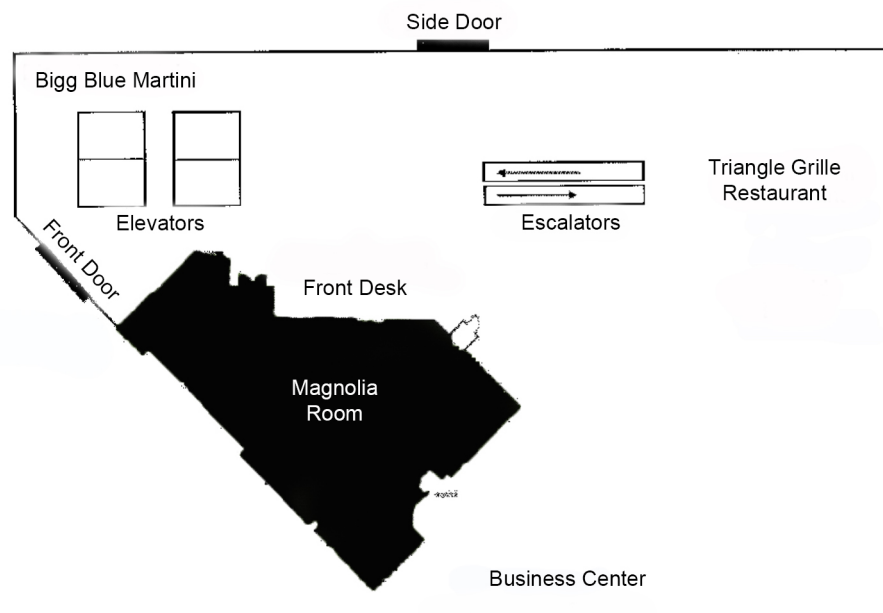
2015 KCM Conference Map



2nd Floor: Presentation Rooms



1st Floor: Magnolia Room & Restaurants



Door Prizes

We want to thank you for dedicating your time and talents to us at the 2015 KCM Conference! Thanks to our wonderful conference sponsors, we are excited to offer the door prizes listed below for our conference attendees!

How To Win:

Name tags of all present conference attendees will be collected before the last breakout session on Tuesday afternoon (3/10). Prize winners will be drawn from these name tags and will be announced immediately following the last breakout session via call board on the 2nd floor of The Hilton hotel, next to the registration table. Individuals must be present to win. Door prize winners will be required to fill out a tax form for their winnings.



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Conference Schedule at a Glance Monday Morning (3/9)

7:00am-8:00am		
	Conference Registration & Continental Breakfast	2nd Floor of Hilton

Session #1 8:00am-9:10am		
K-5	Family Math Night Showcase - Fox	Magnolia (1st Floor)
General	Panel Discussion: Implementation of the Common Core	Salon A & B
6-9	Newton's Revenge and UK's Basketball Players - Argabrite	Salon C
Pre-K	EEMC Engaging Early Childhood Learning Through Number "Sense" - Adams E	Salon D
6-12	Engaging Students by Sailing the C's: Curiosity, Critical Thinking & Communication - Wilson	Bluegrass
General	Believing is Seeing - Allen	Crimson Clover
K-3	The Value of Place Value: Engaging Students in Addition and Subtraction Using Place Value Strategies - Lewis	Blackberry Lilly
1-4	Planning Instruction Around the Rekenrek Without Having a Wreck N Wreck - Miller	Triple Crown

Session #2 9:25am-10:35am		
K-3	Assessing Children's Sense Making Strategies - Kent ★	Magnolia (1st Floor)
9-16	Using Technology to Engage Students in Introductory Statistics Topics - Autin	Salon A
6-8	Thinking Strategies in the Middle School Classroom - Brittenham	Salon B
2-5	Understanding Numbers: Addition/Subtraction and Place Value Activities Created by Kathy Richardson - Jarboe	Salon C
PreK-3	Math and Science with Wiggly Worms - Malcolm E	Salon D
9-12	Flipped Classroom and Special Education Students - Creager	Bluegrass
9-12	Engage Your Students in Rich Problem Solving Tasks Correlating to the CCCS - Schiffman	Crimson Clover
General	Teaching Conceptually: Maximize Understanding and Engagement - Pilcher	Blackberry Lilly
5-8	Interweaving the Mathematical Practices into the Middle School Classroom - Miller	Triple Crown

Session #3 10:50am-12:00pm		
K-5	Organizing for Targeted Add+VantageMR Instruction - Olijnek	Magnolia (1st Floor)
3-8	Even MORE Serious Fun in Mathematics - Loucks	Salon A
General	Bloom into Math - Phelps	Salon B
6-8	Engaging Struggling Learners Using the Eight Mathematical Practices - Powers	Salon C
K-3	Two + 2 = Four Ways to Engage Student Mathematicians Through Writing - Townsend	Salon D
General	Students Doing Research: Developing Mathematical Practices Through Engagement with Famous Unsolved Problems in Math - Braun	Bluegrass
9-12	From Battleship to The Amazing Race: Engaging Students to Learn - Stevens	Crimson Clover
Pre-K	CAUTION!! KIDS AT WORK - Using Tools to Problem Solve - Howard E	Triple Crown



Conference Schedule at a Glance Monday Afternoon (3/9)

Lunch	12:00pm-1:15pm	
	Visit The Hilton's Triangle Grille or enjoy an abundance of local restaurant options.	

Session #4	1:15pm-2:25pm	
Pre-K	Preschool Math and the Common Core - McCray E ★	Magnolia (1st Floor)
General	Engaging Students (and Teachers!) in Learning Mathematics Using the TPACK Framework - Crowe	Salon A
6-8	Teaching the Teacher: How Student Led Learning Can Help Achieve Mastery - Thomas	Salon B
K-5	Boosting Engagement in the Elementary Classroom - Humphries & New	Salon C
K-5	Twisted Math - Dicken	Salon D
K-3	Using Manipulatives for Addition and Subtraction - Gagne	Bluegrass
6-12	Increasing Student Engagement and Assessing for Learning in a Technology-Rich Classroom - Casey	Crimson Clover
General	Why the Math Common Core State Standards are Not the Devil! - Heavin	Blackberry Lilly
K-5	Beyond Base Ten: A Sustainable Approach for Enhancing the Mathematical Development of Gifted/Talented Elementary Students - Thompson	Triple Crown

Session #5	2:40pm-3:50pm	
K-5	The HeART of Math - Owens	Magnolia (1st Floor)
K-3	Making Mathematics Connections - Adams	Bluegrass
9-16	Identifying Student Misconceptions and How to Alleviate Them in the Common Core Environment - Schiffman	Crimson Clover
6-12	Mathematics Applications in History - Mahoney	Blackberry Lilly
K-5	Equipped for the Core - Waggoner	Triple Crown

Session #6	4:05pm-5:15pm	
K-5	iPads, CCSS, and AVMR, Oh My! - Ruck ★	Magnolia (1st Floor)
9-12	Mathematical Modeling in Science - Welch	Bluegrass
6-8	March Madness Mayhem to Teach Probability - Conn	Crimson Clover
6-12	Flipping the Classroom-Innovative Strategies for Engagement of Students - Albanese	Blackberry Lilly
Pre-K	Measure Me! - Davis E	Triple Crown

Dinner	5:15pm	
	Join us for a "Celebration Dinner" in the Grand Kentucky Ballroom immediately following the last breakout session on Monday evening. This dinner is free of charge to all conference attendees and speakers! Ticket must be in hand. Tickets can be found with each individual's check-in information.	

Conference Schedule at a Glance Tuesday Morning (3/10)

7:00am-8:00am		
	Conference Registration & Continental Breakfast	2nd Floor of Hilton

Session #1 8:00am-9:10am		
General	Engaging Students with Special Outreach Programs - Yanik ★	Magnolia (1st Floor)
3-5	Multiplication: Tools and Strategies to Move Students from Concrete to Abstract Thinking - MaRTI Plus Jessamine Cohort	Salon A
K-3	Math Stories...Mystery Solved - Rush	Salon B
1-5	Great Minds Do NOT Think Alike When Problem-Solving - Breneman	Salon C
K-3	Keep It Balanced - Making Math Magic	Salon D
PreK-8	Personalizing the K-8 Math Experience: Increase Student Engagement and Achievement - Dubois	Bluegrass
6-12	Creative Integration of CCSS Math Practices, Quality Activities, Excellent Questioning, and Pertinent Technology - Reardon	Crimson Clover
K-5	Math Workshop: Increasing Student Engagement Through Differentiated Learning - Peterson	Blackberry Lilly
6-12	The Flipped Classroom: The Tale of the Tape - Hodgson	Triple Crown

Session #2 9:25am-10:35am		
6-12	How Engaging Puzzles Build Algebraic Habits of Mind - Kang ★	Magnolia (1st Floor)
3-5	Killing the Algorithm: Building Strategies Based on Place Value - MaRTI Plus Lexington Cohort	Salon A
K-5	Engaging Student Learning Through Small Group Instruction - Rowland	Salon B
K-3	Guided Math: Engaging All Students - Horn	Salon C
4-5	Computation with Meaning - Multiplication/Division - Making Math Magic	Salon D
Pre-K	Not So Strange Bedfellows: The Marriage of Mathematics and Literacy - Adams E	Bluegrass
4-9	Free Interactive Explorations and Activities to Assist Learning Fractions, Ratios, and Proportional Reasoning - Reardon	Crimson Clover
K-5	MR Leader and AVMR Champion Q&A - Olijnek	Blackberry Lilly
K-5	The Revolution of Technology in Teaching Structure - Silvestri	Triple Crown

Session #3 10:50am-12:00pm		
K-5	The Secret of Structures - Boulden	Magnolia (1st Floor)
1-4	Addition and Subtraction: Beyond the Standard Algorithm - MaRTI Plus Northern Kentucky Cohort	Salon A
K-6	High Levels of Engagement in the Intermediate Classroom - Hunt	Salon B
1-3	Helpful Homework: Getting Parents to Work With Instead of Against You - Harris	Salon C
6-12	Proportional Reasoning Across the Curriculum - Making Math Magic	Salon D
K-1	Engaging Students in Addition and Subtraction - Patterson	Bluegrass
4-9	Patterns in Nature - Welch	Crimson Clover
9-12	Bridging the Gap in Response to Intervention (RTI): The Honey Badger Intervention Lab, Accelerated Reading & Math - Cormier	Blackberry Lilly
3-5	Research and Practice in Multi-Digit Alternative Algorithms - Jong	Triple Crown



Conference Schedule at a Glance Tuesday Afternoon (3/10)

Lunch	12:00pm-1:15pm	
	Visit The Hilton's Triangle Grille or enjoy an abundance of local restaurant options.	

Session #4	1:15pm-2:25pm	
3-12	Building Powerful Numeracy - Weber-Harris ★	Magnolia (1st Floor)
3-5	Remove the Fear of Fractions - MaRTI Plus London Cohort	Salon A
K-3	Getting Started with Number Talks! - Humphrey	Salon B
General	Digging Deeper into Common Core Math Assessments - Bryant	Salon C
9-12	Math Games for High School - Making Math Magic	Salon D
K-5	Increasing Engagement Through Manipulatives, Part 1 - Smith	Bluegrass
K-5	Word Problems: From Theory to Strategies - Salameh	Crimson Clover
9-12	Liar's Bingo Revisited: Look for Patterns and You Won't Have to Remember Your Lies - Sheats Harkness	Blackberry Lilly
6-8	Building Algebraic Reasoning from the Ground Up by Using CRA - Miller	Triple Crown

	2:25pm-2:40pm	
	KCM Staff will collect name badges of conference attendees for door prize drawing.	

Session #5	2:40pm-3:50pm	
K-5	Math Camp-In - Gross	Magnolia (1st Floor)
3-5	Multiplication - It's a Game! - MaRTI Plus Owensboro Cohort	Salon A
K-5	Formative Assessments - Guiding Student Instruction - Gissing	Salon B
K-5	Implementing Math Workshop in the Elementary Classroom - Rhodes	Salon C
4-6	Computation with Fractions - Making Math Magic	Salon D
6-12	Increasing Engagement Through Manipulatives, Part 2 - Truitt	Bluegrass
General	Leading from the Classroom - Farmer	Crimson Clover
General	Engaging the Teacher in Practical PLC's (RIP Research into Practice) - Dietrich	Blackberry Lilly
9-12	'Pumpkin' Chunkin...Developing Conceptual Understanding of Quadratics - Martin Reynolds	Triple Crown

Door Prizes	4:00pm	
	Prize winners will be drawn from collected name tags and will be announced immediately following the last breakout session via a call board on the 2nd floor of The Hilton hotel, next to the registration table. Individuals must be present to win. Door prize winners will be required to fill out a tax form for their winnings.	

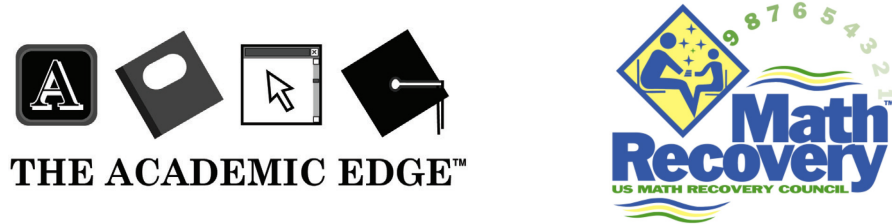
Conference Sponsors

The KCM is proud to introduce our 2015 conference sponsors!

THANK YOU to each organization and the wonderful people who worked so hard to help the KCM have a successful 2015 conference. Your presence, support and overall dedication to mathematics education plays a major role in our continued growth.

Please be sure to visit our exhibiting sponsors, located conveniently on the 2nd floor of The Hilton.

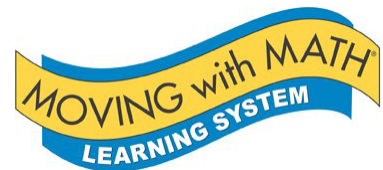
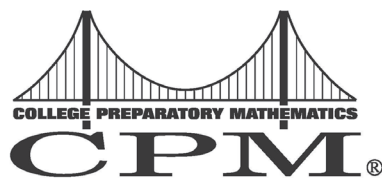
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Free KCM Resources

KCM is working hard to provide what teachers need – check out some of the resources we’ve made available just for you!

Kentucky Family Math

Launched in January 2015, KCM’s Family Math page connects our awesome classroom resources to families across the country!



knp.kentuckymathematics.org/family

KCM Pinterest Boards



Are you following the KCM’s Pinterest page yet? The KCM pins activities allowing you to easily like, share, and re-pin all your favorites!

Access through kymath.org or search for “Kentucky Center for Mathematics” on Pinterest.

Kentucky Numeracy Project Intervention Guide

Add some fun games and lesson plans to your teaching toolbox with help from the KCM Kentucky Numeracy Project Intervention Guide! Lesson plans, printables, and student instructions are conveniently provided for you in this user-friendly, online guide.

The Intervention Guide has multiple search types to fit the needs of your classroom, including:

- Standards
- Grade Level
- Fluency Benchmark
- Task Group
- AVMR Strand
- Setting

Register at:

http://knp.kentuckymathematics.org/#!/page_knphome



Be sure to check out the KDE webinars on mathematics curriculum and teaching!

<http://mediaportal.education.ky.gov/curriculum-and-teaching/math-curriculum-and-teaching/>

Math Tools

The KCM has an extensive collection of math tools which are easily integrated into any lesson.



http://kentuckymathematics.org/math_tools.php

Social Media

Facebook, Twitter, and Instagram are a great way to keep up-to-date with KCM events, trainings, and new resources.



Search for “Kentucky Center for Mathematics” and/or @KyCenterforMath



Featured Speakers



Jane M. Kang

Education Development Center (EDC)

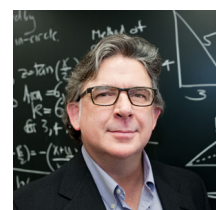
Jane M. Kang is a co-author of *Transition to Algebra*, developed at Education Development Center (EDC), funded by the National Science Foundation (NSF) and published by Heinemann. This innovative resource focuses student learning on key algebraic habits of mind. She is a member of *Assessing Secondary Teachers' Algebraic Habits of Mind*, an NSF-funded research project that includes developing an assessment to measure how teachers use mathematical habits of mind, as well as collecting classroom observation data to determine how teachers bring these habits to their teaching practice. She is also a part of a team creating mobile apps that help students build logic through mathematical puzzles (solve.me.edc.org). Before joining EDC, Jane taught mathematics for seven years at Charlestown High School in the Boston Public Schools. She has advanced degrees in international education policy and mathematics for teaching from Harvard University.



Laura B. Kent

University of Arkansas

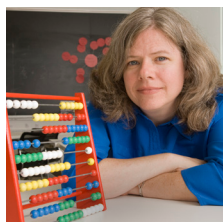
Laura B. Kent is an Associate Professor of mathematics education at the University of Arkansas. As a former middle school mathematics teacher and graduate student at the University of Wisconsin, Laura collaborated with the Cognitively Guided Instruction (CGI) research and development team and has facilitated CGI workshops throughout the nation. She currently works with other researchers to extend elements of CGI professional development for upper elementary and middle school teachers focused on rational number concepts.



William G. McCallum

University of Arizona

William G. McCallum is a University Distinguished Professor of Mathematics at the University of Arizona. Born in Sydney, Australia in 1956, he received his Ph.D. in Mathematics from Harvard University in 1984, under the supervision of Barry Mazur. After spending two years at the University of California, Berkeley, and one at the Mathematical Sciences Research Institute in Berkeley, he joined the faculty at the University of Arizona in 1987. In 1989 he joined the Harvard calculus consortium, and is the lead author of the consortium's multivariable calculus and college algebra texts. In 1993-94 he spent a year at the Institut des Hautes Etudes Scientifiques, and in 1995-96 he spent a year at the Institute for Advanced Study on a Centennial Fellowship from the American Mathematical Society. In 2005 he received the Director's Award for Distinguished Teaching Scholars from the National Science Foundation. In 2006 he founded the Institute for Mathematics and Education at the University of Arizona, and is currently its director. In 2009-2010 he was one of the lead writers for the Common Core State Standards in Mathematics. His professional interests include arithmetical algebraic geometry and mathematics education. He has received grants and written articles, essays, and books in both areas.



Jennifer McCray

Erikson Institute

Jennifer McCray is an Assistant Research Scientist at the Erikson Institute in Chicago where she serves as Director of the Early Math Collaborative. She began her career as a preschool teacher, and completed her graduate work at Erikson Institute, the nation's leading graduate school in child development. As part of her dissertation, she developed the PM-PCK, an interview that assesses teacher knowledge for teaching preschool mathematics. She received two national awards for this work, and the PM-PCK interview has recently been adopted as an evaluation measure for a large efficacy trial of a STEM-focused preschool curriculum, funded by the Institute for Education Sciences. As director of the Early Math Collaborative, she has helped grow it from a single professional development project serving a small group of preschool and kindergarten teachers to a group of over 20 adult educators and researchers working with hundreds of teachers throughout the U.S. to improve math instruction for young children. The Collaborative maintains a robust and systematic website, developing and curating video and written materials for teachers of young children, and its first book, *The Big Ideas of Early Mathematics: What Teachers of Young Children Need to Know*, is just out from Pearson Publishing.



Featured Speakers



Julie Ruck

Oshkosh School District, Wisconsin

Julie Ruck is a Math Coach and Interventionist, Professional Developer, and Technology Coach for the Oshkosh School District. In addition, she teaches math courses at the University of Wisconsin - Oshkosh, including a series of 8 courses leading to certification as a math interventionist, and math methods courses for K-8 pre-service teachers. Julie is a Math Recovery Specialists, and AVMR Champion, and has presented and conducted workshops for both technology and math conferences throughout the United States.



Pamela Weber-Harris

The University of Texas

Pamela Weber-Harris is the author of *Building Powerful Numeracy for Middle and High School Students* and *Lessons & Activities for Building Powerful Numeracy*. A former secondary mathematics teacher, Pam currently teaches at The University of Texas, is a K-12 mathematics education consultant, a T³ (Teachers Teaching with Technology) Instructor, and an author of several teacher professional development courses, including the new Focus on Algebra series. Pam presents frequently at local and national conferences. Her particular interests include numeracy, technology, assessment, and vertical connectivity in curricula in schools K-12.



Elizabeth (Betsy) Greenwell Yanik

Emporia State University

Elizabeth (Betsy) Greenwell Yanik was born and raised in Huntington, West Virginia. She graduated from Marshall University with a B.S., double majoring in mathematics and physics. She received her Master's and Ph.D. degrees in mathematics from the University of Kentucky. She has served on the faculty of Louisiana State University and Virginia Commonwealth University and since 1990 at Emporia State University where she is a Roe R Cross Distinguished Professor. She has been awarded the Mary Headrick award and the Ruth Schillinger award for her work on behalf of young women in the Emporia community. Dr. Yanik's interests include educational reform efforts in mathematics, outreach programs to encourage young people especially those from underrepresented populations to continue to study mathematics, and in interdisciplinary work connecting math with biology and physics. She has served on the Board of Governors of the Mathematical Association of America. She is a past president of the Women and Mathematics Education Association and is currently a member of their advisory board. In 2004 she received the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. She currently serves as the National Director of the Women and Mathematics Network and is co-director of five STEM outreach programs at Emporia State.

Conference Session Details

Session #1

Monday at 8:00am-9:10am

Family Math Night Showcase (K-5)

Panelists: Tonya Fox (Owsley County Elem.), Angela Miller (Sand Gap Elem.), Suzanne Bevins (Southside Elem.), Dianna Hollen (Goose Rock Elem.), Priscilla Clay (Cumberland Elem.), Kim Smith (Stinnett Elem.), & Tami Estep (Jenkins Indep.)

Room: Magnolia

Description: Are you looking for some creative ideas to engage your students and their families in Family Math Nights? If so, come join our showcase! You will be involved in games, activities, and discussions with experienced MITs. You will leave with many ideas for your Family Math Night!

Panel Discussion: Important Considerations for Implementing the Kentucky Core Academic Standards for Mathematics (General) ★

Panelists: William McCallum (The University of Arizona), Alice Gabbard (KCM), Robin Hill (KDE), Jonathan Thomas (KCM/Northern Kentucky University)

Moderator: Dan McGee (KCM)

Room: Salon A & B

Description: Hear from and converse with panel members about the goals, challenges, and opportunities related to implementing the Kentucky Core Academic Standards for Mathematics. Panel members will respond to questions from the audience as well as questions provided in advance from teachers and other mathematics stakeholders in Kentucky.

Newton's Revenge and UK's Basketball Players (6-9)

Presented By: Pamela Argabrite

Room: Salon C

Description: Kids love roller coasters and for many, basketball as well. In Newton's Revenge, students are actively engaged in modeling linear data centered on a roller coaster ride and determine whether the ride is safe for all riders, even those who are very tall.

EEMC Engaging Early Childhood learning through Number 'Sense' (Pre-K) E

Presented By: Selisa Adams (KCM) & Beth Meiman (KCM)

Room: Salon D

Description: The Erikson Early Childhood Collaborative (EEMC) in Kentucky, features content from the Erikson Institute's Early Math Collaborative and is facilitated by trained KY Center for Mathematics (KCM) leaders. These eight, half-day sessions for preschool/kindergarten teachers bring out interactive mathematics lessons to empower educators of young children. Join us for a preview of this outstanding professional learning experience!

Engaging Students by Sailing the C's: Curiosity, Critical Thinking & Communication (6-12)

Presented By: Pam Wilson (Russell County High School)

Room: Bluegrass

Description: Do your students struggle with regrouping? If they do, this session is for you! Many students struggle with regrouping, but do they have to do the problems that way? We don't think so! Come to find different strategies to ease the stress of regrouping for both the student and the teacher in a life without regrouping!

Believing is Seeing (General)

Presented By: Debra Allen (Gallatin County Elementary)

Room: Crimson Clover

Description: A supportive environment can raise mathematical students' self-efficacy, increase participatory behaviors, and build academic achievement. This presentation provides practical and research-based ways to create such an environment, while moving teachers toward Exemplary in PGES Domains 2 and 3.



The Value of Place Value: Engaging Students in Addition and Subtraction Using Place Value Strategies (K-3)
Presented By: Rachel Lewis (West Louisville Elementary) & Mary Helen Hodges (KCM)
Room: Blackberry Lilly
Description: Participants will explore the use of place value strategies for addition and subtraction up to 100 and 1,000. Following the Common Core, we will discuss meaningful learning with the use of various hands-on materials. Join us as we discover effective tools to promote conceptual understanding and create make-and-take manipulatives.

Planning Instruction around the Rekenrek without having a Wreck N Wreck (1-4)
Presented By: Christina Miller (US Math Recovery)
Room: Triple Crown
Description: The twenty-bead rack is a fantastic tool for supporting children's development of non-count-by-ones strategies for addition and subtraction. This session provides an opportunity to think about how to organize instruction around the bead rack and how to use it in the classroom during whole group and small group instruction.

Conference Session Details

Session #2

Monday at 9:25am-10:35am

Assessing Children's Sense Making Strategies (K-3) ★
Presented By: Laura B. Kent (University of Arkansas)
Room: Magnolia (1st Floor)
Description: This session will highlight the problem types and sense making strategies at the core of the professional development program Cognitively Guided Instruction (CGI). Participants will learn about the distinctions among whole number word problems and how young children initially make sense of these differences. Activities will include problem solving and analysis of young children's strategies.

Using Technology to Engage Students in Introductory Statistics Topics (9-16)
Presented By: Melanie Autin (Western KY University) & Hope Marchionda (Western KY University)
Room: Salon A
Description: Sampling Distributions and the Central Limit Theorem were taught differently in two sections of introductory statistics. In one, students watched the professor use an applet during lecture; whereas in the other, students actively used the applet in the computer lab. Results will be shared and discussed.

Thinking Strategies in the Middle School Classroom (6-8)
Presented By: Sheri Brittenham (Warren County Public Schools)
Room: Salon B
Description: Learn about thinking strategies used by successful math thinkers and how to share them with your students. Leave with lessons in-hand, ready-to-teach, and with ideas for using thinking strategies in your own lessons. Be prepared to fully engage in some great discussions and activities!

Understanding Numbers: Addition/Subtraction and Place Value Activities created by Kathy Richardson (2-5)
Presented By: Kris Jarboe (KCM) & Linda Montgomery (KCM)
Room: Salon C
Description: Participants will rotate through several centers to experience activities created by Kathy Richardson. The addition/subtraction centers will help them to think of numbers in terms of their underlying structures. The place value centers will require participants to recognize equivalent values of groups of 100s, 10s and 1s.

Math and Science with Wiggly Worms (PreK-3) E
Presented By: Chad Malcolm (Baldwin Wallace University)
Room: Salon D
Description: My workshop will consist of a combination of hands on experiences that will involve observation, exploration, discovery, and communication with others. I will be stressing the use of the scientific process with young children to promote critical thinking. Current standards for math, science, and language arts will be addressed.



Conference Session Details

Session #2 Continued

Monday at 9:25am-10:35am

Flipped Classroom and Special Education Students (9-12)

Presented By: Joe Creager (Carroll County High School)

Room: Bluegrass

Description: This presentation will focus mainly on the tools and strategies used by me and my collaborating teacher to engage very low level Freshman and Juniors in an Algebra and Algebra II setting. Topics discussed will include flipped videos, small group collaboration, discourse, and use of manipulatives.

Engage Your Students in Rich Problem Solving Tasks Correlating to the CCCS (9-12)

Presented By: Jay Schiffman (Rowan University)

Room: Crimson Clover

Description: Good problem solving is paramount in our Common Core environment. This workshop will engage participants in rich problem tasks selected from algebra, geometry, number and operations, calculus and discrete mathematics. Participants working in small groups will reason, explore connections among disciplines with these rich tasks and apply appropriate tools strategically.

Teaching Conceptually: Maximize Understanding and Engagement (General)

Presented By: April Pilcher (KY State University)

Room: Blackberry Lilly

Description: This presentation will model conceptual teaching on three levels: Lesson, Discussion, and Presentation. The focus will be maximizing student understanding of basic concepts, then deepening their knowledge by making new discoveries and engaging classrooms in cooperative learning environments. Attendees will participate in three levels of engagement: lesson, discussion, and presentation.

Interweaving the Mathematical Practices into the Middle School Classroom (5-8)

Presented By: Jamie-Marie Miller (PIMSER)

Room: Triple Crown

Description: Are you struggling with how to implement the Mathematical Practices into your classroom? Participants in this session will leave with engaging strategies and activities that can allow you to interweave the Math Practices in your classroom.

Conference Session Details

Session #3

Monday at 10:50am-12:00pm

Organizing for Targeted Add+VantageMR Instruction (K-5)

Presented By: Carolyn Olijnek (US Math Recovery Council)

Room: Magnolia

Description: Working from a class profile, participants are encouraged to bring their 'Purple' or 'Red' books as we explore how to organize students, materials, and activities for more targeted instruction. Tips for organization will be both generated and provided. Teamwork is a plus!

Even MORE Serious Fun in Mathematics (3-8)

Presented By: Kim Loucks (Teaching & Learning Connected) & Carolyn Hirst-Loucks (Teaching & Learning Connected)

Room: Salon A

Description: Working on the premise that you can NEVER get enough of a good thing, please join us for Part 3 of Serious Fun in Mathematics! Whether this is your first, second or third time with us, learning will be new and STILL loads of fun! You, too, will have fun!



Conference Session Details

Session #3 Continued

Monday at 10:50am-12:00pm

Bloom into Math (General)

Presented By: Bill Phelps (Somerset Community College)

Room: Salon B

Description: Using Bloom's Taxonomy in class and one-on-one to promote student engagement with math. Questions that go beyond the knowledge and comprehension levels can foster engagement. Through a small group activity, attendees will practice using questioning strategies that foster higher order thinking about math problems.

Engaging Struggling Learners Using the Eight Mathematical Practices (6-8)

Presented By: L. Brooke Powers (Beaumont Middle School) & Joe Payne (Beaumont Middle School)

Room: Salon C

Description: Experience ways to truly engage struggling learners in your classroom utilizing the 8 Mathematical Practices. Participants will leave with ready to implement activities and strategies to use in the classroom immediately from practicing middle school teachers. Our classroom is alive with excitement about numbers and yours can be too!

Two + 2 = Four Ways to Engage Student Mathematicians Through Writing (K-3)

Presented By: Cindy Townsend (Fayette County Public Schools) & Amanda Boyd Collier (EKU Model Lab)

Room: Salon D

Description: In this session, we will explore writing in math instruction to highlight Mathematical Practice #3 construct viable arguments and critique the reasoning of others. Participants will leave with a working knowledge of four types of writing that can be differentiated to engage and accelerate ALL students.

Students Doing Research: Developing Mathematical Practices Through Engagement With Famous Unsolved Problems in Math (General)

Presented By: Benjamin Braun (University of Kentucky)

Room: Bluegrass

Description: This session will provide teachers with examples of famous unsolved problems in mathematics that are accessible to students in grades 3-12 and at the post-secondary level. Engaging with unsolved problems can help develop rich student mathematical practices.

From Battleship to The Amazing Race: Engaging Students to Learn (9-12)

Presented By: Joanna Stevens (Lincoln County High School) & Jeffrey "McClee" Manion (Lincoln County High School)

Room: Crimson Clover

Description: Looking for ideas to spark student engagement? This workshop will introduce you to several classroom tested activities that can be modified for any math content area from introducing a concept to reviewing for a test.

CAUTION!! KIDS AT WORK -- Using Tools to Problem Solve (Pre-K) E

Presented By: Donna Howard (Whitesville Elementary)

Room: Triple Crown

Description: When children are given the opportunity to attempt to solve problems using different tools, they are not only fully engaged, but the magic of conceptual understanding begins. During this presentation, you will create different tools and explore the strategies in implementing a Problem of the Day in your classroom.

Conference Session Details

Session #4

Monday at 1:15pm-2:25pm

Preschool Math and the Common Core (Pre-K) ★ E

Presented By: Jennifer McCray (Erikson Institute)

Room: Magnolia (1st Floor)

Description: Although the Common Core State Standards for Mathematics begin at kindergarten, research is clear that children's preschool math achievement is an important indicator of later school success. What should preschool teachers be doing to give young children the best chance of being ready for and enjoying their kindergarten and later math experiences? This presentation will explore what the Standards suggest is important for math teaching and learning for 3- and 4-year olds, focusing on both content and practices. Through video analysis, discussion, and hands-on activity, participants will think deeply together about preschool as an important math education opportunity in the era of the Common Core.

Engaging Students (and Teachers!) in Learning Mathematics Using the TPACK Framework (General)

Presented By: Cheryll Crowe (Asbury University)

Room: Salon A

Description: The presentation will demonstrate how the integration of technology, pedagogy, and content knowledge (TPACK) can facilitate deep mathematical understanding. Participants will learn about the framework and engage in three math mini-lessons (elementary, middle, and HS) demonstrating TPACK. Attention will be given to integrating this framework in math teacher education programs.

Teaching the Teacher: How Student Led Learning Can Help Achieve Mastery (6-8)

Presented By: David Thomas (Jefferson County Public Schools)

Room: Salon B

Description: This presentation will focus on how to create engaging standards based lessons that are student led. Examples will be shown on how to scaffold lessons for students so that they are completely self-sufficient throughout each activity, allowing for the educator to provide remediation.

Boosting Engagement in the Elementary Classroom (K-5)

Presented By: Bonnie Humphries (Gallatin County Elementary Schools) & Amanda New (Gallatin County Lower Elem.)

Room: Salon C

Description: Come and participate in cooperative learning groups! You will move around the room to experience hands-on math activities that are based on Kagen structures and strategies for the K-5 classroom. The goal is to boost math engagement and student-to-student discourse. These are math commercials you don't want to miss!

Twisted Math (K-5)

Presented By: Melissa Dicken (Conkwright Elementary) & Amanda Pasley Terry (Shearer Elementary)

Room: Salon D

Description: Looking for some fun in your classroom? We will put a fun spin on structuring numbers! This session will look at the fluency standards for each grade level finding exciting ways to have our students become fluent. We will explore and play games to increase understanding! Come play twisted math!

Using Manipulatives for Addition and Subtraction (K-3)

Presented By: Mary Gagne (Foster Heights Elementary) & Mary Beth Barber (Oak Hill Elementary)

Room: Bluegrass

Description: We will demonstrate various methods for teaching addition and subtraction. We will use popsicle sticks, ten frames, story mats, empty number lines, bead racks and arrow cards. We will also present some games that can be used to reinforce these skills.

Increasing Student Engagement and Assessing for Learning in a Technology-Rich Classroom (6-12)

Presented By: Ruth Casey (T3 - Teachers Teaching with Technology)

Room: Crimson Clover

Description: How can the strategic use of technology increase student engagement and help make thinking more visible? Online resources and TI-Nspire Navigator will be used to demonstrate the use of real-time, immediate analysis of responses to encourage student engagement while providing them an opportunity to share and assess their own learning.



Why the Math Common Core State Standards are not the Devil! (General)

Presented By: Karen Heavin (KY State University) & Bret Cormier (KY State University)

Room: Blackberry Lilly

Description: This session will provide a brief history of the Common Core State Standards as well as explore reasons why educators should be excited about the core's focus on discovery learning and student engagement. This interactive session will also demonstrate the benefit of the core pedagogy over the traditional math pedagogy.

Beyond Base Ten: A Sustainable Approach for Enhancing the Mathematical Development of Gifted/Talented Elementary Students (K-5)

Presented By: Tonda Thompson (Albany Elementary) & Gina Poore (Clinton County Schools)

Room: Triple Crown

Description: The Beyond Base Ten project will enhance the mathematical development of gifted students in a meaningful and sustainable manner. The project has three main components: (1) direct services to students; (2) PD for teachers; and (3) Parent involvement.

Conference Session Details

Session #5

Monday at 2:40pm-3:50pm

The HeART of Math (K-5)

Presented By: JoLin Owens (Estill Springs Elementary)

Room: Magnolia (1st Floor)

Description: Engage your students in math by using their passion for art. Explore different activities that connect art and math. You will be able to take these activities back and implement them into your classroom immediately! (And you can count this towards Program Reviews!)

Making Mathematics Connections! (K-3)

Presented By: Selisa Adams (KCM), Toni Newton (Estill Springs Elem.), Kelly Livers (Daniel Boone Elem. & White Hall Elem.), Cecilia Howe (South Irvine P/K Center), Mary Beth Barber (Oak Hill Elem.), & Becky Reister (Kirksville Elem.)

Room: Bluegrass

Description: This K-3 session will be a collaborative effort from experienced MITs across Eastern and Central KY. Presenters will engage their participants with ways to connect mathematics through literacy, technology, music, family activities, and manipulatives. Everyone will leave the session with ways to connect mathematics to everyday life.

Identifying Student Misconceptions and How To Alleviate Them in the Common Core Environment (9-16)

Presented By: Jay Schiffman (Rowan University)

Room: Crimson Clover

Description: Mathematics educators are aware of misconceptions like the "freshman dream" when squaring a binomial

$((a+b)^2 = a^2 + b^2)$, $2^3 \cdot 3^4 = 6^{12}$, $\frac{1}{2} + \frac{1}{4} = \frac{2}{6}$, $\frac{24}{48} = \frac{2}{8}$ or $\sin 2 \cdot x = 2 \cdot \sin x$ permeating at both the secondary and undergraduate levels to name just a few. This workshop will engage participants to alleviate such persistent difficulties via the use of manipulatives, technology and counter examples to strengthen conceptual understanding.

Mathematics - Applications in History (6-12)

Presented By: Ryan Mahoney (SkyTeach: Western KY University) & Ken Frix (Western KY University)

Room: Blackberry Lilly

Description: This presentation will communicate core ideas of integrating technology into mathematics. Session leaders will discuss various practical and realistic ways to integrate technology into mathematics. Demonstrating various technologies will help participants gain understanding how to apply technologies into their own classroom. Participants will then work within their own grade-groups to look at grade appropriate standards and align which technologies could work successfully.

Equipped for the Core (K-5)

Presented By: Debbie Waggoner (KDE/CKEC), Alice Gabbard (KCM), Erin Chavez (Second Street School), & Dee Crescitelli (Union College)

Room: Triple Crown

Description: Participants will engage in activities to learn more about how to properly implement Kentucky Core Academic Standards for Mathematics using core curriculum materials aligned to the depth intended. During this workshop, attendees will receive resources from Achieve the Core as they use grade-level "Focus Maps," plot "coherence" by sorting the progressions of the major work across grade levels, and determine high-quality tasks aligned to the "rigor" of conceptual understanding, procedural fluency, and applications in the math shifts. Finally, participants will evaluate sample curriculum materials using the EQUIP Rubric, also from Achieve the Core.

Conference Session Details
Session #6
Monday at 4:05pm-5:15pm

iPads, CCSS, and AVMR, Oh My! (K-5) ★

Presented By: Julie Ruck (Oshkosh School District, Wisconsin)

Room: Magnolia (1st Floor)

Description: We will explore the challenge of integrating the use of iPads into math instruction. You will learn about specific learning routines to build mathematical fluency using math talk and apps aligned to AVMR and CCSS.

Mathematical Modeling in Science (9-12)

Presented By: Peggy Welch (Jessamine Career & Technology Center)

Room: Bluegrass

Description: Participants will use data from the Ebola virus outbreak to explore the strengths and limitations of models. They will work in groups to model mathematics, and construct viable arguments and critique the reasoning of others while also addressing NGSS. Detailed handouts will be distributed.

March Madness Mayhem to Teach Probability (6-8)

Presented By: Lisa Conn (KY Christian University)

Room: Crimson Clover

Description: This presentation will provide attendees with an exciting way to use the NCAA March Madness bracket to teach probability. Students will use the seed ranks to establish theoretical probability. These probabilities will be represented by colored beads, random numbers generated by calculators, and random number tables to determine bracket winners.

Flipping The Classroom - Innovative Strategies for Engagement of Students (6-12)

Presented By: Judith Albanese (St. Leonard School)

Room: Blackberry Lilly

Description: This session will focus on how to engage students using the flipped classroom model. Participate in a flipped classroom and learn various strategies to flip the classroom. View examples of a flipped classroom to guide in the creation of your own lesson.

Measurable Me! (Pre-K) E

Presented By: Amanda Davis (Muhlenberg County Board of Education)

Room: Triple Crown

Description: Students need to be engaged when learning about math. This workshop will tell you how to engage your students using budget friendly manipulatives that we all have in our classroom or in our kitchen!

Join us for a “Celebration Dinner” in The Hilton’s Grand Kentucky Ballroom immediately following the last breakout session on Monday evening at 5:15pm. This dinner is free of charge to all conference attendees and speakers! Ticket must be in hand, and can be found with each individual’s check-in information.



Celebration Dinner

March 9, 2015
The Hilton's Grand Kentucky Ballroom
5:15 p.m.

*Thank you for your commitment to improving
mathematics education in Kentucky!*

Opening from
Robert King
President of the Council on Postsecondary Education

Presentation: A Blueprint for K-12 Mathematics
Dr. Bill McCallum
Lead Writer for the Common Core State Standards in Mathematics

Illustrative Mathematics, a non-profit corporation providing resources to illustrate the meaning of the standards for teachers, curriculum writers, and assessment writers, is developing course blueprints that map out how mathematics progresses in each grade level. I will show some of the high school blueprints and give a sneak preview of the middle school blueprints.

Closing Remarks from
Dr. Katherine Frank
Dean of the College of Arts & Sciences at Northern Kentucky University

Menu
Caesar Salad with Crisp Romaine Lettuce, Shaved Parmesan, & Garlic Groutons
Balsamic, Ranch & Caesar Dressings
Freshly Baked Rolls & Butter
Penne Pasta with Pesto Cream & Grilled Chicken
Fusilli Pasta with Meat Marinara Sauce
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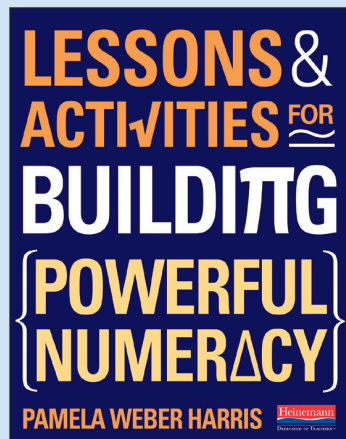
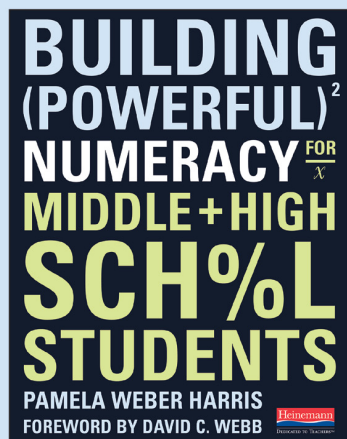


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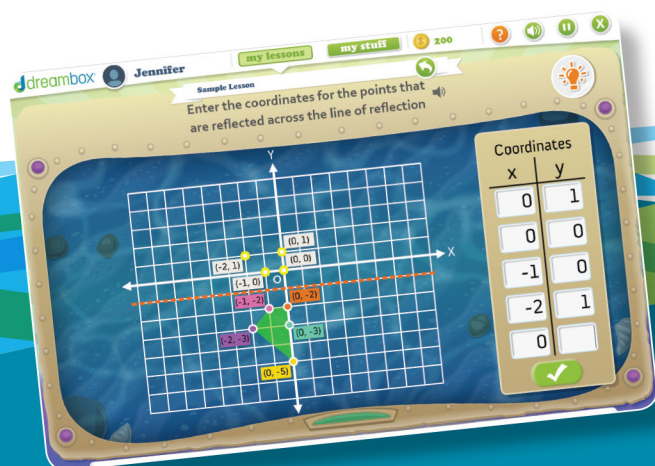
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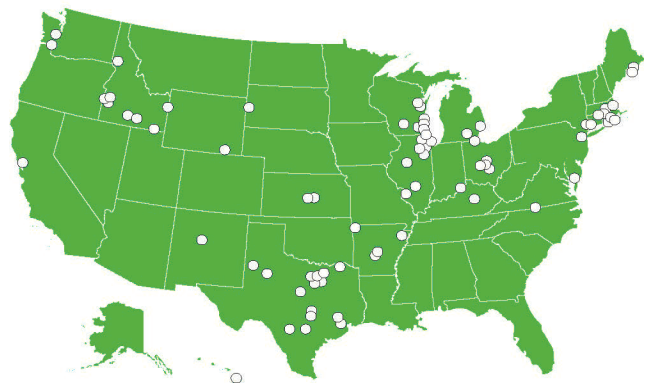
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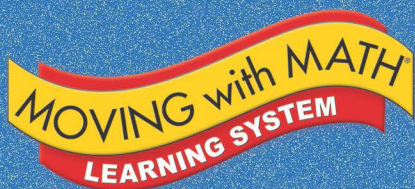
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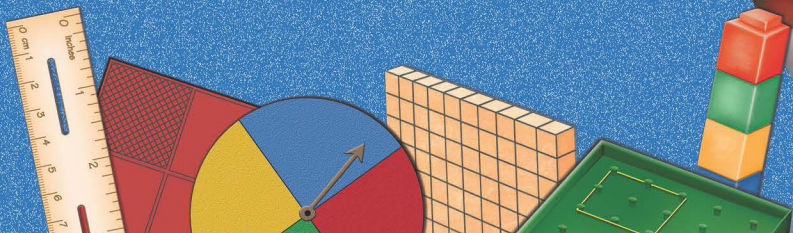
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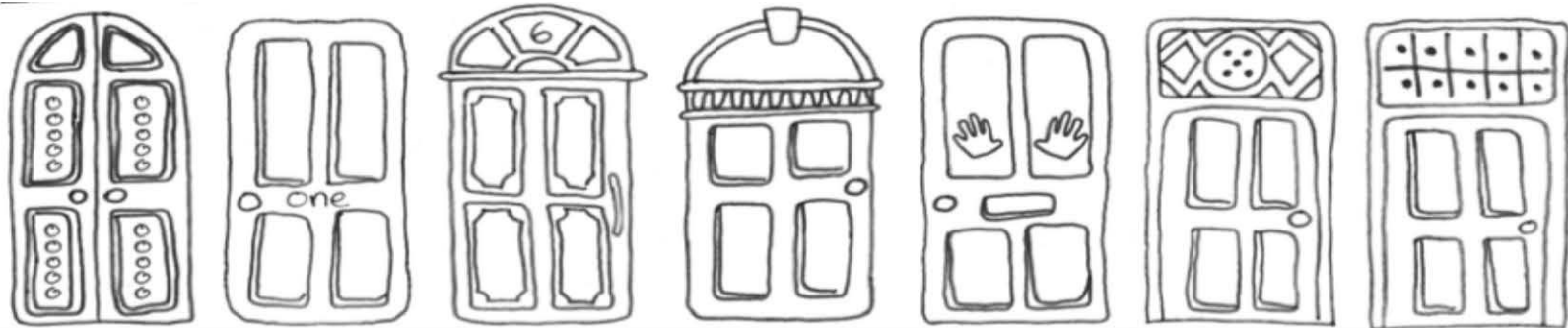
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The KCM will be announcing our 2015-16 PLEs in just a few short weeks! To receive notification of our upcoming offerings, be sure to email kcm@nku.edu to express your interest (and excitement!) - we will make sure you are first to hear the announcements.

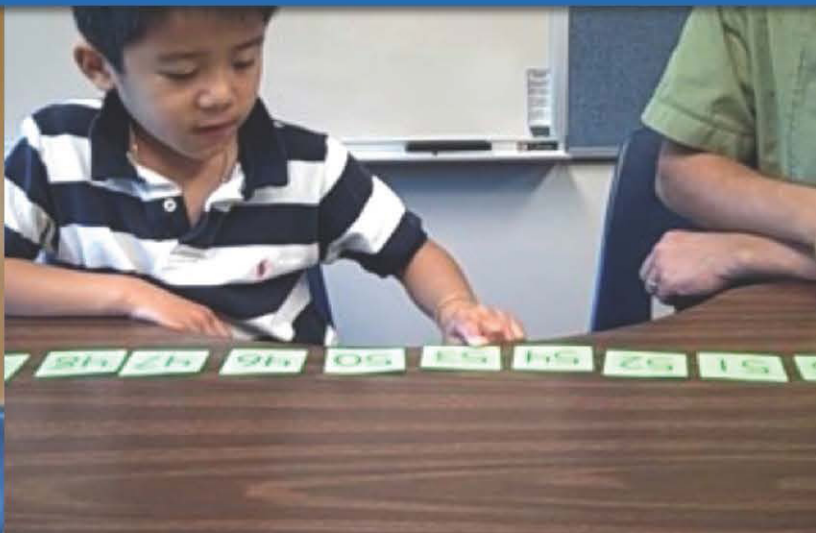
Upcoming PLEs can also be viewed on the KCM website under "KCM Offerings" on the "Professional Development" tab.

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Conference Session Details

Session #1

Tuesday at 8:00am-9:10am

Engaging Students with Special Outreach Programs (General) ★

Presented By: Elizabeth (Betsy) Yanik (Emporia State University)

Room: Magnolia (1st Floor)

Description: This session will discuss a wide variety of outreach programs. The session will also include a number of hands-on activities and demonstrations. Look out if you sit up front you may get wet!

Multiplication: Tools and Strategies to Move Students from Concrete to Abstract Thinking (3-5)

Presented By: Cindy Aossey (KCM), Monica Cain (Hattie C. Warner Elem.), Kim Campbell (Rosenwald-Dunbar Elem.), Connie Donaldson (Hattie C. Warner Elem.), Josh Logsdon (Nicholasville Elem.), Crystin Moore (Junction City Elem.), Tabor Placido (Nicholasville Elem.), Brittney Sanderson (Brookside Elem.), Karlie Taylor (Junction City Elem.), Amanda Terry (Shearer Elem.), & Michelle Wilkerson (Rosenwald-Dunbar Elem.)

Room: Salon A

Description: During this interactive session, participants will learn strategies to move students through the CRA (Concrete, Representational, Abstract) framework for multiplication. Instructional strategies will include using tools and models such as bead racks, base 10 blocks, cubes, arrays, quantity lines, number lines and symbolic representations.

Math Stories....Mystery Solved (K-3)

Presented By: Belle Rush (Chandlers Elementary)

Room: Salon B

Description: Math stories typically are one of the lowest areas of student achievement, and one of the hardest things for kids to understand. We will look at a basic outline of what type story should be taught at each grade level (K-3) and the phases children go through to solve them.

Great Minds Do NOT Think Alike When Problem-Solving (1-5)

Presented By: Vicki Breneman (US Math Recovery)

Room: Salon C

Description: When teachers design purposeful instruction, students apply concepts with understanding. Knowledge of how children learn math along with diagnostic assessments result in instruction that develops strategies for flexible thinking & confident problem solving.

Keeping It Balanced (K-3)

Presented By: Making Math Magic

Room: Salon D

Description: We ask students to solve missing addends/equations before they have any understanding of what equivalence is. This session will look at using physical models to solve equations.

Personalizing the K-8 Math Experience: Increase Student Engagement and Achievement (PreK-8)

Presented By: Kimberleigh DuBois (DreamBox Learning Math)

Room: Salon C

Description: Learn how a conceptual approach to math instruction, with the use of engaging and interactive manipulatives and rich digital tools can increase learner persistence and impact achievement outcomes. Discover how intelligent adaptive technology can provide a partnership to maximize instructional effectiveness within both student learning and data analytics.

Creative Integration of CCSS Math Practices, Quality Activities, Excellent Questioning, Pertinent Technology (6-12)

Presented By: Tom Reardon (Fitch High School/Youngstown State University)

Room: Crimson Clover

Description: Incorporate CCSS Mathematical Practices into your students' learning with these rich activities that can be used at various grade levels. Questioning techniques that create more engaging discussions will be illustrated. Get hands-on experience with graphing calculators and also see with an iPad app. Walk away with all the activities demonstrated.



Math Workshop: Increasing Student Engagement Through Differentiated Learning (K-5)

Presented By: Myranda Peterson (EKU Model Lab)

Room: Blackberry Lilly

Description: Small group instruction allows teachers to address the differing needs of students more effectively. The use of math workshop in the elementary classroom provides the opportunity for students to receive such instruction, while also participating in engaging and hands-on activities in independent centers.

The Flipped Classroom: The Tale of the Tape (6-12)

Presented By: Theodore Hodgson (Northern Kentucky University)

Room: Triple Crown

Description: This presentation will explore the outcomes of a grant-funded project to flip classrooms in 80 KY classrooms. Student achievement, student perceptions, teachers perceptions, and teacher practices - this presentation will provide participants with flipped classroom 'data' to assist with their own research-based decisions.

Conference Session Details

Session #2

Tuesday at 9:25am-10:35am

How Engaging Puzzles Build Algebraic Habits of Mind (6-12)



Presented By: Jane M. Kang (Education Development Center - EDC)

Room: Magnolia (1st Floor)

Description: Puzzles build intuition, logic, confidence, and stamina in algebra students - accelerated or struggling. Students (and people of all ages) find puzzles engaging, but their value doesn't stop there. Puzzles can be used to support number sense, encourage classroom discussion, and deliver algebra content. Participants will learn research-based strategies for using puzzles to develop algebraic reasoning from NSF-funded Transition to Algebra materials. They will solve and create puzzles to use with students.

Killing the Algorithm: Building Strategies Based on Place Value (3-5)

Presented By: Deborah Aparicio (Liberty Elem.), Belinda Blanton (Southside Elem.), Sylvia Carter (Morgan Central Elem.), Sandra Furnish (Northside Elem.), Sarina Gasser (Eastside Elem.), Barbara Gibbs (Northside Elem.), Tyler Hartzel (Southside Elem.), James Hay (McBrayer Elem.), Rosalind Hurley Richards (Liberty Elem.), Linda Montgomery (KCM), Sherry Pawley (Eastside Elem.), Carrie Riggs (Northern Elem.), Tinnah Sammons (McBrayer Elem.), & Dana Young (Northern Elem.)

Room: Salon A

Description: Explore ways to guide your students from robotic procedures and equip them with the tools to become proficient problem solvers. Participants will walk away with multiple strategies that can immediately be used in the classroom.

Engaging Student Learning Through Small Group Instruction (K-5)

Presented By: Chrystal Rowland (Robert B. Turner Elem.) & Logan Young (Robert B. Turner Elem.)

Room: Salon B

Description: Small group instruction can be a powerful tool in closing achievement gaps and ensuring growth for all learners. Glimpse into a fourth grade teacher's classroom as he tackles his first year of small group instruction. Get answers and resources to help you get started using the guided math framework.

Guided Math: Engaging All Students (K-3)

Presented By: Lynne Horn (Campbellsville Elm.), Lisa Riggs (Campbellsville Elem.), Lisa Wiseman (Campbellsville Elem.), & Nikki Price (Campbellsville Elem.)

Room: Salon C

Description: This session will explore our journey as we have evolved from a whole group direct math instructional model, to a more student-centered guided math model. Our presentation will include pictures and video of our classrooms and students at work. You will leave with resources and ideas.



Conference Session Details

Session #2 Continued

Tuesday at 9:25am-10:35am

Computation with Meaning - Multiplication/Division (4-5)

Presented By: Making Math Magic

Room: Salon D

Description: Students are taught “rules” for multiplication and division, but do not understand the concepts behind the operations and cannot predict/justify the reasonableness of an answer. This session will focus on understanding Computation with Respect to Place Value (and Composing/Decomposing Numbers) with various models to give students a variety of strategies for multiplying and dividing numbers.

Not So Strange Bedfellows: The Marriage of Mathematics and Literacy (Pre-K) **E**

Presented By: Julie Adams (Lewis County Schools)

Room: Bluegrass

Description: Math and Literacy go together like love and marriage; you can't have one without the other! Come to this engaging session that focuses on how to build a stronger marriage between the two! Come away with ideas on how to make the math come alive in picture books!

Free Interactive Explorations and Activities to Assist Learning Fractions, Ratios, & Proportional Reasoning (4-9)

Moderated By: Tom Reardon (Fitch High School/Youngstown State University)

Room: Crimson Clover

Description: See how to use 30 free colorful interactive lessons based on the CCSS progressions. Included are student worksheets and teacher solutions. Find out how to get the TI-Nspire Teacher software 90-day trial so that you can use this immediately. Or win the software or iPad app as a door prize.

MR Leader and AVMR Champion Q&A (K-5 AVMR Champions & MR Leaders)

Presented By: Carolyn Olijnek (US Math Recovery Council)

Room: Blackberry Lilly

Description: Champions and Leaders are encouraged to engage, ask questions, learn from one another and grow as professional developers. This session will be responsive to your questions and provide a forum with fellow instructors.

The Revolution of Technology in Teaching Structure (K-5)

Presented By: Tina Silvestri (Solon City Schools) & Julie Ruck (Oshkosh School District)

Room: Triple Crown

Abstract: This is an interactive session which will focus on guiding teachers to move students forward in their ability to structure number. Our goal is for participants to leave our session knowing how to extend students learning and rehearsal of skill through the use of integrating technology into learning routines, partner work, and discourse, in order to meet and/or exceed the proficiency levels outlined in the mathematical practices and fluency within the common core. Participants should bring laptops and/or iPads.

Conference Session Details

Session #3

Tuesday at 10:50am-12:00pm

The Secret of Structures (K-5)

Presented By: Shelly Bouden (Madison Kindergarten Academy) & Jennifer Martin (Madison Kindergarten Academy)

Room: Magnolia (1st Floor)

Description: Administrators are looked to as the instructional leaders of the building. By putting structures in place that allow math interventionists to impact and influence Tier 1 instruction, principals can support their interventionist while improving overall mathematical instruction, achievement and learning throughout the school.



Addition and Subtraction: Beyond the Standard Algorithm (1-4)

Presented By: Cindy Aossey (KCM), Rebecca Arnett (Collins Elem.), Stefanie Borders (Summit View Elem.), Courtney Bray (Goodridge Elem.), Traci Branstutter (New Haven Elem.), Jennifer Bryngelson (Florence Elem.), Andrew Calland (Gallatin County Upper Elem.), Shari Cook (Burlington Elem.), Angela England (New Haven Elem.), Kim Laughlin (Kenton Elem.), Georgie Richman (Kenton Elem.), Charlotte Smith (EKU Model Lab), Sherry Sparks (Summit View Elem.), Vicki Tekouk (Burlington Elem.), & Mary Wehmeyer (Florence Elem.)

Room: Salon A

Description: The goal of this workshop is to empower teachers to help students embrace and build on their individual strategies for solving addition and subtraction tasks. As teachers, we strive to understand there are many ways to solve problems. Come learn strategies and acquire tools for developing student thinking. Participants will walk away with classroom-ready activities.

High Levels of Engagement while Maintaining Rigor and Relevancy (K-6)

Presented By: Michelle Hunt (Hillsboro Elem.) & Jodi Grannis (Hillsboro Elem.)

Room: Salon B

Description: This session provides an overview of the implementation of Engage New York Curriculum school wide K-6 and the use of Formative Assessment Lessons in the classroom. Participants will participate in a Formative Assessment Lesson as well as analyze examples of productive struggle in student thinking. Presenters will provide models used in the implementation of Engage New York at various grade levels to illustrate the high levels of engagement while maintaining rigor/relevancy. Instructors will mock teach a lesson from Engage to illustrate the level of rigor and productive struggle students experience.

Helpful Homework: Getting Parents to Work with You Instead of Against You (1-3)

Moderated By: Nick Harris (Cane Ridge Elementary) & Bethany Neel (Cane Ridge Elementary)

Room: Salon C

Description: Are your students' addition and subtraction strategies being undermined by premature exposure to procedures and algorithms outside of your classroom? Join us on our crusade to create homework experiences that engage families in thinking about math as quantity instead of a series of steps and tricks.

Proportional Reasoning Across the Curriculum (6-12)

Presented By: Making Math Magic

Room: Salon D

Description: Proportional Reasoning touches so much of the math curriculum in the common core that it is a great vehicle for promoting the practice standards. Come see some examples that you can use in your classroom.

Engaging Students in Addition and Subtraction (K-1)

Presented By: Lynn Patterson (Murray State University), Lauren Janeaux (Murray State University), Emily Bruns (Murray State University), Tiffany Burnett (Murray State University), Jill Hewlett (Murray State University), & Caisey Dotson (Murray State University)

Room: Bluegrass

Description: This presentation will feature five amazing teacher candidates presenting and sharing the hands-on interactive experiences they created and taught in a kindergarten classroom. Participants will be introduced to 'Gus the Plus', 'Ellie Equal', 'Linus the Minus', 'Pete the Cat', and more. Engage in manipulative models, literature, and co-teaching fun!

Patterns in Nature (4-9)

Presented By: Peggy Welch (Jessamine Career & Technology Center)

Room: Crimson Clover

Description: Participants will engage in activities that provide strategies to integrate CCSS and NGSS. Mathematical modeling of both univariate and bivariate data of variations within and between populations will be explored. Participants will work in groups and discuss and share their investigations.

Conference Session Details

Session #3 Continued

Tuesday at 10:50am-12:00pm

Bridging the Gap in Response to Intervention (RTI): The Honey Badger Intervention Lab, Accelerated Reading & Math (9-12)

Presented By: Bret Cormier (KY State University) & Kimberly Kincaid (Pearson Education)

Room: Blackberry Lilly

Description: This presentation is to assist educators in helping students in their core academic areas. Teachers will learn to help students in these areas by teaching, reteaching, working with students in groups of one to three to help them with class assignments, concepts, and utilizing continued assessment.

Research and Practice in Multi-Digit Alternative Algorithms (3-5)

Presented By: Cindy Jong (UK), Bailey Hume (UK), & Haley Dowty (UK)

Room: Triple Crown

Description: Alternative Algorithms can provide greater access and help students develop a deeper understanding of operations. In this session, attendees will work in small groups to figure out various alternative algorithms and present them. Research on alternative algorithms will be presented and attendees will engage in a discussion of their application.

Conference Session Details

Session #4

Tuesday at 1:15pm-2:25pm

Building Powerful Numeracy (3-12) ★

Presented By: Pamela W. Harris (The University of Texas)

Room: Magnolia (1st Floor)

Description: How do we build powerful numeracy in our students? What if they don't know their facts? Come experience strategies to help all students construct numerical relationships so that they can succeed in higher math. We'll discuss an overall vision and focus on some specific examples you can use in your class. Math is figure-out-able!

Remove the Fear of Fractions (3-5)

Presented By: Kristin Baker (Sand Gap Elem.), Elizabeth Jean Bingham (Central Elem.), Amanda Boyle (Nancy Elem.), Regina Flannery (Sand Gap Elem.), Kevin Fugate (A.B. Combs Elem.), Gwen Morgan (KCM), Mindy Neace (A.B. Combs Elem.), Samantha Tompkins (Albany Elem.), Reda Thurman (Albany Elem.), & Bereda Weddle (Nancy Elem.)

Room: Salon A

Description: Remove the fear of fractions in your 3-5 students! Come join the MaRTI Plus London Cohort and be involved in hands on activities that help students make sense of fractions. You will see how the activities are aligned to the Common Core Standards, and you will leave the session with activities that will promote student development of understanding fractions.

Getting Started with Number Talks! (K-3)

Presented By: Marlana Humphrey (Bullitt County Public Schools) & Linda Jewell (KCM)

Room: Salon B

Description: Participants will explore the use of Number Talks to promote the development of number sense and the use of mental math strategies in computation. Participants will view and discuss sample classroom video Number Talk sessions. Sample tasks for Number Talks will be given.

Digging Deeper into Common Core Math Assessments (General)

Presented By: Jana Bryant (Daviess County Public Schools)

Room: Salon C

Description: Attendees will gain knowledge of several tools to use in professional learning experiences that will help educators dig deeper into the math common core standards. The tools will include a Minnesota slice protocol for examining and identifying student work in terms of rigor, skill, conceptual understanding and application.



Math Games for High School (9-12)

Presented By: Making Math Magic

Room: Salon D

Description: Games can provide a valuable opportunity for students to practice and apply mathematical concepts critical to the Common Core Content Standards and the Standards for Mathematical Practice. Teachers can use gaming experiences for informal formative assessment and differentiation to better meet student needs. This session will include a variety of content-appropriate games across the high school math strands of algebra and geometry for whole class, small group, and individual participation.

Increasing Engagement Through Manipulatives, Part 1 (K-5)

Presented By: Lynn Smith (Jefferson County Public Schools) & Tim Truitt (Jefferson County Public Schools)

Room: Bluegrass

Description: This presentation gives an opportunity to experience the use of manipulatives with mathematics in grades K through 5 and the connection of the manipulatives to an area model. Selected topics span from the two Number and Operations domains along with the inclusion of mathematical practices.

Word Problems: From Theory to Strategies (K-5)

Presented By: Jad Salameh (Jefferson County Public Schools)

Room: Crimson Clover

Description: Throughout history, as the focus on why we are teaching math changed, the strategies for solving word problems have also changed. What was once considered 15 difference situations of word problems may actually have only three difference structures. With intentional instruction of those structures, struggling students can develop a strong foundation to solve those word problems.

Liar's Bingo Revisited: Look for Patterns and You Won't Have to Remember Your Lies (9-16)

Presented By: Shelly Sheats Harkness (University of Cincinnati), Catherine Lane (University of Cincinnati), & Jonathan Thomas (Northern Kentucky University)

Room: Blackberry Lilly

Description: Join us for a sequel to our 2013 KCM presentation as we revisit the game of Liar's Bingo. Play the game and then explore the mathematics inherent in it. "Liars don't have to remember their lies" if they find and use mathematical patterns.

Be Precise: Link Multiplication and Division (3-5)

Presented By: Rob Nickerson (Origo Math)

Room: Triple Crown

Description: Not all students can simply memorize basic facts! Join us and learn how to implement the CCSS, including Attending to Precision, by teaching your students to develop thinking strategies for learning basic multiplication and related division facts in a meaningful way. Innovative and conceptually-based games and resources that get students excited to learn basic math facts will be utilized.

Conference Session Details

Session #5

Tuesday at 2:40pm-3:50pm

Math Camp-In (K-5)

Presented By: Cindy Gross (Waco Elem.), Jennifer Martin (Madison Kindergarten Academy), & Lucy Anderson (Shannon Johnson Elem.)

Room: Magnolia (1st Floor)

Description: We are excited that participants will be hiking the Math Camp-In Trail with us! We will give you tips on how to organize a Math Camp-In experience at your school. Participants will have the opportunity to explore various Math Camp-In stations that allow students to apply their mathematical knowledge.

Conference Session Details

Session #5 Continued

Tuesday at 2:40pm-3:50pm

Multiplication – It's a Game! (3-5)

Presented By: Beverly Bethay (LaGrange Elem.), Sandra Bollenbecker (Adairville Elem.), Missy Cox (LaGrange Elem.), Jody Elben (Adairville Elem.), Mary Helen Hodges (KCM), Christa Huskisson (Estes Elem.), Whitney Jewell (Estes Elem.), Beth Meiman (KCM), Sara Omer (Crittenden County Elem.), Sarah Riley (Crittenden County Elem.), Shelly Scott (Joe Harrison Carter Elem.), & Pat Thompson (Joe Harrison Carter Elem.)

Room: Salon A

Description: Experience games and activities to help move students toward fluency in multiplication and division. You will be introduced to the Kentucky Numeracy Project Intervention Guide (KNPIG) as well as other resources. Participants will learn how to obtain these free games to be used in classrooms and/or RTI groups. PLAYTIME included!!

Formative Assessments - Guiding Student Instruction (K-5)

Presented By: Katie Gissing (Paris Elem.)

Room: Salon B

Description: Do educators know if their students will be ready to successfully show understanding by the end of the unit? Educators often do not effectively use assessment data due to their complexity. However, progress monitoring can be accomplished with a variety of formal assessments that are actually very efficient and precise.

Implementing Math Workshop in the Elementary Classroom (K-5)

Presented By: Joshua Rhodes (Jefferson County Public Schools)

Room: Salon C

Description: Tired of boring lessons? Tired of unmotivated students? Tired of students that think negatively about math? Implement math workshop in the elementary classroom and watch engagement and mastery of math content soar. Learn how to set up math workshop and take away usable resources for your classroom.

Computation with Fractions (4-6)

Presented By: Making Math Magic

Room: Salon D

Description: This session will emphasize developing conceptual understanding of Computation with Fractions. Multiple experiences in physically modeling and sense-making with fraction computation problems will give students strategies for problem solving and transferring their understanding to symbolic notation.

Increasing Engagement Through Manipulatives, Part 2 (6-12)

Presented By: Tim Truitt (Jefferson County Public Schools) & Lynn Smith (Jefferson County Public Schools)

Room: Bluegrass

Description: This presentation gives an opportunity to experience the use of manipulatives with mathematics in grades 6 through 12 and the connection of the manipulatives to an area model. Selected topics span from the Expressions and Equations domain to the Algebra and Functions domains along with the inclusion of mathematical practices.

Leading from the Classroom (General)

Presented By: Suzanne Farmer (KY Network to Transform Teaching)

Room: Crimson Clover

Description: Are you Nationally Board Certified? If you are wanting to improve your differentiation, analysis of student work, and self-reflection, you should be. Learn about the revision to the National Board process and delve into equitable instruction.



Engaging the Teacher in Practical PLC's (RIP Research into Practice) (General)

Presented By: Anthony Dietrich (Pendleton County Schools), Craig Smith (Pendleton County High School), & Gena Lea (Pendleton County High School)

Room: Blackberry Lilly

Description: This is a presentation of our PLC philosophy and protocol. Attendees will learn how we use the intended curriculum to drive planning while we use the learned curriculum to respond to student misconceptions and reteach.

Pumpkin' Chunkin...Developing Conceptual Understanding of Quadratics (9-12)

Presented By: Cassie Martin Reynolds (Carnegie Learning) & Kasey Bratcher (Carnegie Learning)

Room: Triple Crown

Description: Need fresh ideas for introducing quadratics to your students? Come explore ways to encourage all students to make conjectures about key characteristics of graphs and transformation behavior and to help students make sense of the vertex form of quadratics.

Conference Surveys

One of the most important parts of our annual conference each year is receiving the incredibly valuable feedback of the attendees. It is because of your comments and evaluations that we are able to continue to improve how we serve you each and every year.

We encourage you to fill out a brief evaluation form at the conclusion of each breakout session presentation you attend. Evaluation forms can be found in the back of each presentation room. Completed forms can either be turned in to the room monitor or to the conference registration table, located at the top of the escalators.

In addition, each conference attendee will receive a survey link to evaluate their overall conference experience via email after the conference is over. Interested participants will be entered into a drawing for a Barnes & Noble gift card as a thank you for their participation in the survey process. We look forward to receiving your feedback.

**This conference program is dedicated in loving memory to Ann Booth.
Her passion for math education and her dedication to Kentucky students
continues to inspire each and every one of us in our work.**

Thank you, Ann, for all that you taught us.

**Ann Booth
October 13, 1938 - February 8, 2015**

KCM Staff

Kentucky Center for Mathematics
MEP Building 475 - Northern Kentucky University - Highland Heights, KY 41099 - 859-572-7690
Fax: 859-572-7677 - kcm@nku.edu

Meredith Brewer

Associate Director
brewerm8@nku.edu
859-572-5976

Jennifer Martinez

Assistant Director
lambj1@nku.edu
859-572-7676

Jill Parker

Associate Director
parkerj8@nku.edu
859-572-7745

Allison Buchanan

Administrative Specialist
buchanana4@nku.edu
859-572-7690

Mandy McDonough

Communications &
Events Coordinator
mcdonougha1@nku.edu
859-572-7696

Pam Reichelderfer

Systems Analyst
reicheldep1@nku.edu
859-572-7693

Alice Gabbard

Senior Director
gabbardal@nku.edu
859-572-7691

Daniel McGee

Executive Director
mcgeed4@nku.edu
859-572-7690

Paula Stapleton

Business Officer
stapletonp1@nku.edu
859-572-6339

Sharon Koenig

Administrative Assistant
koenigs1@nku.edu
859-572-7971

TJ Murphy

Faculty Associate
murphytj1@nku.edu
859-572-6348

Jonathan Thomas

Faculty Associate
thomasj13@nku.edu
859-572-6580

KCM Regional Coordinators

Cindy Aossey

cindy.aossey@outlook.com

Linda Jewell

lindagjewell@gmail.com

Gwen Morgan

gwenmorgan@tds.net

Mary Helen Hodges

mhodges@murraystate.edu

Beth Meiman

beth.miracle.meiman@gmail.com

Selisa Adams

selisa.adams@eku.edu

Kris Jarboe

jarboek1@nku.edu

Linda Montgomery

msmathky@windstream.net



Congratulations, MaRTI Plus Graduates!

Congratulations to all of the MaRTI Plus (Mathematics Response to Intervention Plus) graduates who've completed very rigorous requirements, including 20 in-person days of training and presenting 6 hours of professional learning at their schools! Thank you to these folks for stepping up to present their culminating projects during five sessions on Tuesday, March 10, at our 2015 KCM Conference!

Northern Kentucky Cohort

Facilitated by Cindy Aossey

Rebecca Arnett
Stephanie Borders
Courtney Bray
Traci Branstutter
Jennifer Bryngelson
Andrew Calland
Shari Cook
Angela England
Kim Laughlin
Georgie Richman
Charlotte Smith
Sherry Sparks
Vicki Tekouk
Mary Wehmeyer

Lexington Cohort

Facilitated by Linda Montgomery

Deborah Aparicio
Belinda Blanton
Sylvia Carter
Sandra Furnish
Sarina Gasser
Barbara Gibbs
Tyler Hartzel
James Hay
Rosalind Hurley Richards
Sherry Pawley
Carrie Riggs
Tinnah Sammons
Dana Young

London Cohort

Facilitated by Gwen Morgan

Kristin Baker
Elizabeth Jean Bingham
Amanda Boyle
Regina Flannery
Kevin Fugate
Mindy Neace
Samantha Tompkins
Reda Thurman
Bereda Weddle

Owensboro Cohort

Facilitated by Mary Helen Hodges and Beth Meiman

Beverly Bethay
Sandra Bollenbecker
Missy Cox
Jody Elben
Christa Huskisson
Whitney Jewell
Sara Omer
Sarah Riley
Shelly Scott
Pat Thompson

Jessamine County Cohort

Facilitated by Cindy Aossey

Monica Cain
Kim Campbell
Connie Donaldson
Josh Logsdon
Tabor Placido
Crystin Moore
Brittney Sanderson
Karlie Taylor
Amanda Terry
Michelle Wilkerson



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As a courtesy, the Kentucky Center for Mathematics (KCM) would like to alert all conference attendees, featured speakers, presentation speakers, presentation co-speakers, sponsors, and special guests that the 2015 KCM Conference titled, "Engage!" will be photographed by a professional photographer. Because of this fact, it is possible that you may be included in these photos as an inevitable part of being present at this conference.

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Thank you!
-The KCM Staff

