

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: A1 Level: General

Newcomer Session

Time: 7:30 AM **Keith Dreiling** **Location:** Dining Area
Fort Hays State University

First timers should attend this session to get insider information about KATM and about making the most out of a conference experience. Some door prizes are also planned.

Strand:

DINAH-MIGHT ADVENTURES Grade Level 3-5

Time: 8:15 AM **Rhonda Meyer** **Location:** Library

Dr. Meyer will share Dinah Zike's approach to using 3-D interactive graphic organizers to help students understand abstract mathematical concepts. Participants in each hands-on session will make representational tools that are evidence-based, integrative, and kinesthetic as well as grade and ability level appropriate. See and hear curricular integrative examples using easily-created yet powerful Foldables® and manipulatives to make math concepts and processes real and immediate for each grade level.

Code: B1 Level: All

KSDE Math Standards and the National Common Core

Time: 8:15 AM **David Barnes** **Location:** 123
KSDE

This session will discuss the potential impact of the common core standards on Kansas.

Strand: All

Code: B2 Level: 6-12

Hands-On Algebra

Time: 8:15 AM **Jennifer Bolend** **Location:** 121
USD 512 Shawnee Mission

Students with math difficulties often need more hands-on opportunities. Using manipulatives to teach algebraic concepts can be fun and easy -- even for middle and high school students. During this session, you will "play" with several different manipulatives proven to make algebra fun and attainable for all students

Strand: Algebra

Code: B3 Level: 6-College

Elementary Function Modeling with TI-84+/CBL2/Vernier Science Probes

Time: 8:15 AM **Beth Kilday** **Location:** 111
Double session Sterling College

Come investigate and discuss integrated math/science activities using the TI-84+/CBL2/Probes that model those functions students learn in grades 6-12. We will concentrate our exploration on different Vernier sensors like voltage, pressure, temperature, pH, microphone, and light while examining linear, rational, exponential, and sinusoidal functions.

Strand: Algebra

Code: B4 Level: 6-8

Movin' with Middle School Math – Fresh Approaches for Making the Learning Last

Time: 8:15 AM **Kathy Zigeler** **Location:** 109
Holly Nelson
USD 512 Shawnee Mission

Hook your students with rhymes, raps, cards, songs, and activities. Learn new strategies for presenting order of operations, integers, properties, solving equations, the real number system, coordinate plane, nth term, and much more through active participation. This fast paced presentation will get you excited about math that really works in the classroom.

Strand: All

Code: B5 Level: K-3, ESL

Make it Meaningful – Number Sense

Time: 8:15 AM **Joan Purkey** **Location:** 148
Newman University

Building understand of number sense in K-2 is a must. Participants will receive many exciting number sense, place value, and computation activities that are sure to win the approval of all students.

Strand: Number Sense

Code: B6 Level: 9-12

What's APP'ening @ TI?

Time: 8:15 AM **Jeff Sadler** **Location:** 106
Fort Hays State University

Blast from the past to Flash. Come learn about the new generation of Connectivity with Awesome APPS & the revolutionary new TI Navigator Classroom Learning system. Some lucky person will win a door prize.

Strand: Algebra

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: B7 Level: 9-12

Dynamic Model Software: Not Just for Geometry

Time: 8:15 AM **Debbie Sylvester** **Location:** 114
USD 320 Wamego

Is dynamic modeling software for geometry only? We will examine uses beyond geometry. Included will be demonstrations of web-based and commercial software. Participants will receive activities and a list of sites with free web-based dynamic modeling software to use on Monday morning.

Strand: Algebra/Geometry/Pedagogy

Code: B8 Level: All

21st Century Skills and Kansas Math

8:15 AM **Margie Hill** **Location:** 119
University of Kansas

Kansas is one of seven states formally involved in the national initiative called Partnership for 21st Century Skills. This session will introduce you to the P-21 website and share how these skills will impact our Kansas mathematics classrooms

Strand: All

Code: B9 Level: All

Say the Word: Teaching Math Vocabulary

Time: 8:15 AM **Carol Panzer** **Location:** 120
SWPRSC

Math vocabulary is a new language to many of our students. Therefore we need multiple strategies to get our students engaged in learning these new terms. This session will explore ways of using research-based vocabulary instruction with young students.

Strand: Pedagogy

Code: C1 Level: 4-8, SPED, Paras, Admin

101 (Well, Almost) Ideas for Having Fun Teaching Fractions, Decimals, and Percents

Time: 9:10 AM **Lee Anne Coester** **Location:** 112B
Washburn University

Engage students while you support the standards on fractions, decimals and percents. Discover games, manipulatives to make and buy, literature books, real life connections and resources. Bring the fun back into the classroom.

Strand: Number/Computation

Code: C2 Level: 6-12, K-5

Math Content + Technology = Students Participating in Their Own Learning (& Happy Teachers)

Time: 9:10 AM **Karla Brown** **Location:** 115
Common Sense Math
Repeats at 11:10

FACT: Students lack number sense & computation skills
FACT: Math teachers need & want content that builds number sense

FACT: Classroom technology engages students
FACT: High-yield instructional strategies promote permanent learning

Finally, it all works together to consistently develop number sense, mental math strategies, basic computation skills, and vocabulary - at all levels. By using pre-made content AND technology to incorporate high-yield instructional strategies & PLC concepts, students will participate in their own learning. Math teachers get an "edge" with premade, no-teacher-prep content & tools that work with all brands of Interactive White Boards, student "Clickers," Wireless Chalkboard/Tablets, DVD players and more. Let's maximize your classroom technology!! And, even if you have little or no classroom technology, CSM has something for you.

Strand: All

Code: C3 Level: 2-6

ALTEC at the University of Kansas

Time: 9:10 AM **Melodie Bacon** **Location:** 112A
University of Kansas

ALTEC at The University of Kansas develops online game resources for basic math, language arts, vocabulary, and thinking skills that can be played in single or multi-player formats, or on the Wii. Leave this session with great resources to share with colleagues in grades K-8 and help students improve classroom achievement.

Strand: Number/Computation/Geometry/Pedagogy

Code: C4 Level: K-3

Developing Capacity for Capacity

Time: 9:10 AM **Debbie Schulben** **Location:** 117C
Shawnee Mission

How much can this hold? Which of these containers holds more? Developing number sense for capacity requires a variety of opportunities for children to explore capacity. This session will give participants hands-on experience with multiple activities designed to help children develop their capacity to understand capacity. A range of adaptations will be explored to make them applicable across grade levels.

Strand: Geometry

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: C5 Level: K-3, ESL

Let's Predict: With Data and Probability

Time: 9:10 AM **Joan Purkey** **Location:** 148
Newman University

Predict, collect data, and analyze the results -- an exciting session on how to get students involved in collecting their own data.

Strand: Data/Statistics

Code: C6 Level: 9-12

Number Sense in the High School

Time: 9:10 AM **Lanee Young** **Location:** 103
Fort Hays State University

Develop number sense at the high school level to prepare students for higher level math and real life reasoning.

Strand: Number Sense

Code: C7 Level: All

Brain Based Math Learning

Time: 9:10 AM **Carol Panzer** **Location:** 120
SWPRSC

This session will show you several activities that support the research on brain-based learning and relate specifically to math. This will be based on the work of Dr. Marcia Tate, author of *Math Worksheets Don't Grow Dendrites*.

Strand: Pedagogy

Code: C8 Level: 6-8, 3-5

A Piece of Cake: Solving Word Problems

Time: 9:10 AM **Kelly Norman** **Location:** 110
Repeats at 1:30 USD 501 Topeka

Learn the problem solving strategy called Model Drawing. This method of tackling word problems originate in Singapore which has repeatedly remained at the top of the world on the TIMSS mathematical achievement test. This strategy is another tool for a student's toolkit and is a way for them to represent word problems pictorially, organize their thinking and easily find an answer to tough word problems. An understanding of Model Drawing also leads students to have greater success when converting word problems to algebraic expressions as their understanding of math grows from the concrete and pictorial to the abstract in Algebra.

Strand: Number Sense

Code: C9 Level: 2-8

Mathjive!

Time: 9:10 AM **Wendy Hill** **Location:** 118
Repeats at 11:10 USD 215 Lakin

Mathjive is a teaching technique that utilizes visual vocabulary words, chants, and hand motions to teach math concepts in a way that is fun and easy to remember. This unique teaching technique is an effective way to help increase comprehension of mathematical terms for ELL students, special needs students, as well as regular education students from second through eighth grades.

Strand: All

DINAH-MIGHT ADVENTURES Grade Level 6-12

Time: 10:15 AM **Rhonda Meyer** **Location:** Library

Dr. Meyer will share Dinah Zike's approach to using 3-D interactive graphic organizers to help students understand abstract mathematical concepts. Participants in each hands-on session will make representational tools that are evidence-based, integrative, and kinesthetic as well as grade and ability level appropriate. See and hear curricular integrative examples using easily-created yet powerful Foldables® and manipulatives to make math concepts and processes real and immediate.

Code: D1 Level: K-3, SPED, ADMIN

MTSS and MATH: Where Do We Start?

Time: 10:15 AM **Jennifer Bolend** **Location:** 121
USD 512 Shawnee Mission

Start with data! This session will focus on data-based decision making, the early indicators of math difficulty, core instruction, and small-group intervention. Learn how to screen students, build your master schedule to reflect specific student needs, and provide staff development around the BIG IDEAS for K-2. Participants will receive ideas and handouts that can be used to help design their own model.

Strand: Pedagogy

Code: D2 Level:

SMART Break-Out Session

Time: 10:15 AM **Karla Brown** **Location:** 115
Common Sense Math

Check out the new Notebook Math Software and Classroom Suite that turns computers into Response "clickers".

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: D3

Level: 4-6

Mini Metric Olympics

Time: 10:15 AM **Paul Prewo** **Location:** 119
Logan High School

Ever wanted a fun way to teach students to work with metric units? This week-long (or longer) unit is a fun introduction/refreshers on how to convert in metric units. Students will become familiar with metric units by estimating and measuring in a "Metric Olympic" setting. Some of the Olympic Events: Paper Plate Discus, Straw Javelin, Marble Grab, Cotton Ball Shot Put, Left-handed Sponge Squeeze, and Big Foot Contest. Also included will be a wonderful "foldable" with a great saying to help students remember how to convert in the metric system.

Strand: Number Sense

Code: D4

Level: K-3, ESL

Geometry/Measurement in a Nutshell

Time: 10:15 AM **Joan Purkey** **Location:** 148
Newman University

Geometry is many things: shapes, symmetry, numberlines and so much more! Come experience the world of Geometry from a K-2 child's viewpoint. Exciting activities presented will cover Geometry: Figures, Algebraic Perspective, and Transformation as well as activities for Measurement and Estimation.

Strand: Geometry

Code: D5

Level: 2-6

Measuring Up: Building Student Understanding of Measurement Inch by Inch

Time: 10:15 AM **Debbie Thompson** **Location:** 114
USD 259 Wichita

Participants will be engaged in strategies and techniques that will increase students' understanding of measurement. The shared strategies will show how measurement needs to be structured to build from the concrete to the abstract. Learning activities will be shared so that participants can use them right away in the classroom. Get the "short and long of it" at this session!

Strand: Geometry

Code: D6

Level: 2-6

Engaging the Brain in Number and Computation

Time: 10:15 AM **Joyce Frederiksen** **Location:** 102
SWPRSC

Student engagement is crucial to learning. This break-out will focus on strategies to help students understand number and computation by getting their brains actively engaged and transforming your classroom into a dynamic classroom.

Strand: Number Sense

Code: D7

Level: 4-8

'Great Eats' in Communicating Mathematical Thinking

Time: 10:15 AM **Jennifer Cooper** **Location:** 106
USD 475 Geary County

Picture this... a bistro with comfortable tables, a fantastic menu, and every one of your students communicating about math! Come see a Differentiated Instruction lesson using a real world situation that includes mathematically based literature and focuses on analyzing concepts and communicating mathematical thinking! Bring your Math-appetite!

Strand: Geometry

Code: D8

Level: All

How Poverty Impacts Children

Time: 10:15 AM **Carol Panzer** **Location:** 120
SWPRSC

Students from low socio-economic backgrounds may view the world differently than many middle class teachers. This session will give you a quick overview of some of the differences that you may encounter when working with these students and a few methods to support their learning.

Strand: Pedagogy

Code: D9

Level: 4-8

"What's Math got to do with Farming?" -- Integrating Literature, Technology, and Hands-On Activities with Mathematics.

Time: 10:15 AM **Teri Gaeddert** **Location:** 110
Kelli LaRosh
Sterling College

This workshop is designed to use a trade book as a springboard for learning mathematics content. "What's Math got to do with Farming?" was written by a Sterling College math education candidate as part of a class assignment. The book was published in January 2009 and has sold over 600 copies. The goal of the workshop is to provide hands-on and manipulative activities, video and print resources and opportunities to integrate technology in the topic areas of: estimation, conversions, area/perimeter/volume, and real-world applications. Differentiated instructional strategies will be included.

Strand: Number/Computation/Geometry

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: E1

Level: K-2, ESL,
SPED, Paras

Math in a Flash!

Time: 11:10 AM
Jennifer Weilert **Location:** 112A
USD 259 Wichita

Number relationships play a significant role in fact mastery. Helping children develop a strong understanding of number relationships and operations can help them construct efficient strategies for fact retrieval through practice. Fact mastery has little to do with quantity of drill or drill techniques. This interactive session will activate prior knowledge, model standards-based activities, and incorporate cooperative learning structures with a variety of math concepts. Participants will learn many strategies that can be used to review and maintain math skills.

Strand: Number/Computation

Code: E2

Level: K-3, ESL

It's Raining ALGEBRA, not Cats and Dogs

Time: 11:10 AM
Joan Purkey **Location:** 148
Newman University

Algebra for K-2, YES! Many hands-on activities will be presented to help integrate Algebra concepts into the K-2 mathematics classroom. Participants will have numerous activities to use in their classroom to help motivate students to learn ALGEBRA in K-2 classroom.

Strand: Algebra

Code: E3

Level: K-8

Math Strategies and Beyond

Time: 11:10 AM
Lisa Lajoie-Smith **Location:** 117C
Sedgwick County
Cooperative

This presentation will provide an overview of specific challenges that students face when learning math skills and concepts. Strategies and techniques to address these specific challenges will be discussed. Free, interactive web resources will be demonstrated to promote the application of tools that can easily be integrated into the classroom. Also included, a mini make-it/take it session in which participants can create manipulatives and visuals to use in their classroom the very next day.

Strand: Pedagogy

Code: E4

Level: All

Intro to Instruction that Works

Time: 11:10 AM
Carol Panzer **Location:** 120
SWPRSC

Robert Marzano's meta-analysis of the research on teaching and learning will be the basis for this quick overview of the nine instructional strategies that have the most impact on student learning. How many do you use on a regular basis?

Strand: Pedagogy

Code: E5

Level: 2-5

Engaging the Brain in Algebra

Time: 11:10 AM
Joyce Frederiksen **Location:** 102
SWPRSC

Student engagement is crucial to learning. This break-out will focus on strategies to help students understand Algebra by getting their brains actively engaged and transforming your classroom into a dynamic classroom

Strand: Algebra

Code: E6

Level: K-8

Brain-Based Strategies for Increasing Student Achievement and Performance in Mathematics

Time: 11:10 AM
Tonji Stringfellow **Location:** 103
Repeats at 1:30
McKII Extended Learning
Institute

This workshop is designed to allow teachers to develop the knowledge of specific research "brain-based" strategies that will increase their students' academic performance and achievement through differentiated instruction and other brain-based activities.

Strand: Pedagogy

Code: E7

Level: 2-8

Mathjive!

Time: 11:10 AM
Wendy Hill **Location:** 118
Repeated from 9:10
USD 215 Lakin

Mathjive is a teaching technique that utilizes visual vocabulary words, chants, and hand motions to teach math concepts in a way that is fun and easy to remember. This unique teaching technique is an effective way to help increase comprehension of mathematical terms for ELL students, special needs students, as well as regular education students from second through eighth grades.

Strand: All

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: E8

Level: 6-12, K-5

Math Content + Technology = Students Participating in Their Own Learning (& Happy Teachers)

Time:

11:10 AM

Repeated from 9:10

Karla Brown

Common Sense Math

Location: 115

FACT: Students lack number sense & computation skills

FACT: Math teachers need & want content that builds number sense

FACT: Classroom technology engages students

FACT: High-yield instructional strategies promote permanent learning

Finally, it all works together to consistently develop number sense, mental math strategies, basic computation skills, and vocabulary - at all levels. By using pre-made content AND technology to incorporate high-yield instructional strategies & PLC concepts, students will participate in their own learning. Math teachers get an "edge" with premade, no-teacher-prep content & tools that work with all brands of Interactive White Boards, student "Clickers," Wireless Chalkboard/Tablets, DVD players and more. Let's maximize your classroom technology!! And, even if you have little or no classroom technology, CSM has something for you.

Strand: All

DINAH-MIGHT ADVENTURES Grade Level K-2

Time:

1:30 PM

Rhonda Meyer

Location:

Library

Dr. Meyer will share Dinah Zike's approach to using 3-D interactive graphic organizers to help students understand abstract mathematical concepts. Participants in each hands-on session will make representational tools that are evidence-based, integrative, and kinesthetic as well as grade and ability level appropriate. See and hear curricular integrative examples using easily-created yet powerful Foldables® and manipulatives to make math concepts and processes real and immediate for each grade level.

Strand: All

Code: F1

Level: 2-6

Fun with Food and Fractions

Time:

1:30 PM

Mary Krehbiel

USD 259 Wichita

Location: 114

At this session you will have hands on experience with fractions that will help you teach for understanding. Savor the content as well as the process!

Strand: Number and Computation

Code: F2

Level: All

ALEKS and PassKey

Time:

1:30 PM

Roger Pogue

Location: 112A

PassKey's diagnostic learning system diagnoses the student's weaknesses and assigns lessons to bring them to their appropriate level. With Kansas- and national-correlated lessons in Math, Reading, Writing, Advanced Math, Science, and Social Studies, PassKey has shown that it can help students raise their comprehension and test scores. Passkey is available online or server-delivered. Internet PassKey is economical, easy to manage, has great reporting, and it raises test scores and self-esteem.

Internet-delivered ALEKS is pure math, starting at 3rd grade arithmetic and continuing up through Statistics, Math Review for Calculus and Physics, Chemistry, Fundamentals of Accounting for Corporation or Sole Proprietorship, and Business math. ALEKS's prescriptive artificial intelligence targets what the student is ready to learn. Aligned to the major textbooks and state standards, bilingual ALEKS contains no true-false questions and few multiple choice questions.

Strand: All

Code: F3

Level: 9-12

The Game of Toss Up

Time:

1:30 PM

Bill Weber

Fort Hays State
University

Location: 122

Like most games involving dice, Toss Up provides many opportunities to explore probability within a real-world setting. This session will discuss basic probability calculations to advanced calculations within Toss Up. We will also look at an Excel simulation of the game, which allows students to "play" the game as many times as necessary.

Strand: Data/Statistics/Probability

Code: F4

Level: 6-12

When Are We Ever Going to Use This?

Time:

1:30 PM

Christine Staab

USD 416 Louisburg

Location: 120

Come learn how to incorporate video and other internet resources to answer the question "When are we every going to use this?" Show students how various occupational fields apply mathematics. Start using these resources in your lessons tomorrow!

Strand: Pedagogy

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: F5 Level: K-8

Brain-Based Strategies for Increasing Student Achievement and Performance in Mathematics

Time: 1:30 PM
Repeated from 11:10
Tonji Stringfellow Location: 103
McKII Extended Learning Institute

This workshop is designed to allow teachers to develop the knowledge of specific research “brain-based” strategies that will increase their students’ academic performance and achievement through differentiated instruction and other brain-based activities.

Strand: Pedagogy

Code: F6 Level: 2-6

Motivation and Differentiation Through Games

Time: 1:30 PM
Deb West Location: 111
Diane Campbell
USD 259 Wichita

Everyone knows that students are more engaged and will apply learned skills through games. Come and learn some games that will get your students excited to try out their skills in number and computation. See how easy it is to differentiate for a variety of student needs when using games to provide practice opportunities. Gain some insight into how to manage the differentiated materials along the way.

Strand: Number and Computation

Code: F7 Level: All

Engaging the Brain in Data

Time: 1:30 PM
Joyce Frederiksen Location: 102
SWPRSC

Student engagement is crucial to learning. This break-out will focus on strategies to help students understand Data by getting their brains actively engaged and transforming your classroom into a dynamic classroom.

Strand: Data

Code: F8 Level: 4-8, SPED, Paras, Admin

101 (Well, Almost) Ideas for a Stronger Middle School Classroom

Time: 1:30 PM
Lee Anne Coester Location: 123
Washburn University

Explore topics from organizing your middle level classroom to successful use of calculators to alternative assessment techniques to dealing with discipline problems to the best supply resources. Twenty-five years of teaching squished into one session. Be ready to listen fast!

Strand: Pedagogy

Code: F9 Level: 4-8

Fractions, Decimals, Percents! “Oh My!”

Time: 1:30 PM
Renee Smith Location: 110
ESSDACK

Are your students terrified by fractions, decimals, and percents? “Oh My!” Many students encounter problems in mathematics when they begin the study of fractions. This session is designed to alleviate those fears. Participants will use manipulatives to deepen their conceptual understanding of fractions, decimals, and percents. They will explore the relationships between and the practical applications of these three mathematical concepts.

Strand: Number and Computation

Code: F10 Level: 6-8

How to Teach Math Without Teaching Math

Time: 1:30 PM
Debbie Schulben Location: 118
USD 512 Shawnee Mission

Encouraging non-English teachers to teach reading across the curriculum is usually pretty easy. Encouraging non-math teachers to teach math across the curriculum is much more difficult. This session will explore an approach for encouraging your non-math colleagues to teach overarching skills and concepts that will improve math understanding and performance—without sacrificing their own subject area content! The indicators discussed will be specific to 7th and 8th grade but the philosophy can be applied to any grade level.

Strand: Pedagogy

Code: F11 Level: 6-8, 3-5

A Piece of Cake: Solving Word Problems

Time: 1:30 PM
Repeated from 9:10
Kelly Norman Location: 121
USD 501 Topeka

Learn the problem solving strategy called Model Drawing. This method of tackling word problems originates in Singapore which has repeatedly remained at the top of the world on the TIMSS mathematical achievement test. This strategy is another tool for a student’s toolkit and is a way for them to represent word problems pictorially, organize their thinking and easily find an answer to tough word problems. An understanding of Model Drawing also leads students to have greater success when converting word problems to algebraic expressions as their understanding of math grows from the concrete and pictorial to the abstract in Algebra.

Strand: Number Sense

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: G1 Level: All

Do You Really “Know” What Your Students Know?

Time: 2:30 PM **Allen Sylveseter** **Location:** 117C
USD 501 Topeka

Grades are meant to be a means of communicating a child's strengths and needs and as data to drive instructional decisions. But, do your grading practices truly indicate what our students know, understand, and can do? Let's discuss it!

Strand: Pedagogy

Code: G2 Level: All

National Board Certification is for YOU!

Time: 2:30 PM **Janet Stramel** **Location:** 115
Fort Hays State University

Have you ever thought about National Board Certification? Come hear about the process and get some tips from an NBCT. Walk away with ideas that will help start you on your journey.

Strand: Pedagogy

Code: G 3 Level: All

Panel Discussion: Online Homework in the Classroom

Time: 2:30 PM **Jeff Sadler** **Location:** 106
Fort Hays State University

This session will be used to discuss several online homework systems and the pros and cons of using the various systems in your classroom.

Strand: Pedagogy

Code: G4 Level: 6-8

Fabulous Folding

Time: 2:30 PM **Kathleen Fick** **Location:** 110
Delaware State University

Participants will use paper folding activities to review and investigate geometric vocabulary and concepts. Paper folding is an interdisciplinary, 'hands-on' approach to learning mathematics. Participants will explore the mathematical concepts being taught, creating and discovering with each fabulous fold. The activities shared can be used for grades 6 – 12 and methods of adapting and incorporating these activities for the different grade levels will be discussed. Handouts and materials will be provided.

Strand: Geometry

Code: G5 Level: 9-12

N'Spire Your Students with Problem Solving

Time: 2:30 PM **Connie Schrock** **Location:** 107
Emporia State University

Discover the power of the new TI N'spire to help your students solve real world problems and master the concepts associated with these problems. A problem and activity will be shared from three areas: geometry, algebra, and statistics. Calculators will be provided but the session will focus on the problems you can use in many different settings. The calculators will be used as a tool to solve the problems and enhance the learning of the concept. The first problem will deal with mathematical models that justify relationships. Next we will look at slopes of lines and the concepts associated that inhibit student learning. Finally, we will look at multiple representations associated with data.

Strand: Pedagogy

Code: G6 Level: All

Watch and Talk

Time: 2:30 PM **Margie Hill** **Location:** 119
University of Kansas

Our world is changing and Kansas students need to be prepared to meet that change. At this session we will view bits and pieces from a Public Television broadcast which aired on Sept 23rd. This broadcast featured three different panels (educators, parents, and business representatives) all of whom discussed what they believe should be the educational priorities in Kansas in order for students to be prepared for the 21st Century. We will also discuss what this might mean for the K-16 mathematics classrooms across Kansas.

Strand: All

Code: G7 Level: 9-12

Warning: Math Can Be Fun and Interesting Entertainment Facility Project Connects with Students

Time: 2:30 PM **Rich Wilson** **Location:** 111
USD 501 Topeka

Dream a little, you dreamers! Use Geometer's Sketchpad and your student's imagination in creating an entertainment facility designed to enhance the social scene in your city. Help your students begin to answer the question "Why are we learning this?" by giving them project-based assignments/assessments that help reinforce the concepts of angle measurements, parallel lines, basic transformations, and area and perimeter as well as reinforcing the definitions of quadrilaterals. We culminate our geometry course by building a 3-D model of our vision and doing a class presentation. If you are looking for something to get your students excited and motivated, this project may help.

Strand: Geometry

Session Descriptions

(Use key codes to reference sessions with schedule)

Code: G8

Level: 9-12

Bring Geometry to Life

Time:
2:30 PM

Keith Dreiling
Fort Hays State
University

Location: 122

Geometer's Sketchpad is a powerful drawing program that is ideal for investigating geometry concepts. Sketchpad brings geometry to life, allowing students to learn geometry in a dynamic, interactive environment.

Strand: Geometry

Code: G9

Level: 4-8, SPED,
Paras, Admin

101 (Well, Almost) Ideas for Having Fun Teaching Geometry and Measurement

Time:
2:30 PM

Lee Anne Coester
Washburn University

Location: 123

Teaching and learning geometry and measurement should be fun! Discover manipulatives to make and buy, activities, literature books, games, resources, and real life connections that engage students and support learning.

Strand: Geometry and Measurement

Code: G10

Level: 2-6

Engaging the Brain in Geometry

Time:
2:30 PM

Joyce Frederiksen
SWPRSC

Location: 102

Student engagement is crucial to learning. This break-out will focus on strategies to help students understand Geometry by getting their brains actively engaged and transforming your classroom into a dynamic classroom.

Strand: Geometry

Code: G11

Level: K-6

Just Say "NO" to Worksheets

Time:
2:30 PM

Michelle Flaming
Essdack

Location: 109

Are you looking for creative ways to make your mathematics classroom come alive? Manipulatives are great tools for helping students understand mathematical concepts. For students to really learn the intended content, however, they need the right amount of teacher guidance, challenging questions to ponder during the learning process, and their teacher's belief that he/she can construct his/her own understanding of important mathematical concepts. Participants will experience lessons that are ready for implementation in their classrooms. All lesson plans experienced at this workshop will be aligned with NCTM and Kansas Standards.

Strand: All

Conference Committee Members

Jerry Braun
Kellen Adams
Lisa Colwell
Keith Dreiling
Lorey Dreiling
Desirae Kinderknecht

Amy Mayo
Tom Meagher
Heidi Harper-Wamser
Bill Weber
Tara Wildeman
Lane Young

Conference Exhibitors

Mathjive
Kansas City Audio Visual
E-Instruction/Engaging Technologies
Discovery Toys
The Learning System
Common Sense Math
Dinah Might Adventures
Houghton Mifflin Harcourt / Holt McDougal /
Great Source, Rigby & Steck Vaughn
Heinemann Publishers
Glencoe McGraw-Hill
Carnegie Learning Inc.
McGraw Hill Companies
ALEKS and PassKey Learning

*Exhibitors are located in the Dining Area. Please visit them during your morning and afternoon breaks.