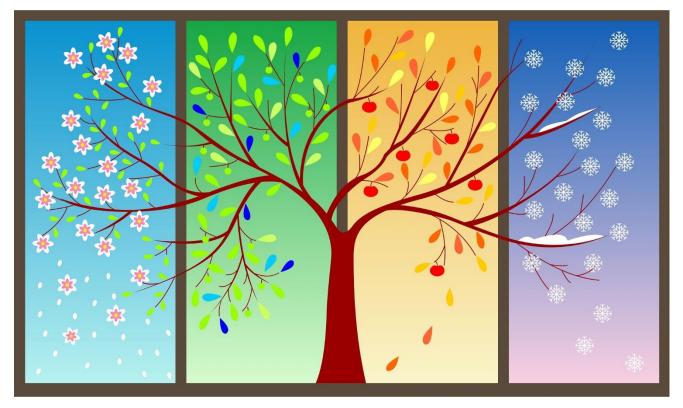
Middle Tennessee Mathematics Teachers Math for All Seasons

February 23rd, 2019

Pope John Paul II High School, Hendersonville, TN



Special thanks to Betty Mayberry and Amanda Peper, Conference Co-Chairs, for their hospitality. We appreciate the use of your wonderful facility and all the help from your Math Dept.

Today's Schedule

7:30-8:00	Registration
8:00-8:50	Session 1
9:00-9:50	Session 2
10:00-10:50	Session 3
11:00-11:50	Session 4
12:00-12:50	Lunch, Business Meeting, Door Prizes
1:00-1:50	Session 5
2:00-2:50	Session 6



	Session 1 (8:00-8:50)	
Room	Session	Audience and Topics
101	Have no fear, Guided Math is here!	K-2
	Ready to move beyond whole group instruction and meet the needs of all students? If yes, this session is for you. We will go through the steps of a guided math lesson. You will leave with some ready to use ideas, sample lessons, suggested websites, and new love for teaching math. Dr. Alisha Hayes, Franklin Road Academy	Number and Operation, Algebra, Geometry/Measurement, Data Analysis, Statistics and Probability, Mathematical Processes, Special Education, Rigor, Real-world Applications
105	Early Math Mentality	K-8, Pre-Service
	This presentation is meant to highlight the importance of building up students' mathematical confidence at an early age.	General Activities, Testing/Review Strategies
	Chelsea McCall, Caleb Marston and Isamar Rachal, Austin Peay State University	
106	Why I Love My Flipped Classroom!	Middle, High
	In this session, I'll describe some of the pros (and cons) of using a flipped classroom and share some of the technology and tools you can use to flip your classroom. Bring questions!!	General Activities
	Stacey McGee, Centennial High School Stacey.mcgee@wcs.edu	
108	Statistics in the Middle	Middle
	Let's explore inference and other middle school stats standards with engaging activities.	Data Analysis, Statistics and Probability, Real-World Applications
	Alice Carson, Powell High School alice.carson@knoxschools.org	rippications
206	When Will I Ever Use This? Benchmaking 101	Middle
	Participants will build a ¼ scale model wooden park bench. Concepts used are complementary angles, fractional scales, transferring measurements, scaling lengths, interpreting diagrams, etc.	Geometry/Measurement, STEM, Real World Applications, Project Based Learning
	Samuel Ligo, Austin Peay State University ligos@apsu.edu	
211	Linear Systems, Inequalities, and Programming	Middle, High
	Helping students make sense of Linear systems, Linear Inequalities, and Linear Programming using some no-tech methods, low-tech methods, and technology.	Algebra
	Sharon Glenn, Ensworth High School glenns@ensworth.com	
210	Investigating the Conic Sections through Multiple Representations	High
	Learn how to construct the conic sections using various methods that demonstrate the underlying structure of the conic sessions. Participants will use Patty Paper, Technology, String, and Graph paper to construct each of the four conic sections.	Algebra
	Sheila Horstman, Clarksville High School Sheila.horstman@cmcss.net	

	Session 2 (9:00-9:50)	
Room	Session	Audience and Topics
102	Looking for Principles of Meaningful Counting	K-2, Pre-Service
	Participants will discuss principles of meaningful counting such as cardinality and abstraction. We will watch videos of young children counting to look for these characteristics.	Number and Operation
	Audrey Bullock, Austin Peay State University, bullocka@apsu.edu	
105	Early Math Mentality	K-8, Pre-Service
	This presentation is meant to highlight the importance of building up students' mathematical confidence at an early age.	General Activities, Testing/Review
	Chelsea McCall, Caleb Marston and Isamar Rachal, Austin Peay State University	Strategies
107	Middle School Stats Is Where It's At!	Middle
	Activities that build students' understanding of selected Grade 6, 7, and 8 standards in the Statistics and Probability strand.	Data Analysis, Statistics, and Probability
	Jennifer Yantz, Austin Peay State University, yantzj@apsu.edu Christina Ploeckelman, Richview Middle School, Christina.ploeckelman@cmcss.net	
108	Come Waltz with Me	High
	Music and math have a relationship. Let's learn this relationship and code a song.	Algebra, STEM, Real
	Alice Carson, Powell High School, alice.carson@knoxschools.org	World Applications
201	What I Wish I Would Have Known About Data Analysis	K-12, College, Pre-
	Overwhelmed by data? This session focuses on strategies to help with data analysis building skills in Excel to support when digging through formative and summative assessment data.	Service, General Data Analysis, Statistics, and Probability, Teacher
	Jacqueline Montileone, Tennessee Department of Education Jacqueline.Montileone@tn.gov	Data
202	Math Activities That Aren't Another Worksheet	Middle, High
	We will discuss how to effectively implement activities that aren't worksheets in the secondary classroom and how it can help you and your students	General Activities
	Lindsay Wall Newsom, Creek Wood High School, lwall@dcbe.org	
206	When Will I Ever Use This? Benchmaking 101	Middle
	Participants will build a ¼ scale model wooden park bench. Concepts used are complementary angles, fractional scales, transferring measurements, scaling lengths, interpreting diagrams, etc.	Geometry/Measurement STEM, Real World Applications, Project
	Samuel Ligo, Austin Peay State University, ligos@apsu.edu	Based Learning
208	Engaging Students with Fraction Tasks and Models	Middle, Pre-Service
	Come explore rich fraction tasks that engage students with models without taking the entire class period. Tupelo township, movie theaters, and flower garden contexts abound!	Number and Operation, Mathematical Processes Teacher of Teachers
	Holly Anthony, Tennessee Tech University, hanthony@tntech.edu	
211	Linear Systems, Inequalities, and Programming	Middle, High
	Helping students make sense of Linear systems, Linear Inequalities, and Linear Programming using some no-tech methods, low-tech methods, and technology.	Algebra
	Sharon Glenn, Ensworth High School, glenns@ensworth.com	

	Session 3 (10:00-10:50)	
Room	Session	Audience and Topics
209	Managing Math Block for Elementary Students	К-2
	This session will look at manageable methods to organize an elementary math block and make math FUN!	General Activities, Teacher of Teachers
	Kiersten Wyatt, Kenrose Elementary School, Kiersten.wyatt@wcs.edu	
101	Froggy Fun: Leaping into Numbers, Operations, and Estimation	3-5
	Use science as a context for teaching math! Join us to measure and analyze the jumping abilities of origami frogs while exploring force and motion.	Number and Operation, Geometry/Measurement
	Jennifer Meadows, Tennessee Tech University, jrmeadows@tntech.edu Meghan Clemons, Tennessee Tech University	STEM, Mathematical Processes, General Activities
102	Q&A Session for Pre-Service Teachers	Pre-Service
	This session will be an open discussion of questions pre-service teachers may have about anything teaching-related, such as testing requirements, edTPA, or applying for jobs.	General Activities
	Audrey Bullock, Jackie Vogel and Rebecca Darrough, Austin Peay State University bullocka@apsu.edu, vogelj@apsu.edu, darroughr@apsu.edu	
106	Taking Math Online	Middle, High
	Using Google forms for Homework, creating online tests with Schoology and Using other iPad apps for How to Videos	General Activities, Real World Applications
	Lauren Miller, H G Hill Middle School, lauren.miller@mnps.org	
107	Middle School Stats Is Where It's At!	Middle
	Activities that build students' understanding of selected Grade 6, 7, and 8 standards in the Statistics and Probability strand.	Data Analysis, Statistics, and Probability
	Jennifer Yantz, Austin Peay State University, yantzj@apsu.edu Christina Ploeckelman, Richview Middle School, Christina.ploeckelman@cmcss.net	
201	What I Wish I Would Have Known About Data Analysis	K-12, College, Pre-
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202	Math Activities That Aren't Another Worksheet	Middle, High
	We will discuss how to effectively implement activities that aren't worksheets in the secondary classroom and how it can help you and your students	General Activities
	Lindsay Wall Newsom, Creek Wood High School, lwall@dcbe.org	
203	Maximizing Outcomes in a Supported Classroom	Middle High
	This session will look at ways to build the relationship between subject-area teachers and their support teachers/teacher assistants, and how to leverage that relationship to help students (especially those with IEPs/504s)	General Activities, Special Education
	Clark Ramey, Centennial High School, clarkr@wcs.edu	
210	Investigating the Conic Sections through Multiple Representations	High
	Learn how to construct the conic sections using various methods that demonstrate the underlying structure of the conic sessions. Participants will use Patty Paper, Technology, String, and Graph paper to construct each of the four conic sections.	Algebra
	Sheila Horstman, Clarksville High School, Sheila.horstman@cmcss.net	

	Session 4 (11:00-11:50)	
Room	Session	Audience and Topics
101	Build It: Combining Math, Science, Engineering and Art!	К-2
	Introduce students to the fascinating world of architecture using Iggy Peck, Architect. Join us to learn about geometry and build structures out of everyday materials.	Geometry/Measurement , STEM, Real World Applications
	Jennifer Meadows, Tennessee Tech University jrmeadows@tntech.edu Meghan Clemons	
209	Managing Math Block for Elementary Students	К-2
	This session will look at manageable methods to organize an elementary math block and make math FUN!	General Activities, Teacher of Teachers
	Kiersten Wyatt, Kenrose Elementary School Kiersten.wyatt@wcs.edu	
105	Geometry Share Session	Middle, High
	Everyone will need to bring at least one (hopefully more) geometry projects that you do with your class and be willing to share with the group these projects. If you have a rubric for the project, please bring it.	Geometry/Measurement
	Pamela Heintzman, Goodpasture Christian High School pheintzman@goodpasture.org	
106	Taking Math Online	Middle, High
	Using Google forms for Homework, creating online tests with Schoology and Using other iPad apps for How to Videos	General Activities, Real World Applications
	Lauren Miller, H G Hill Middle School lauren.miller@mnps.org	
108	The Art of Questioning	K-12, College, Pre-
	Asking quality questions plays a central role in promoting discourse and stimulating mathematical thinking among student. This session will help you to better assess your current state of question posing and offer insights on how to make your questioning techniques even more effective.	Service, General Mathematical Processes, General Activities, Teacher of Teachers
	Sister Cecilia Anne Wanner, Middle Tennessee State University sjw3u@mtmail.mtsu.edu	
203	Grading Math Skills, not English Skills	Middle, High
	This session will discuss strategies and resources that help English Learners find success in a math class without compromising standards or rigor.	General Activities
	Clark Ramey, Centennial High School clarkr@wcs.edu	
206	ALEKS – A Formative and Summative Game-Changer	Middle, High
	Looking for a deeper dive into how to both remediate and advance students simultaneously? This is it!	Algebra, Special Education,
	Monica Laird, Fairview High School monicalaird@hotmail.com	Testing/Review Strategies, Technology

	Session 5 (1:00-1:50)		
Room	Session	Audience and Topics	
101	Number Sense with Place Value Lessons	K-5, Pre-Service, General	
	The basics of number sense with unique place value lessons involving movement, multiplication, decimals, and games. Handouts and book recommendations.	Number and Operation, General Activities,	
	Wendy Comer, Crockett Elementary School wendyc@wcs.edu	Teacher of Teachers, Real-World Applications	
102	Mathematical Mindset – Book Study	Middle, High	
	Join us for an online book study of Jo Boaler's Mathematical Mindsets: Unleashing Students' Potential through Creative Math, Inspiring Messages, and Innovative Teaching.	Professional Development	
	Lois Coles, Brentwood Middle School loisc@wcs.edu		
107	TI-84 as a Tool for Teaching Mathematics—Basics & Beyond	Middle, High	
	Beyond computation & graphing—we will use images, piecewise functions, graph databases, APPS, and programs to support student understanding and concept development.	Algebra	
	Ruth Casey, Teachers Teaching with Technology rcaseyky@gmail.com		
108	Free-Response Questions: Student Self-Assessment	High	
	This session will focus on changing the conversation in Statistics from an argument about scores to students reflecting on their own mastery of the topic.	Data Analysis, Statistics, and Probability, Math	
	Lisa Elliott, West Creek High School lisa.elliott@cmcss.net	Practice Standards (especially #3)	
201	Managing the High School Math Classroom: Brainstorming Session	Middle, High, Pre-	
	Join us at this session to be presented with successful math classroom management tools from the speaker as well as to offer up your own ideas!	Service General Activities,	
	Samantha Fletcher, Dekalb County High School	Classroom Management	
	samanthafletcher@dekalbschools.net	Iliah	
202	Algebra 2 Ideas for an Awesome Scheduled Observation Three Algebra 2 ideas for first semester lessons that engage students and make content	High Algebra, Rigor, Real-	
	personally meaningful and relevant to them. Get those TEAM rubric 5's!	World Applications	
	Patti Castle, Franklin High School patriciac1@wcs.edu		
206	Math Technology – Are you up to date?	3-12, College, Pre-	
	Are you interested in finding out about new technology you could be using in your classroom? Hear how three teachers ranging from upper elementary to high school are integrating technology in their mathematics classrooms. Please bring your computers, if possible.	Service STEM, General Activities, Testing/Review	
	Lindsey Spathelf, West Creek Middle School Kelsey Hill, McEwen High School Alissa Rather, Liberty Elementary School	Strategies, Rigor, Project Based Learning	
106	This is a double session from 1:00-2:50	3-12	
	Using Desmos Activity Builder to Increase Engagement and Feedback	Number and Operation, Algebra,	
	Explore readymade Desmos Activity Builders that support conceptual understanding. Learn to create Desmos Activity Builders and how to use them to increase student engagement and enhance teacher feedback.	Geometry/Measurement, Data Analysis, Statistics and Probability,	
	Please bring your laptop and a digital copy of a card sort or other resource you plan to use in your classroom soon, if possible!	Mathematical Processes, General Activities, Testing/Review	
	Christina Ploeckelman, Susan Shaffer and Kimberly Dennis, Richview Middle School christina.ploeckelman@cmcss.net susan.shaffer@cmcss.net	Strategies	

	Session 6 (2:00-2:50)	
Room	Session	Audience and Topics
101	Number Sense with Place Value Lessons	K-5, Pre-Service, General
	The basics of number sense with unique place value lessons involving movement, multiplication, decimals, and games. Handouts and book recommendations. Wendy Comer, Crockett Elementary School wendyc@wcs.edu	Number and Operation, General Activities, Teacher of Teachers, Real-World Applications
107	TI-84 as a Tool for Teaching Mathematics—Basics & Beyond	Middle, High
,	Beyond computation & graphing—we will use images, piecewise functions, graph databases, APPS, and programs to support student understanding and concept development.	Algebra
	Ruth Casey, Teachers Teaching with Technology rcaseyky@gmail.com	
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	This session will focus on changing the conversation in Statistics from an argument about scores to students reflecting on their own mastery of the topic.	Data Analysis, Statistics, and Probability, Math
	Lisa Elliott, West Creek High School lisa.elliott@cmcss.net	Practice Standards (especially #3)
201	Managing the High School Math Classroom: Brainstorming Session	Middle, High, Pre-
	Join us at this session to be presented with successful math classroom management tools from the speaker as well as to offer up your own ideas!	Service General Activities,
	Samantha Fletcher, Dekalb County High School samanthafletcher@dekalbschools.net	Classroom Management
202	Algebra 2 Ideas for an Awesome Scheduled Observation	High
	Three Algebra 2 ideas for first semester lessons that engage students and make content personally meaningful and relevant to them. Get those TEAM rubric 5's!	Algebra, Rigor, Real- World Applications
	Patti Castle, Franklin High School patriciac1@wcs.edu	
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	Explore readymade Desmos Activity Builders that support conceptual understanding. Learn to create Desmos Activity Builders and how to use them to increase student engagement and enhance teacher feedback.	Geometry/Measurement, Data Analysis, Statistics and Probability, Mathematical Processes, General Activities,
	Please bring your laptop and a digital copy of a card sort or other resource you plan to use in your classroom soon, if possible!	
	Christina Ploeckelman, Susan Shaffer and Kimberly Dennis, Richview Middle School christina.ploeckelman@cmcss.net susan.shaffer@cmcss.net	Testing/Review Strategies

Professional Development Credit Signature Sheet

Name: ______

I attended the following sessions at the 2019 Middle Tennessee Mathematics Teachers Conference "Math for All Seasons" at Pope John Paul II High School in Hendersonville, TN on February 23rd, 2019. Each session was approximately one hour long.

Presenter Signature	

Total Hours of PD Credit: _____