Conference Program 2022

Saturday, June 4th (8:30-3:30)

Norman High School

911 West Main Street Norman, OK 73069

www.okctm.org

8:00 - 8:30	**Check in & Registration** *Breakfast Snacks provided by PAEMST*	**Main Entrance** **Cafeteria Commons**
8:30 - 9:15	**Keynote Speaker, Sarah Carter**	**Theater**
9:30 - 10:20	**Session1**	**700 hallway**
10:30-11:20	**Session 2**	**700 hallway**
11:30 - 1:00	**Lunch**	**Lunch on own, food truck**
1:00 - 1:50	**Session 3**	**700 hallway**
2:00 - 2:50	**Session 4**	**700 hallway**
3:00 - 3:45	**General Meeting, Elections & Door Prizes**	**Theater**
3:45 - 4:30	**OCTM Board Meeting**	**Theater**

Vendors in hallway between Library, 700 hall and Main Entrance

Program Color Code: K-5, 6-12, K-12

Room		Session 1 (9:30-10:20)	Session 2 (10:30-11:20)	Session 3 (1:00-1:50)	Session 4 (2:00-2:50)
702 (library)		x	**Jill Davis & Darlinda Cassel (K-12)** University of Central Oklahoma	**Nancy Trent (9-12)** Ada High School	**Paul Howard (9-12)** Oklahoma Christian University
		x	Writing & Reviewing for the Oklahoma Journal of School Mathematics	Function Selfie Project	Using Open Source Textbook for Precalculus/ Trigonometry Courses
703 (library)		**Gena Barnhill (3-12)** OSDE, **Angie Ledgerwood & Donna Hogan**, OSDE Oklahoma EXCEL	**Gena Barnhill (K-12)** OSDE, **Timothy Collier, Pamela Donica & Rebecca Grider** OSDE Oklahoma EXCEL	**Karen Zwanch (6-8)** Oklahoma State University	**David Tompkins (K-12)** Eastern New Mexico Univ **& Sheri Tompkins,** NM Military Academy
		Use Mathematical Modeling to Make Everyone Mathematicians	Accelerate Student Achievement w/ Puzzle Problems	Reenvisioning Virtual & Physical Algebra Tiles for Teaching Integers	The Power of Previews: Students Mastering Difficult Math Skills w/ Ease
704/705 Double Class		**Kate Raymond (6-12)** University of Oklahoma	**Sarah Carter (6-12)** Coweta High School	**Andrea Wood (K-8)** Mid-Del Public Schools	**Rachel Bates (6-12)** State Regents for Higher Education, **Anthony Purcell & Bridget Minden** OSDE
		Leveraging Students' Interests in Justice to Explore Mathematical Concepts and Representations	Engaging Students Through Hands-On Data Collection Activities	Let's Give Them Something to Talk About	Math Pathways Understanding Secondary & Post-Secondary Opportunities
706		**Brigit Minden (6-12)** OSDE	**Brigit Minden (6-12)** OSDE	x	**Tiesa Maltby (6-12)** Enid Public Schools
		Understanding Students' Geometric Thinking	Utilizing the Oklahoma Math Curriculum Frameworks in your classroom	x	An Introduction to Delta Math
707		**Anthony Purcell (6-8)** OSDE	**Anthony Purcell (K-12)** OSDE	x	x
		College Career and High School Math Readiness	Acceleration vs. Remediation	x	x

Room		Session 1 (9:30-10:20)	Session 2 (10:30-11:20)	Session 3 (1:00-1:50)	Session 4 (2:00-2:50)
708		**Jessica Tracy (K-12)** Mustang North Middle School	**Jessica Tracy (K-12)** Mustang North Middle School	**Katelyn Weese (6-8)** Sallisaw PS	**Katelyn Weese (6-12)** Sallisaw PS
		Student Tracking	Creating Digital Activities	STEM Career Exposure in Mathematics Curriculum	Low-Tech Manipulatives for the Math Classroom
709		x	**Melynee Naegele (K-12)** Will Rogers JH, Claremore	**Josh Britton (6-12)** Get More Math	**Josh Britton (3-12)** Get More Math
		x	Belonging Centered Instruction & Okla Academic Standards	Algebra for Everyone: Conceptual Strength Through “Discovery Light”	Break the Forgetting Cycle: Long-Term Mastery with GMM
710		**Kelly Reddin (K-2)** Inspiring Your Creativity LLC	**Kelly Reddin (3-5)** Inspiring Your Creativity LLC	**Holly Wilson (K-5)** Britton Elementary IT OKCPS	**Holly Wilson (K-5)** Britton Elementary IT OKCPS
		Hands-on Brick Math for Addition & Subtraction	Hands-on Brick Math for Multiplication & Division	Dice Games for the math world	Dice Games for the math world
711		**Mary Brese (6-12)** Brink JH Moore PS/TI	**Mary Brese (6-8)** Brink JH Moore PS/TI	**Mary Brese (6-12)** Brink JH Moore PS/TI	**Mary Brese (6-12)** Brink JH Moore PS
		From Pythagorean to Distance	Data Analysis & Measure of Central Tendencies Using TI-30XS MultiView Scientific Calculator	Solving Equations Using Graphing on a Graphing Calculator	eGlass
712		**Elayne Bowman (K-12)** Retired	**Mallory Dyer (9-12),** Derivita, **Teanna Russ,** Norman PS	**Sherri Abel (6-12)** Derivita	**Telannia Norfar (K-12)** NW Classen High School
		Reticence to Change in Mathematics Education: Why is Lasting Systemic Change Difficult to Attain?	Getting to know Derivita: A Weapon for Math Instruction	Increasing Discourse and Engagement in the Classroom (5 Practices)	Building Thinking Classrooms

Program Color Code: K-5, 6-12, K-12

Keynote Speaker - Sarah Carter

Sarah teaches high school math in her hometown of Coweta, OK. She is passionate about teaching math in a creative, hands-on manner and equipping other teachers to do the same.

Carter regularly leads professional development for other teachers and writes a popular blog for math teachers called Math = Love. Through her blog, she shares hundreds of free printable resources with teachers around the world. Carter was named one of NPR's 50 Great Teachers in 2015 and was a 2018 finalist for Oklahoma Teacher of the Year.

https://mathequalslove.net

OCTM

www.okctm.org

Lunch: 11:30-1:00 on your own

Food Truck Available @ Norman High

The Meating Place

Can bring it inside and sit in the Cafeteria Commons.

Walking Food locations:

Old School Bagel Cafe - 710 West Main Street #100
Sandro's Pizza and Pasta - 914 West Main Street
Taco Casa - 731 West Main Street

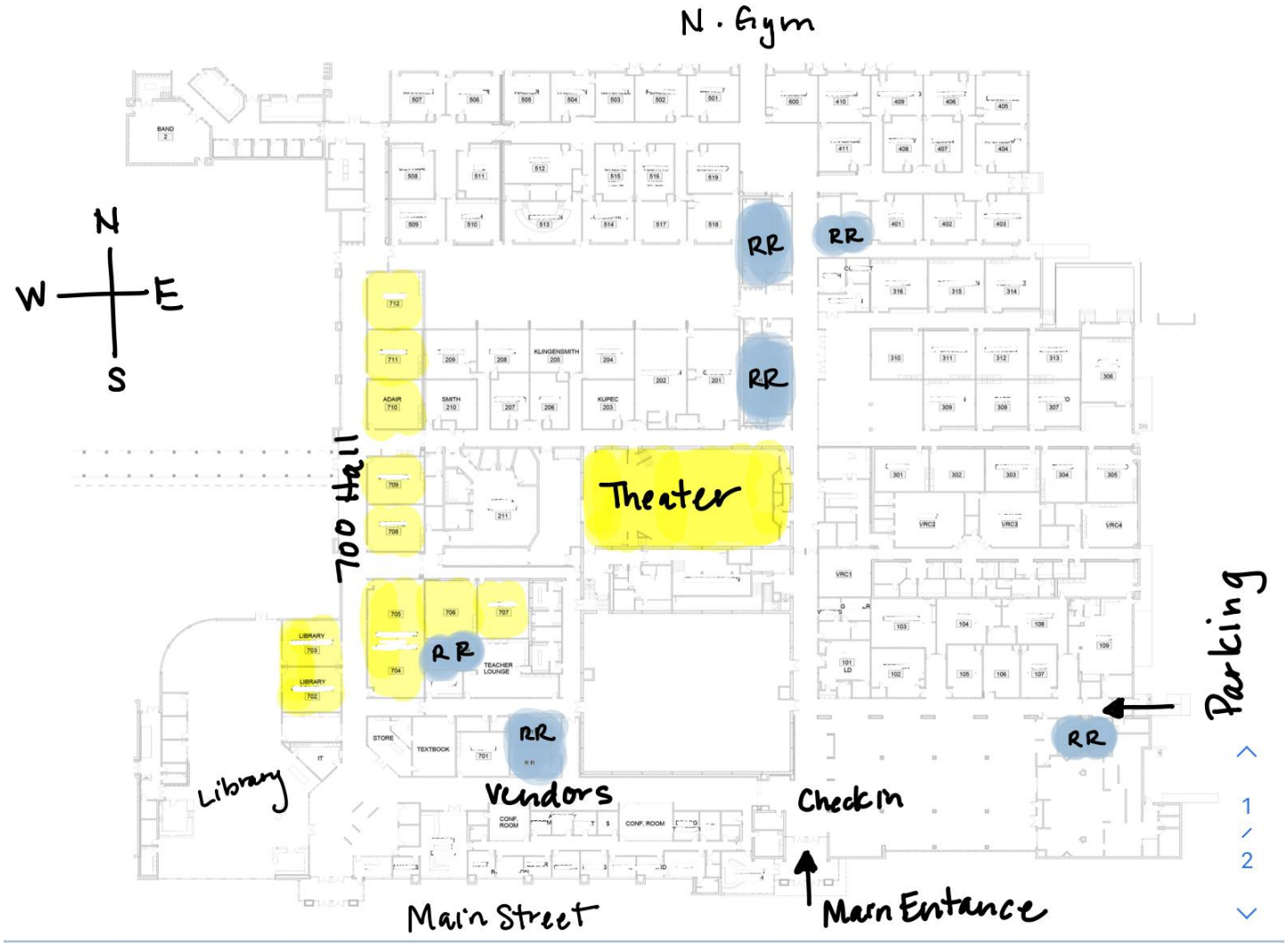
Close Food Locations West, towards I-35:

Sooner Dairy Lunch - 1820 West Main Street
Wendy's - 1908 West Main Street
Chick-fil-A - 3351 West Main Street
Subway - 2339 West Main Street
La Baguette Bakery and Cafe - 2100 West Main Street
What-A-Burger - 2424 West Main Street
Arby's - 2490 West Main Street
Panera Bread- 2200 West Main Street
Freddy's Frozen Custard and Steakburger - 2403 West Main #110
Norman High School Map - Main Building

Close Food Locations East, toward Downtown Norman:

The Earth, Natural Foods - 309 South Flood Ave
Midway Deli & Market - 601 West Eufaula Street
Sam's Southern Eatery - 408 West Main Street
Tino's Italian Eats and Sweets - 209 West Main Street
The Garage - 307 East Main Street

911 West Main Street



Yellow - classrooms & theater we are using, **Blue** - Restrooms

Full Session Descriptions:

Room		Session 1 (9:30-10:20)
703 (library)		**Gena Barnhill (3-12),** OSDE, **Angie Ledgerwood & Donna Hogan,** Oklahoma EXCEL
		Use Mathematical Modeling to Make Everyone Mathematicians
		You see it in the new math standards for our state, but what exactly is mathematical modeling? How will it impact my students and how would it look in my classroom? Get the answers to these questions and more from teachers who have been focused on increasing student achievement by consistently implementing mathematical modeling. This interactive workshop will break down the modeling process, discuss how to assess models, and give tips from classrooms that have made this shift in learning.
704/705 Double		**Kate Raymond (6-12),** University of Oklahoma
		Leveraging Students' Interests in Justice to Explore Mathematical Concepts and Representations
		Students are often focused on and interested in understanding justice and fairness. Their interests can span from ensuring equal distribution of class treats, to critiquing school policies about grades or absences, to debating national issues of environmental policies, taxation, and criminal reform. Engaging students with such issues supports them in becoming mathematically literate and critical consumers of mathematical arguments. This session will provide short, adaptable activities that can be used to explore mathematical understandings while providing a context in which students can think critically about justice issues. Activities will develop conceptual understanding of algebraic, statistical, and geometric concepts.

706		**Brigit Minden (6-12),** OSDE
		Understanding Students' Geometric Thinking
		Discover how to encourage geometric thinking in secondary students using OKMath Frameworks and OAS-M. Explore the 5 levels of the Van Hiele Model of Geometric Thinking and how to provide support for students at each level.
707		**Anthony Purcell (6-8),** OSDE
		College Career and High School Math Readiness
		The Oklahoma State Department of Education has worked with the Southern Regional Education Board to create math courses that help students develop a deeper understanding of mathematical concepts to bridge unfinished learning prior to Algebra I and from high school to college. Attend this session to discover how to bring these courses to your school and district.
708		**Jessica Tracy (K-12),** Mustang North Middle School
		Student Tracking
		Ways to have students track their data and keep up with it yourself too.
710		**Kelly Reddin (K-2),** Inspiring Your Creativity LLC
		Hands-on Brick Math for Addition & Subtraction
		Get a taste of how you can have students comprehending the process of addition and subtraction, transferring hands-on knowledge to paper and pencil and their brains so they can verbally explain the process as well as determine correct answers. This powerful tool is one more way you can reach students, not one more thing to do. Be amazed at how well students learn the vocabulary and comprehend the concepts.

711		**Mary Brese (6-12),** Brink JH Moore PS/TI
		From Pythagorean to Distance
		After students learn how Pythagorean Theorem applies to a right triangle, this activity uses the coordinate plane to help them derive the distance formula. Starting with a triangle with the right angle vertex at the origin, students will transition from seeing a right triangle to only using the coordinates of the hypotenuse, to finally developing the distance formula. This directly applies to: PA.GM.1.2 Use the Pythagorean Theorem to find the distance between any two points in a coordinate plane. This is a hands-on activity, which allows participants to see how to present this lesson in the classroom.
712		**Elayne Bowman (K-12),** Retired Math Educator
		Reticence to Change in Mathematics Education: Why is Lasting Systemic Change Difficult to Attain?
		After over 100 years in mathematics education, we continue to return to the same questions that were being asked over a century ago. Lasting systemic change in mathematics education requires stamina, persistence, and an understanding of the complex interconnection between culture, schools, and curriculum. Effective change requires communication and collaboration among all stakeholders. This session will examine trends facing mathematics classroom teachers and encourage discussion for how we might establish lasting systemic change for our profession.

Room		Session 2 (10:30-11:20)
702 (library)		**Jill Davis & Darlinda Cassel (K-12),** University of Central Oklahoma, OCTM Journal Editors
		Writing & Reviewing for the Oklahoma Journal of School Mathematics
		Are you interested in writing for the Oklahoma Journal of School Mathematics but are not sure where to begin? Do you want to get started by reviewing manuscripts? Join us to learn more about the journal and publishing process. We are looking for research and practical articles, as well as book and resource reviews. We will share tips for writing and reviewing as well as answer your questions.

703 (library)		**Gena Barnhill (K-12),** OSDE & **Timothy Collier, Pamela Donica & Rebecca Grider** Oklahoma EXCEL
		Accelerate Student Achievement w/ Puzzle Problems
		Improvement Fellows with the Oklahoma Excel project will share their experiences with using Puzzle Problems in the classroom. Learn how implementing these strategies changed their pedagogy and increased student involvement and achievement. Find out how a simple and short routine can make a big impact in your students' justification and reasoning. Walk away with ready to go strategies and puzzles, and the knowledge that your students will be excited about math!
704/705 Double		**Sarah Carter (6-12),** Coweta High School
		Engaging Students Through Hands-On Data Collection Activities
		Looking for ways to engage students in math class? This session will explore a plethora of hands-on data collection ideas that can be used in almost any secondary math classroom. Learn to teach mean, median, mode, and range with a fun dice game. Build scatter plots using data collected from dice, candy, and linking cubes. Use quadratic regression to land a straw rocket on a given target. These are just a few of the engaging activities you will want to use in your classroom. This session addresses various OAS Data and Probability standards for 6th Grade through Pre-Calculus.
706		**Brigit Minden (6-12),** OSDE
		Utilizing the Oklahoma Math Curriculum Frameworks in your classroom
		Discover an amazing resource to help teachers better understand the Oklahoma Academic Standards for Math and implement them with fidelity. Come get an in-depth look at the math frameworks and learn how they can be utilized within your classroom.

707		**Anthony Purcell (K-12),** OSDE
		Acceleration vs. Remediation
		When students have unfinished learning, there are several different approaches. Remediation focuses on the past and oftentimes is not beneficial for the students. Acceleration practices allow students to continue to learn new material while supplementing missed concepts into their current curriculum. Discover how to make a simple change in your classroom for greater gains in student learning.
708		**Jessica Tracy (K-12),** Mustang North Middle School
		Creating Digital Activities
		How to create a variety of engaging digital resources for your students.
709		**Melynee Naegele (K-12),** Will Rogers JH, Claremore
		Belonging Centered Instruction & Okla Academic Standards
		Participants will explore meaningful ways to think about and connect with their students and their backgrounds. They will explore instructional practices that have the potential to disrupt structural and interpersonal inequity, and restore a sense of belonging and worth in the classroom.
710		**Kelly Reddin (3-5),** Inspiring Your Creativity LLC
		Hands-on Brick Math for Multiplication & Division
		Have students show you their work and their thought process as they succeed with multiplication and division. They will be using correct vocabulary as they transfer the knowledge from one form to another and make connections between division and subtraction, division and multiplication, and addition and multiplication. You will have a tool that you can use with your regular class as well as with students who need a little more help.

711		**Mary Brese (6-8),** Brink JH Moore PS, Texas Instruments
		Data Analysis & Measure of Central Tendencies Using TI-30XS MultiView Scientific Calculator
		Starting in 6th grade (6.D.1), moving into 7th grade (7.D.1.1) and continuing in Pre-Algebra (PA.D.1.1 and PA.D.1.2) students learn about single variable data. I will present a fun activity that is interactive for participants (students) and includes using the TI30-XS scientific calculator to understand topics of mean, median, mode and range. The activity shows the importance of 5-Number Summary as it applies to Box & Whisker Plots and Outliers, including how adding new data or deleting data changes the analysis. If time permits, we will look at how to use the calculator with frequency tables and possibly, scatter plots.
209		**Mallory Dyer (9-12),** Derivita, **Teanna Russ,** Norman PS
		Getting to know Derivita: A Weapon for Math Instruction
		Derivita provides the flexibility that math teachers need to create student-centered learning experiences with powerful tools that work in Canvas anytime, anywhere, and on any device. In this session, we will walk through how the Norman teachers have used Derivita to create, curate, manage, and deploy activities, assignments, and assessments directly within their Canvas courses. You'll also get a first look at what's new in Derivita including: simplified grading, new assignment settings, multi-modal inputs (including sketching and drawing), and new reporting capabilities for common assessments!

Room		Session 3 (1:00-1:50)
702 (library)		**Nancy Trent (9-12),** Ada High School
		Function Selfie Project
		This project was so engaging that students were caught working on it in other classes. Students used a selfie picture and an online free graphing calculator to create a graph of their face using function transformations and restrictions of domain or range. This session will provide the rubric and setup you can use and modify to fit Algebra 1 through Calculus. Please bring a device to start your own selfie graph.

703 (library)		**Karen Zwanch (6-8),** Oklahoma State University
		Reenvisioning Virtual & Physical Algebra Tiles for Teaching Integers
		Teachers will participate in hands-on Algeblocks activities applicable to teaching grades 5-9 integer arithmetic. Discussion and activities will include meanings for integers and inter arithmetic, and strategies for hands-on explorations of the operations that support student student invention of integer arithmetic algorithms.
704/705 Double		**Andrea Wood (K-8),** Mid-Del Public Schools
		Let's Give Them Something to Talk About
		This session will feature short print and digital routines and activities to get students thinking, discussing, making connections, and building number sense with just the right amount of struggle. Walk away with ideas to implement immediately with little prep time. The strategies are centered on Dr. John Hattie's high impact strategies of discussion, feedback, and spaced vs. mass practice. (Please bring a device)
708		**Katelyn Weese (6-8),** Sallisaw PS
		STEM Career Exposure in Mathematics Curriculum
		STEM Careers and merging their concepts with the math curriculum to encourage interest in those fields. Math Standards Covered: 7.N.2.3, 7.A.2.4, 7.D.1.2, 7.D.2.3, PA.A.4, A1.F.1.1, A1.F.1.3, A1.D.1.1, and more.
709		**Josh Britton (6-12),** Get More Math
		Algebra for Everyone: Conceptual Strength Through “Discovery Light”
		Too often, students experience Algebra as a series of obscure processes governed by teacher-provided formulas. Let’s change this! This session explores ways that students can build meaning through discovery of Algebraic tools and reasoning.

710		**Holly Wilson (K-5),** Britton Elementary IT, Oklahoma City PS
		Dice Games for the math world
		In this session participants will learn how to incorporate dice games into the daily learning for their students. They will learn games for partners and groups to help with their math computation skills.
711		**Mary Brese (6-12),** Brink JH Moore PS/Texas Instruments
		Solving Equations Using Graphing on a Graphing Calculator
		When solving a single variable equation, students learn to solve for the value of the variable. What is missing is the visual understanding, i.e.) What does it mean, and why is there only one solution to an equation? See how students can use the graphing calculator to solve equations and inequalities, also absolute value equations and inequalities. This is a great introduction to Systems of Equations. We will work with concepts that cover 7th grade (7.A.3), Pre-Algebra (PA.A.4) and in Algebra (A1.A.1 & A1.A.2). Both TI-84 and TI-nspire calculators will be available for participants to use.
712		**Sherri Abel (6-12)** Derivita
		Increasing Discourse and Engagement in the Classroom (5 Practices)
		Issues getting students to talk….mathematically? This session will focus on implementing low floor, high ceiling tasks designed to engage all students, as well as, implementing the 5 practices for orchestrating mathematical discussions (Smith & Stein). You will leave armed to deploy these strategies the very next day. Come prepared to participate!

Room		Session 4 (2:00-2:50)
702 (library)		**Paul Howard (9-12),** Oklahoma Christian University
		Using Open Source Textbook for Precalculus/ Trigonometry Courses
		This presentation addresses using STAX open source textbook for Precalculus and/or Trigonometry courses. STAX open source textbooks are high quality with online versions available at no cost. Printed versions are available from STAX with minimal cost.
703 (library)		**David Tompkins (K-12),** Eastern New Mexico University **& Sheri Tompkins,** New Mexico Military Academy
		The Power of Previews: Students Mastering Difficult Math Skills w/ Ease
		Imagine your students learning the multiplication tables, adding fractions, or graphing equations with ease. What teacher wouldn't give their proverbial left arm for this kind of success? In conjunction with other proven educational strategies, previews offer a level of success that is a step above the plateau we often reach. Through participant engagement, this researched-based presentation focuses on the power of previews and its reciprocal relationship with the mental processes that happen during sleep. It also offers practical and tangible models for implementation, and promotes preparation for next-day implementation.
704/705 Double		**Rachel Bates (6-12)** State Regents for Higher Education & **Anthony Purcell & Bridget Minden,** OSDE
		Math Pathways Understanding Secondary & Post-Secondary Opportunities
		OKSDE and OSRHE presenters will provide attendees with relevant information about secondary mathematics opportunities and post-secondary reforms.

706		**Tiesa Maltby (6-12)** Enid Public Schools
		Introduction to Delta Math
		Delta Math is a free online platform providing practice problems for students. The teacher creates the practice assignments in a user-friendly interface. The website also provides an easy-to-use gradebook with additional features. Come see this alternative to traditional worksheets.
708		**Katelyn Weese (6-12),** Sallisaw PS
		Low-Tech Manipulatives for the Math Classroom
		I will discuss the use of low-tech (and affordable) materials that can serve as manipulatives to enhance any mathematics lesson. I will cover mostly PreAlgebra & Algebra 1 Standards, but most concepts can be adjusted or built off of to accommodate other grade levels.
709		**Josh Britton (3-12),** Get More Math
		Break the Forgetting Cycle: Long-Term Mastery with Get More Math
		By the end of the school year, students have already forgotten many of their hard-won math concepts. How can we break the forgetting cycle and make it stick? In this session, veteran math teacher Josh Britton will share his proven model for driving long-term retention through use of Get More Math software.
710		**Holly Wilson (K-5),** Britton Elementary IT, Oklahoma City PS
		Dice Games for the math world
		In this session participants will learn how to incorporate dice games into the daily learning for their students. They will learn games for partners and groups to help with their math computation skills.

711		**Mary Breese**
		Teaching with eGlass in the Classroom or Virtually
		This session will focus on a new innovative way to teach while you face your students, write,talk, and interact with your students like you have never seen before. Imagine never turning your back to write again! eGlass is an illuminated transparent writing glass that allows you to present lessons to your class in a way that boosts student engagement to unprecedented levels. With a built-in camera that captures your face and writing in the same picture, you can create your own video lessons. Imagine a tool that will help you close the gap. That's eGlass. Join me in this presentation and you can try it for yourself.
712		**Telannia Norfar (K-12),** NW Classen High School, Oklahoma City PS
		Building Thinking Classrooms
		Building Thinking Classrooms was a great book study that Norfar implemented in her classroom. Learn how she introduced it and maintained it in her classroom. Also see how students responded to this way of learning.

OCTM
Oklahoma Council for Teachers of Mathematics

Thank you to: Keynote speaker Sarah Carter, our Presenters, PAEMST for providing Breakfast, all of our Vendors, OCTM Conference Chair - Julia Prise, OCTM Vender & T-shirt Chair- Annetta Hackler, OCTM Conference Program Chair - Julie Klingensmith, OCTM Treasurer - Porctia Tinsley and the entire OCTM Board!

2022 OCTM Vendors:

- **Brick Math**
- **Cengage**
- **CPM**
- **Curriculum Associates**
- **Derivita**
- **Get More Math**
- **Imagine Math**
- **Inspiring Your Creativity**
- **Mu Alpha Theta**
- **NSU Broken Arrow College of Education**
- **OERB**
- **OSU College of Education**
- **OU College of Engineering**
- **Presidential Award of Excellence for Math & Science Teaching**
- **Southern Regional Education Board**
- **Texas Instruments**
- **UCO College of Education**

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Certificate of Participation

This is to certify that

Attended the

Oklahoma Council of Teachers of Mathematics, 2022 Summer Conference

Saturday, June 4th, 2022 8:30am - 3:30pm

Norman High School

911 West Main Street

Norman, Oklahoma 73069

OCTM

Oklahoma Council for Teachers of Mathematics

www.okctm.org

OCTM President - *Melynee Naegele*

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