



AATM on the Move: Yuma Math
 Centennial Middle School
 2650 W 20th St
 Yuma, AZ 85364

Saturday, February 15, 2020
8:30am - 2:00pm

REGISTRATION & COFFEE 8:30	
SESSION 1: 9:00am - 10:00am	
<p>Session 1: 9:00 - 10:00 Audience: Primary</p> <p>Exploring Algebra in the Primary Grades According to needs assessment data, a majority of K-5 teachers surveyed in northern Arizona reported that they do not teach Algebra. What does Algebra look like at the K-5 level? Explore the ways in which we develop our students to be algebraic thinkers even in the early grades.</p> <p><i>Amy Rushall</i> AATM President, Director of NAU Faculty Professional Development Program, Principal Lecturer at NAU Department of Mathematics and Statistics, AML Board</p>	
<p>Session 1: 9:00 - 10:00 Audience: Intermediate</p> <p>Decimals are Fractions, Too! Making sense of decimal concepts and operations requires strong connections with fractions and place value. We will explore fraction and decimal multiplication using concrete and visual models, connected to written work, and grounded in problem solving.</p> <p><i>Kim Rimbey</i> Co-Founder & CEO, KP Mathematics, Executive Director of Curriculum & Assessment for Buckeye Elementary School District, AATM Board Member, AML President-Elect</p>	

Session 1: 9:00 - 10:00

Audience: Middle/High School

Desmos - An introduction to the free Graphing Calculator and so much more. Explore math with Desmos! Plot functions, create tables, add sliders, animate your graphs, and more -- all for free. *Aimed at beginning or novice users of Desmos*, participants will experience first hand how this free tool can enhance learning in their classroom. This highly interactive session requires participants bring their own device- laptop, tablet, iPad, etc.

Kelly Cota

NCTM Representative for AATM, Math Education Specialist for Pinal County ESA



Session 1: 9:00 - 10:00

Audience: Teacher Leaders

Purposeful Pairings: Using Effective Coaching to Inspire Any Palate

Critically diagnose a teacher's need and purposefully pairing the most effective coaching moves.

Chryste Berda

AATM Regional Vice President- Maricopa, AML, NCSM, AAGT Arizona Association for the Gifted and Talented, NAGC National Association for Gifted Children, Curriculum Coordinator & GATE Coordinator for Buckeye Elementary District



SESSION 2: 10:15am - 11:15am

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Audience: Primary

QED: Quick & Easy Differentiation, Ensuring You Meet Students' Needs

Differentiating to meet EVERY student's needs can be daunting and one of the most difficult aspects of lesson planning and execution. But never fear! QEDs (Quick & Easy Differentiation) techniques will help you plan lessons, implement activities and games that are not the typical one-size-fits-all models while promoting growth and higher-level thinking skills for all of your students.

Lori Everson

AATM President-Elect, Everson Educational Services, LLC



Session 2: 10:15 - 11:15

Audience: Intermediate

Let's Give Them Something to Think About! Engaging Students in Cognitively Demanding Math Tasks

Providing students with opportunities to engage in cognitively demanding mathematics tasks help develop critical problem solving skills. In this session, participants will identify barriers that hold students back when it comes to problem solving and evaluate the cognitive demand of mathematics tasks.

Ryann Cagle

Curriculum and Instruction Coordinator for Liberty Elementary School District, AATM Board Member, NCTM, NCSM, AML, ASCD



Session 2: 10:15 - 11:15

Audience: Middle/High School

Using Centers in the Secondary Classroom

Centers or stations are common--even expected--in the primary grades. Have you considered using centers at the middle or high school level? Learn how centers can be implemented in the mathematics classroom beyond the primary grades and how they can support differentiation and student choice.

Amy Rushall

AATM President, Director of NAU Faculty Professional Development Program, Principal Lecturer at NAU Department of Mathematics and Statistics, AML Board



Session 2: 10:15 - 11:15

Audience: Teacher Leaders

Get Those Manipulatives Out of the Closet! ...and Other Coaching Challenges

Collaborative leadership lays the groundwork for classroom transformation. When teacher leaders, coaches, and administrators work together strategically, great things can happen.

Kim Rimbey

Co-Founder & CEO, KP Mathematics, Executive Director of Curriculum & Assessment for Buckeye Elementary School District, AATM Board Member, AML President-Elect



SESSION 3: 11:30am - 12:30pm

Session 3: 11:30 - 12:30

Audience: Primary

Problem Solving with Place Value: 5 Problem Solving Strategies That Directly Connect to Number and Operations

From subitizing to multi-digit operations, place value provides a critical foundation for student success in math. Join us as we explore concrete and visual models, mental strategies, and context problems that make math meaningful in the early years.

Kim Rimbey

Co-Founder & CEO, KP Mathematics, Executive Director of Curriculum & Assessment for Buckeye Elementary School District, AATM Board Member, AML President-Elect



Session 3: 11:30 - 12:30

Audience: Primary/Intermediate

Routines are NOT routine!

Are you tired of the same old math routine? Are you looking for exciting ways to start a math lesson while building conceptual understanding? This session will inspire you by providing low-floor, high-ceiling tasks, in which everyone can engage and succeed. Boost your students' math fluency through short purposeful activities such as Open Middle and 3 Act Tasks. Join me in going beyond mental math computations and "Number of the Day" by thinking deeply and flexibly about core mathematical constructs while engaging in exciting lesson starters!

Carrie Burdon

AATM Regional Vice President- Southern, K-8 Math Professional Development Academic Trainer for Tucson Unified School District, Step Up Teacher Leader for IMPACTS (CRR)



Session 3: 11:30 - 12:30

Audience: Middle/High School

Five Practices for Orchestrating Productive Mathematics Discussions

In this session we will look at using student work to drive discourse in the mathematics classroom. We will also explore selecting good math tasks, monitoring student work and building intentional questioning strategies.

Amy Rushall

AATM President, Director of NAU Faculty Professional Development Program, Principal Lecturer at NAU Department of Mathematics and Statistics, AML Board



Session 3: 11:30 - 12:30

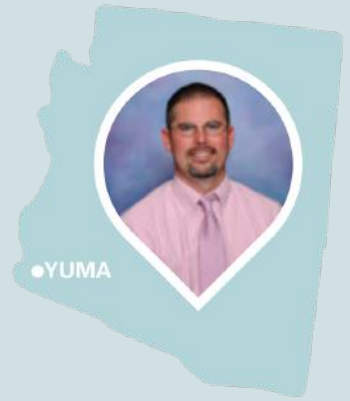
Audience: Teacher Leaders

The Wonder of the Mathematics Classroom

Educators will rediscover (or discover) the wonder and joy in their mathematics classroom! Mathematics is a living, breathing subject full of wonder and delight. We will discuss instructional strategies that ignite our student's curiosity, including the use of rich visuals, unsolved problems, and notice and wonder.

Mike Cagle

Principal, Country Place Leadership Academy, AATM Board Member, ASA, ASCD, NCSM, NCTM



LUNCH: 12:30pm - 1:00pm

KEYNOTE ADDRESS: 1:00pm - 2:00pm

Keynote Address

Do we really mean what we say?

The language and labels we use makes a difference in how we see students and how students see themselves. They affect our interactions with students and our planning for mathematics instruction. Let's engage in thinking deeply about what we say and what we hear others say. Let's consider how we might respond to the language of others, and actions we might take to positively affect students' mathematical identities.

Nora Ramirez

Executive Director, TODOS: Mathematics for ALL, AATM Member, AML Board Member, NCTM, NCSM, AZ STEM Collaborative



Arizona Association of Teachers of Mathematics