WVCTM
Draft Conference Program
March 15 - 16, 2019
Stonewall Jackson Resort, Roanoke, WV

Friday 8:30

Session - 1 | Room - Ballroom 2 | All Grades

Opening Session

Presented by Jeremy Knight ()

Friday 10:00

Session - 2 | Room - Ballroom 2 | Grades K-K

From Counting to Calculus: Hooking Mathematicians at All Grade Levels

Presented by Christopher Danielson ()

Description:We tend to think of the work of calculus students as being very different from that of kindergarteners, but it really shouldn't be so. Furthermore, it has consequences for who has access to and participates in the field—who gets hooked on mathematics, and who does not. All learners can function as mathematicians. We'll examine this claim through tasks and student ideas across the K-12 curriculum.

Friday 11:15

Session - 7 | Room - Greenbrier | Grades K-12

Coding for West Virginia

Presented by Amanda Jelsema (WVU Center for Excellence in STEM Educations CodeWV Program)

This session will give a brief description of what computer science is and why it matters in West Virginia. Participants can also expect to receive an overview of Code.orgs three professional development programs and at least one hands-on lesson demo will be presented to provide participants with lesson experience.

Friday 11:15
Session - 8 | Room - Bluestone | Grades K-12

Making Math Meaningful: Not to many but to ALL!

Presented by Jane Scott (MetaMetrics, INC)

Differentiating math instruction is an essential strategy in helping to prepare all students for their college and career goals. However, educators need time, tools, and resources to be able to differentiate effectively. By using a common scale to measure both student readiness and content materials, differentiation is easily achieved. Come explore these free resources that are aligned to your West Virginia Math Standards and learn what the Quantile Framework for Mathematics can do for you!

Friday 11:15
Session - 26 Room - Tygart Grades K-12

Creating a Learning Environment Through Open Questioning

Presented by Joseph Mastracci (West Virginia Department of Education) and Teresa Hammond(West Virginia Department of Education)

Participants will examine NCTM's Teaching Principles and WV's Mathematical Habits of Mind. Through the techniques being presented, participants will see how the Teaching Principles and Habits of Mind are fostered. Participants will see the aspects of Universal Design for Learning and Differentiated Instruction throughout the presentation. Participants will learn the various types of Open Questioning and how to incorporate these strategies in their classrooms.

Friday 11:15
Session - 500 Room - Restaurant All Grades

FIRST LUNCH

choose only one lunch

Friday 11:15
Session - 6 Room - Summersville Grades K-5

Math + Play = Engagement

Presented by Lynn Baker (Retired-WVDE)

When was the last time you played with a math problem? Participants will engage with problems that will have them thinking and talking like mathematicians. Participants will also acquire ideas as to how to include this type of task into mathematics instruction. Put your mathematician's hat on and get ready to think like a mathematician.

Friday 11:15
Session - 4 Room - Potomac Grades K-2

Hooking into Math Using SeeSaw

Presented by Gayle Allen (Springfield Green Spring Elementary)

Bring your teacher iPad to download SeeSaw and get started on the BEST app this Kindergarten teacher has ever used!

Friday 11:15
Session - 5 Room - Ballroom 2 Grades K-2

Bean Sticks, the In-Between Manipulative

Presented by Dave Kennedy (Shippensburg University of PA)

Bean Sticks are a transitional model for representing Base 10 ideas --- more connected than Bundling Sticks, but more transparent than Base Ten Blocks. Come try them for counting, adding, and subtracting, and learn how to make your own!

Friday 11:15
Session - 9 Room - Pecan Grades 3-8

Hooked on Decimals, Fractions, and Percents

Presented by Roger Bennett (Carnegie Learning)

In this hands-on session participants will be practicing activities to help teach decimals, fractions, and percents. Hints and other activities will be given and shared.

Friday 11:15
Session - 11 Room - Ballroom 1 Grades 6-College

Mountaineer Mathematics Master Teachers (M3T)

Presented by Joanna Burt-Kinderman (Pocahontas County Schools) and Matthew Campbell(West Virginia University)

What if the path to improvement for WVs math classrooms grew from a network of its very best math teachers? M3T, in the planning stages, will support and leverage a network of great 6th-12th grade math teachers to grow better math teaching for our state. Join Joanna, Pocahontas County math coach, and Matt, WVU Secondary Math Ed professor, to explore and contribute to defining the greatest challenges facing our math classrooms and some hopeful, innovative possibilities for improvement at scale.

Friday 11:15
Session - 10 Room - Birch Grades 6-12

Raising Engagement through Cooperative Learning and Partner Discussions

Presented by Craig Mason (Magnolia High School)

Strategies to raise engagement in the classroom through partner discussions and cooperative learning will be modeled. Content will focus on incorporating all aspects of real-life applications into daily instruction to enhance mathematical discussions among your students. Craig will be using DESMOS, Graphing Stories and Dan Meyer 3-Act Math Tasks to model these strategies.

Friday 11:15
Session - 12 Room - Sutton Grades 9-College

Mathematical Fly Fishing: Reeling em in after the Gap Summer

Presented by Adam Fletcher (Bethany College) and Lisa Reilly(Bethany College)

It is no surprise that there is a gap between what mathematics high school graduates and first-year college students are “supposed to know” (and what they do know). What can we do at both educational levels to narrow the divide between the two? Discussion of co-requisite and stretch courses in a variety of mathematical tracks (trail-to-calculus, trail-to-statistics, spirit-and-flavor, etc.) will be had, and participants will be encouraged to share ideas for the betterment of all our students.

Friday 12:30

Session - 14 Room - Ballroom 1 All Grades

Manipulatives and Representation

Presented by Karen Mitchell (Marshall University)

While everyone is welcome, this session was organized specifically for preservice and beginning teachers at all grade levels. A representative from ETA will distribute sample packs of manipulatives. Participants will learn how to use these manipulatives to help their students

represent key mathematical concepts.

Friday 12:30
Session - 501 Room - Restaurant All Grades

SECOND LUNCH

choose only one lunch

Friday 12:30
Session - 15 Room - Sutton Grades K-5

Thinking Math and Subtraction

Presented by Gregory Merritt (Wood County Schools)

Utilizing the excellent resources available through AFT professional development opportunity, Thinking Math, participants will learn effective and efficient strategies for subtraction to share with their students. Subtraction can be a challenging concept for children, so this workshop will focus on helping students by becoming more confident and more competent.

Friday 12:30
Session - 16 Room - Ballroom 2 Grades 3-5

Legos: A Visual/Hands-on Method to teach Measurement

Presented by Sara Dailey (John J. Cornwell Elementary)

Using the Lego brick as a unit, explore perimeter, area, and volume as we build to a culminating project: designing a given space. Lesson plan ideas, project tips, and hands-on practice will give teachers a good launching point for their own measurement projects.

Friday 12:30
Session - 17 Room - Birch Grades 3-5

Pond Hopping: Centers that MAKE A SPLASH!

Presented by Victoria Beller (Poca Elementary School) and Debra Hackett(Poca Elementary School)

Participants in this session will explore a variety of hands-on math centers which focus on differentiated learning. Teachers will get several ideas to take back to their classrooms, as well as share THEIR ideas with collaboration time. Participants around the state will move along the centers where we will discuss the pros and cons and ideas concerning the centers. Accountability is a major concern when doing centers especially for upper-grades. We will look at ways to remedy this!

Friday 12:30
Session - 18 Room - Kanawha Grades 3-5

Crazy 8s Bedtime Math After School Math Club

Presented by Mary Ritz (Short Line School)

Join Mary as she provides information about the nonprofit organization Bedtime Math. Teacher responsibilities, application process, and some of the free engaging activities will be shared.

Friday 12:30
Session - 23 Room - Pecan Grades 6-K

When Students Create the Challenge, They Hook Each Other

Presented by Christopher Danielson (Stenhouse)

Bring a friend and/or a laptop or tablet to engage in online activities in this session where you and your fellow students will design the challenges for each other. In this session, you'll learn about the Desmos Challenge Creator—how to find and run free lessons in your own classroom, and a bit of what it takes to build your own Challenge-Creator-driven lesson.

Friday 12:30
Session - Room - Summersville Grades 6-12

Using Algebra Tiles from Polynomials to Completing the Square

Presented by Tim Scripko (College Preparatory Mathematics /Retired Math Teacher)

Learn how to use algebra tiles to make algebra into a concrete visual experience for your students. Teachers will have a chance to explore algebra tiles and learn how to use them to show area and perimeter, combining like terms, evaluating expressions, writing equations, distributive property, and solving equations. |

Friday 12:30
Session - 19 Room - Tygart Grades 6-12

PBL Share-a-thon

Presented by Vanessa Licwov-Channell (West Virginia University) and Elaine Schwing(West Virginia University)

Presented by: Melissa Forinash, Janalee Poe, Nancy Stacy, Jessica Thomas, Alex Voldeck, Sarah WaughProject-Based Learning engages students as they gain knowledge and skills by working to investigate and espond to an authentic and complex question. Are you looking for ideas for PBL units? In this share-a-thon, participants will be presented with exciting PBL units from middle and high school math classrooms. All PBL units are standards based, hands on explorations.

Friday 12:30
Session - 20 Room - Potomac Grades 6-12

Analyzing the Relationship Between Celsius & Fahrenheit

Presented by Natalie Dillinger (retired teacher/ June Harless Center)

Participants will collect temperatures in both Celsius and Fahrenheit degrees. Using list & graphing menus, participants will analyze the data to find the relationship between the temperature in degrees Celsius and the temperature in degrees Fahrenheit. Using freezing and boiling points, participants determine the ratio used when converting temperatures. Participants will determine the equation for the best fitting line and what the slope and y intercept represent in the equation.

Friday 12:30
Session - 21 Room - Greenbrier Grades 6-12

Inclusive Math Practices for Struggling Learners With and Without IEPs

Presented by Danielle Bottesch (Mountain Ridge Middle School) and Lee-Dorah Wokpara (Mountain Ridge Middle School)

This session will explore common difficulties students experience in an inclusive math class. Strategies discussed will focus on students with mild-moderate special education needs, but can be used with a wide range of students. Topics covered will include co-teaching, teaching strategies to reach a range of ability levels, and supportive technologies. The session will be led by a co-teaching duo of dual certified math and special education teachers.

Friday 12:30
Session - 22 Room - Bluestone Grades 9-12

College Board Updates: SAT, PSAT Related Assessments and AP

Presented by Joel Gulko (College Board)

Participants will learn about the SAT Suite of Assessments (SAT, PSAT/NMSQT, PSAT 10, PSAT 8/9). The data provided by any of the assessments can inform educators regarding trends and areas of focus that need intervention. Session content will also focus on resources available to teachers to support the administration of the SAT including the use of Khan Academy. Additionally, information will be shared regarding the upcoming changes to Advanced Placement (AP) for the 2019-2020 school year.

Friday 1:45

Session - 25 Room - Pecan Grades K-2

Fishing for Great DI in Math!

Presented by Stacey McKenzie (Wiley Ford Primary)

Participants will learn various activities to help students of all learning styles succeed in the math classroom. The presenter will show various activities that will gain the interest of learners in all the different multiple intelligences. Participants will also be given a packet of many of the activities that will be explored during the session.

Friday 1:45
Session - 27 Room - Tygart Grades 3-12

WV Summary of Mathematics Performance: Annual Review, Assessment Data 2018

Presented by Terri Sappington (West Virginia Department of Education)

This session will provide a brief look at statewide assessment results from the 2018 West Virginia General Summative Assessment and the SAT School Day.

Friday 1:45
Session - 33 Room - Potomac Grades 6-K

Top Three Things You Can Do with Calculators in STEM!|

Presented by Michelle Grooms (Texas Instruments)

This hands-on workshop will show three incredible things you can do with calculators in your science/STEM classroom. We will start with learning how to program (no coding experience needed) and then move to input/output control. Finally, we will explore the creation of real-world projects that are controlled by calculators! Designed for teachers who have never programmed and have no idea what a microcontroller is, this workshop will get newbies up to

speed in no time!

Friday 1:45
Session - 28 Room - Ballroom 2 Grades 6-12

Games in the classroom

Presented by Jennifer McIntosh (Parkersburg south High School)

How can you use games to better understanding in math? Join Jennifer in trying out games and activities that focus on basic skills all the way to algebra. Games are an easy way to engage all students at different levels and allow them to gain experience and practice in a low stress environment.

Friday 1:45
Session - 29 Room - Greenbrier Grades 6-12

So You Want To Be a National Board Certified Teacher

Presented by Susan McCauley (Elkins High School)

Take your teaching career to the next level with National Board certification. Learn about the redesigned NBCT certification process from a 2018 AYA (Adolescence and Young Adulthood) Mathematics NBCT.

Friday 1:45
Session - 30 Room - Kanawha Grades 6-12

All HANDS-ON Deck Equations

Presented by Jerry Pomeroy (Retired) and Judy Pomeroy(Retired)

Enhance conceptual understanding of equation solving. Participants will engage in solving equations using manipulatives.

Friday 1:45
Session - 31 Room - Birch Grades 9-12

Math on the Move - Designing Station-Based Activities for High School Math

Presented by Barbara Zingg (Washington High School)

This session will introduce teachers to the neurological research that encourages teachers to get their students up and moving to increase learning, foster collaboration, develop math conversation, and provide student-led instruction. Hands-on practice will be provided in creating 2, 3, 4, and 6 stations for a particular concept area by breaking down the standard or topic. Samples of activities will be analyzed and created by participants. Numerous resources will be introduced.

Friday 1:45
Session - 32 Room - Bluestone Grades 9-12

Senior Math Elective with Real World Math

Presented by Brittany Duelley (Gilmer County High School) and Melissa Jones(Gilmer County High School)

Standards for the course Advanced Math Modeling sounds scary, have you looked into them? Presenters will share material that aligns with the Standards. What's more, students are loving

the class! When students start looking at math in the real world (like phone numbers, license plates, statistics, etc.), they become more interested in the subject. A comment heard from students, 'I've waited my whole life for a math class like this!'

Friday 1:45
Session - 34 Room - Ballroom 1 Grades College-College

Issues in Higher Education

Presented by Karen Mitchell (Marshall University)

Participants in this session will have an opportunity to share and discuss information that may influence their work in teaching mathematics and preparing teacher candidates.

Friday 1:45
Session - 61 Room - Summersville Grades K-12

NOT Your Parents' Curriculum, It's DIFFERENTIATED!

Presented by David Frongillo (Retired educator)

Are your students, uninterested, frustrated, bored? Get students engaged and involved in learning. Learn a research-based, proven way to differentiate your curriculum, no matter the topic. Challenge your students at their appropriate level. Raise academic performance while reducing student failure and classroom disturbances. Research has proven only 5-10% of lecture material is retained and half the students that dropped out were bored. It’s time to UP YOUR GAME (and student performance)!

Friday 1:45
Session - 24 Room - Sutton All Grades

math4life Initiative

Presented by Cindy Burke (West Virginia Department of Education) and Teresa Hammond(West Virginia Department of Education)

Join us in an opportunity to learn more about the math4life Initiative. Ask questions about the Initiative and your role as a leader in your district to enhance classroom instruction and improve student learning. |

Friday 3:00

Session - 35 Room - Sutton Grades K-5

Hooked on Number Talks a Decade Later

Presented by Joy Marie Hunt (Burch PK-8)

Number Talks have been widely used in math classrooms for several years. What are number talks and why are they such a powerful routine? Number Talks are brief, they require few supplies, and they engage all students in discussion of mental math strategies for solving problems. This session will review the basics as well as ways to take your Number Talks to the next level.

Friday 3:00
Session - 40 Room - Tygart Grades 3-12

Providing Educators with Assessment Knowledge and Skills

Presented by Terri Sappington (West Virginia Department of Education)

WV PEAKS - a new initiative by the WVDE Office of Assessment to assist educators with the use assessment data.

Friday 3:00
Session - 41 Room - Gauley Grades 3-12

Getting started with ALEKS and Personalized Learning

Presented by John Miller (McGraw Hill Education)

Participants will be exposed to the ALEKS interface and functionality. What is ALEKS? What makes ALEKS unique? How does the artificial intelligence work and why is the data so reliable? This session will provide an overview of how this adaptive digital content can personalize learning for all students and differentiate at all levels. Exploring the initial diagnostic called the knowledge check and how the reliable data can provide each learner a personalized pathway for learning and growth while supporting foundational skills, on grade level content, and rigorous above grade level learning needs. Making progress monitoring effortless by accessing real time data. How ALEKS can meet the needs o

Friday 3:00
Session - 36 Room - Birch Grades 3-5

What's in Your STREAM?

Presented by Beckey Hall (Lewis County)

Come and catch some engaging activities that involve Science, Technology, Reading, Arts, and Math.

Friday 3:00
Session - 37 Room - Potomac Grades 3-5

Have All Learning Modalities Catch on to Math

Presented by Debra Hackett (Poca Elementary) and Victoria Beller(Poca Elementary)

To be a part of their individual instruction that works towards personal strengths, students will create assessments of material using a specific learning style. Exit tickets are color coded by learning style to allow a choice for the student. Receive learning styles/modality tests that you can use, create and participate in some of the student created assessments, and create and complete some teacher created exit tickets.

Friday 3:00
Session - 38 Room - Kanawha Grades 3-5

Process-Oriented Thinking in Math

Presented by Candace Mellen (West Virginia University)

A group of advanced fourth grade math students sparked interest when they were hesitant to explain their process of thinking. With a passion for studying students' different strategies in math, this inquiry led Candace to implement activities in the classroom to get students thinking about their mathematical process. This presentation will focus on math journals and learning tasks that motivated and allowed students to share their reasoning and increase mathematical understanding.

Friday 3:00
Session - 39 Room - Greenbrier Grades 3-5

Reel 'em In with a Math Quilt!

Presented by Susan Barrett (Nicholas County Schools)

Come learn how your students can apply knowledge of fractions, geometry, and measurement to build a quilt square.

Friday 3:00
Session - 45 Room - Pecan Grades 6-K

The Power of Multiple Right Answers: Ambiguity in Math Class

Presented by Christopher Danielson (Stenhouse)

Certainty, precise definitions, and proof are the end products of mathematical activity, not the launching point. Uncertainty and ambiguity are the beginning points. In this session, we'll work across mathematical disciplines—geometry, numbers, and patterns—to turn ambiguity into certainty, and in the process do mathematics together.

Friday 3:00
Session - 42 Room - Bluestone Grades 6-12

Sorting Out Definitions

Presented by Matthew Campbell (West Virginia University)

Students need opportunities to engage in the practice of defining, instead of simply being given definitions. This impacts how definitions should be introduced, developed, and used as students discuss and make sense of mathematics. In this session, participants will engage with a card sorting activity that engages students in the practice of defining through whole-class discussion. Tools to support the planning and use of the activity, as well as examples, will be shared and discussed.

Friday 3:00
Session - 43 Room - Maple Grades 9-12

Desmos by Design

Presented by Kerianne Smead (Fairmont Senior High School)

Explore desmos.com activities to use in the classroom. Presenter will guide participants through a lesson and explain the features of this free and innovative tool and how it can be used in the classroom.

Friday 3:00
Session - 44 Room - Summersville Grades 9-12

Unite Around Units

Presented by Jennifer Nail (Pocahontas County High School)

Science and math are closely connected, but there is one thing that a science teacher really loves and we math teachers push aside; that's the unit of measurement. Join Jennifer as she shares her journey of trying to bring science into math class through an exploration of units.

Saturday 8:30

Session - 53 Room - Sutton Grades K-12

Math Coachs Tackle Box

Presented by Melanie Meck (Hampshire County Schools)

This session is for Mathematics Coaches: new to the position, those who have been at it for a while, and those in between. This will be a time to share resources, ask questions, network and pick each other's brains.

Saturday 8:30
Session - 46 Room - Tygart All Grades

How to Win $10,000 and Become a Leader in Education

Presented by Cindy Burke (WVDE) and Cindy Burke(WVDE)

Learn how to apply for the Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST) to win a $10,000 cash prize and a trip to Washington, DC for you and a guest. Awardees serve as models for their colleagues, inspiration to their communities, and leaders in the improvement of mathematics and science education. We will connect you with a mentor and provide hints to help you showcase your best teaching on your application.

Saturday 8:30
Session - 47 Room - Ballroom 1 All Grades

Examining the Connections

Presented by Karen Mitchell (Marshall University)

While everyone is welcome, this session was organized specifically for preservice and beginning teachers at all grade levels.| |Many concepts that are introduced at the elementary level are still essential at all the other grade levels. In this session participants will examine how selected concepts are developed from elementary to college. Knowledge of the vertical alignment of concepts is an essential tool in lesson planning, time management, and student support.

Saturday 8:30
Session - 48 Room - Maple Grades K-5

The Hook is a Book

Presented by Allison Miller (Spencer Elementary School)

Audience Participation - Have a good idea for a math lesson based on a children's book? Bring a copy of that book and be ready to share your activity with your colleagues. By the end of the session you will have a bucketful of ideas to take back to your classroom.

Saturday 8:30
Session - 49 Room - Potomac Grades K-5

Is Guided Math Right for You?

Presented by Marbeth Slater (Kanawha County Schools)

Trying to teach conceptually, build vocabulary, promote writing, and create independent problem solvers while meeting the needs of all learners; then guided math might be a great fit

for you and your classroom! Attend and learn more!

Saturday 8:30
Session - 50 Room - Greenbrier Grades K-5

If These Walls could Talk||

Presented by Teresa Stanley (Kanawha County Schools)

Students need to be able to read and write in math class to be successful. The classroom walls can display the tools that students need to actively participate in mathematical discourse. Math vocabulary word walls need to be accessible to students so that they can reference them for communicating their thinking. Teacher and student made anchor charts can highlight problem solving steps, strategies, and so much more. Come learn how to create a classroom environment of numeracy for your students.

Saturday 8:30
Session - 51 Room - Pecan Grades K-5

Motivated to Master Math: Game-based, movement, and personalized learning

Presented by Mary Ann Young (Wetzel County Schools)

Movement and game-based learning with intentional differentiated learning outcomes engage and hook students on learning, increasing mastery while lessening behavior issues. |Educational research based programs and strategies will hook teachers and students! Bring your device and be ready to play . . .learn.

Saturday 8:30
Session - 54 Room - Birch Grades 3-12

Strategies to Engage Learners in a Collaborative Mathematics Classroom

Presented by Kristen Oxley (Kanawha County Schools)

Teachers will become students as they participate in activities that promote student engagement and collaboration in the classroom.

Saturday 8:30
Session - 55 Room - Summersville Grades 3-12

Digital Portfolios

Presented by Jami Packer (Brooke Middle School) and Stephanie Humienny(Brooke Middle School)

When we place learning in the hands of our students, we empower them to take charge and teach them to reflect and grow independently. (Muhtaris & Ziemke, 2015). Challenges and successes experienced by the presenters during implementation of digital portfolios in 8th grade classes will be shared. Platforms, grading approaches, and student reactions will be compared.

Saturday 8:30
Session - 52 Room - Ballroom 2 Grades 3-5

Domino Math Games, Fraction F-U-N

Presented by Allison Shriver (Bradley Elementary School)

Allison Shriver, current PAEMST WV finalist, will bring fraction fun to life with domino games. Skill building games are a surefire way to practice skills and gain applicable understanding of tough fraction concepts. Three games will be shared covering the equivalent fractions, ordering fractions, and making wholes with fractions. Attendees will leave with everything they need to play these games in their classrooms, just add the dominoes.

Saturday 8:30
Session - 56 Room - Kanawha Grades 6-12

Create Excitement in Your Classroom with PBL

Presented by Elaine Schwing (West Virginia University) and Vanesa Licwov-Channell(West Virginia University)

Project-based learning (PBL) is a student-centered teaching approach that engages students in acquiring deeper knowledge through active exploration of real-world challenges and problems. Participants will be actively involved in examining the essential parts of a PBL unit and will take first steps towards creating high quality PBL units for their classroom. This session will be useful for teachers new to PBL and teachers who wish their PBL units could be even better.

Saturday 8:30
Session - 57 Room - Bluestone Grades 9-College

Hook, Line, and Sinker: The Importance of a Spirit and Flavor Course

Presented by Adam Fletcher (Bethany College)

The question of “when am I ever going to use this stuff?” is an old one. Math phobia” has entered mainstream conversational language. People tend to giggle and say to you, “I’ve always hated math.” Maybe the way society has looked at mathematics, as “all about the numbers” is a little skewed. Maybe there’s a way to “infect” society with a love of mathematics when it doesn’t look like mathematics. Come join us for a conversation about the hidden realm of mathematics in plain sight!

Saturday 9:45

Session - 59 Room - Ballroom 2 Grades K-8

Deck the Halls with Math

Presented by Alisha Wallis (Beale Elementary School) and Dawn Bays(Beale Elementary School)

How can you get students attention during those crazy weeks when there is an upcoming holiday (Halloween, Thanksgiving, Christmas and more)? This session will provide participants with math ideas to use during those crazy holiday weeks. Participants will be given ideas for whole-school math day activities and holiday math activities to use to help teach standards.Some of the activities could also be used for a family engagement night.

Saturday 9:45
Session - 58 Room - Pecan Grades K-5

The Progression of Fractions

Presented by Candace Lewis (Wood County Schools) and Tammy McKnight(Wood County

Schools)

This session is designed to help teachers develop a deep conceptual understanding of initial fraction ideas using manipulatives.

Saturday 9:45
Session - 63 Room - Gauley Grades 3-12

Targeted Instruction and Student Reflection with ALEKS to Personalize Learning

Presented by John Miller (McGraw Hill Education)

Participants will take a deep dive in the reliable data and reports within ALEKS. This will provide the instructors the ability to make informed targeted instruction for all learners at all levels. This session will provide an overview of how this adaptive digital content can personalize learning and differentiate instruction and learning at all levels. Below, on, and above grade level. Easily providing the instructor with reliable data that groups students and supports the station rotation model of Blended learning. Making progress monitoring effortless by accessing real time data. How does the artificial intelligence work and why is the data so reliable? ALEKS provides real time feed-back

Saturday 9:45
Session - 60 Room - Sutton Grades 3-5

The Power of Student/Teacher Math Conferences

Presented by Summer McClintock (Pleasant View Elementary) and Shanahan Elmore (Warm Springs Intermediate)

It's surprising what can be accomplished in a five-minute math conversation with your students. During this session, you will learn how two teachers implement math conferences through a math workshop, and the benefits conferences can have for your students. Handouts and resources will be provided to aid implementation of this instructional method in the grade 3-5 classroom.

Saturday 9:45
Session - 69 Room - Summersville Grades 6-K

Micromessaging: Communicating more than the words we use

Presented by Nancy Spillane (West Virginia University)

The concept of micromessaging and its relationship to equity in the STEM classroom will be introduced. Awareness of this factor and an understanding of how micromessages can influence student performance - especially by students from underrepresented populations - can lead to positive changes in teachers' behaviors to better support all students in their classrooms. Participants will engage in activities to experience micromessaging's influence on interactions, participation, and success.

Saturday 9:45
Session - 64 Room - Greenbrier Grades 6-12

Coding aMAZEment

Presented by Maggie Chenoweth (Cabell County Schools)

Have you thought about incorporating computer science in your classes but aren't sure where

to begin? This hands-on session is for you! Explore several online resources and program Sphero robots. Although lesson ideas will focus on middle and high school classes, anyone is welcome to attend. Be aMAZEd at how easy it is to learn how to code!

Saturday 9:45
Session - 65 Room - Tygart Grades 6-12

Navigating Mathematical Reasoning and Answers That Are Wrong

Presented by Josh Karr (West Virginia University)

“Ehhh, that’s not right. Not quite. Are you sure that’s what you mean?” From facilitating classroom talk in high school classrooms, as well as co-teaching a math methods course, presenter is interested in not only designing and implementing activities that are structured for talk, but also in how we navigate student reasoning that is “wrong”. This presentation will focus on equipping attendees with methods for recognizing, confronting, and navigating errors that are made public through classroom talk.

Saturday 9:45
Session - 66 Room - Birch Grades 6-12

Utilizing Meaningful Technology In Your Secondary Classroom

Presented by Michelle Weekley (Wetzel County Schools)

There is no one-program-fits-all model that has worked in any school. Come to experience how we can hack the existing programs out there to use what we need. We will explore free online resources that can be integrated into math classrooms. Technology shouldnt be something extra or something forced, it should impact learning and teaching in a positive way. Bring back to your school some more resources to help your students grow. Please BYOD.

Saturday 9:45
Session - 67 Room - Ballroom 1 Grades 6-12

Math Talk Role Cards: Great Math Talk Takes Training!

Presented by Lauren Goodwin (Pocahontas County High School) and Joanna Burt-Kinderman(Pocahontas County High School)

You know the research says that math talk matters, and you try to structure your class to allow for more math talk, but often the talk falls short of your hopes. There are more IDKs than robust questions and justifications. Join Pocahontas County math teacher / math coach combo to experience one intervention developed by a team of teachers: pre and post-problem solving role cards to train teams of four for better math talk.

Saturday 9:45
Session - 62 Room - Kanawha Grades 6-8

Hooked on Puzzles

Presented by Carol Clay (Franklin Elementary School) and Sheila Ruddle(Retired (Pendleton County Schools))

If you are a puzzle-lover, or have students who are, attend this session to gain an idea for differentiation, Puzzle Palace. This session was first presented in 2012. First-timers, or those who want a refresher, are invited to attend.

Saturday 9:45
Session - 68 Room - Maple Grades 9-K

Explore Mathematical Induction

Presented by Dennine LaRue (Fairmont State University)

Participants will examine the method of proof called Mathematical Induction. Proofs will be used from various math topics ranging from sequences (typical introduction) to exponent rules and also geometry. The pros and cons for the techniques used for teaching induction will be discussed. Participants will be asked to share their experiences.

Saturday 11:00

Session - 70 Room - Ballroom 1 All Grades

Panel of Experts

Presented by Karen Mitchell (Marshall University)

While everyone is welcome, this session was organized specifically for preservice and beginning teachers at all grade levels who would like to consult with experienced WV mathematics teachers. Participants will have an opportunity to generate questions and submit them to a panel of award winning teachers. The exchange of ideas will be beneficial to both participants and panel members.

Saturday 11:00
Session - 73 Room - Tygart Grades K-5

Making Student Reasoning Central to Discussions with True/False Equations

Presented by Stephanie Jones (Fairmont State University)

To gain a thorough grasp of mathematics, students must have opportunities to share their reasoning with others and to listen and respond to other students' reasoning. Participants will experience True/False Equations, an activity that may be used to help facilitate students' thinking and classroom discussion. Participants will receive a framework of the activity and sample prompts for a variety of mathematics content. Strategies for using the activity with students will also be discussed.

Saturday 11:00
Session - 71 Room - Birch Grades K-2

Small Group Instruction: Guided Math in Action

Presented by Elizabeth Crawford (June Harless Center) and Tarabeth Brumfield(June Harless Center)

Discussion will focus on implementation of small group mathematics instruction in the primary grades. Attendees will participate in math stations to be exposed to independent work stations, as well as teacher led instructional groups. Through this approach, students will develop number sense, algebraic thinking, and so much more! Presenter will also provide classroom management strategies to use during math stations.

Saturday 11:00
Session - 72 Room - Ballroom 2 Grades K-2

Gametastic Math and Everyday Routines

Presented by Jennifer Zickefoose (Nutter Fort Primary) and Terra Burnett()

Presenters will share many games and resources that make learning and teaching math exciting and fun! Experience guided math games, partner games, and some must-have routines to help boost math scores!

Saturday 11:00
Session - 80 Room - Gauley Grades 3-12

Data-Driven Decision Making with ALEKS and Personalized Learning

Presented by John Miller (McGraw Hill Education)

Participants will explore the rich reliable data within ALEKS. Using the knowledge check and ongoing personalized pathway data for all students to make informed decisions in the classroom. This session will provide an overview of how this adaptive digital content can personalize learning for all students and differentiate at all levels. Using a variety of reports within ALEKS to provide interventions, on grade level re-enforcement and rigorous deeper learning opportunities for all students. Making progress monitoring effortless by accessing real time data. How does the artificial intelligence work and why is the data so reliable? Participants will be exposed to how instructors can make data

Saturday 11:00
Session - 77 Room - Pecan Grades 3-8

Fraction Operations

Presented by Tammy McKnight (Wood County Schools) and Candace Lewis(Wood County Schools)

This session builds on conceptual and procedural understanding for fraction operations.(Companion session to Progression of Fractions session with Candace Lewis)

Saturday 11:00
Session - 78 Room - Potomac Grades 3-8

Lets Have Some Fun With Transformations!

Presented by Lucie Refsland (Retired)

Join Lucie for a hands-on session targeting transformations. Experiment with reflections (flips), rotations (turns) and translations(slides) using a Mira and other objects. Miras will be available for use during the session.

Saturday 11:00
Session - 79 Room - Kanawha Grades 3-8

An Ocean of Ideas

Presented by Sheila Ruddle (Retired (Pendleton County Schools))

Sheila will report on three articles from the NCTM publication, Mathematics Teaching in the Middle School, and will involve participants in the mathematics presented. Individuals will learn how they, and their schools, can gain access to a vast sea of ideas!

Saturday 11:00
Session - 74 Room - Greenbrier Grades 3-5

Creating Access for All Students

Presented by Traci Phillips Roach (Carnegie Learning)

Do you provide ALL students access to higher level mathematics? Gain an understanding of the importance of creating access for all students and explore strategies to create this access when launching tasks. Our goal is access for ALL!

Saturday 11:00
Session - 75 Room - Maple Grades 3-5

Using Interim Data in the Classroom

Presented by Jessica May (Dingess Elementary School) and Jaclyn Hall(Dingess Elementary)

A presentation on importance of using and reviewing the interims, breaking down your student interim data (from the Summative Assessment), and how best to use this data to help your students.

Saturday 11:00
Session - 81 Room - Summersville Grades 6-12

Vote for Your Representation!!

Presented by Bobbie Gelpi (Parkersburg High School)

Is there a way to help students make meaning of mathematics? This session is about using a 4 Square to help students solve/create problem situations with the accompanying graphs, tables and equations. Students gain practice in evaluating functions, graphing functions and identifying the type of function from the problem situations, as well as the graphs and tables.