

*****Session 1: 8:00-9:00*****

Elementary, Middle

Dr. Holly Anthony & Carey Wilson

We Need to Level with You about the Measures of Central Tendency

We provide a hands-on approach for upper elementary and middle school mathematics learners to understand the measures of central tendency. Participants in this session will use snap cubes to better understand the mean as a process of "leveling out."

Room: **200**

8:00-9:00

STATS

Elementary, Middle, High

Sarah Burton

Building Thinking Classrooms in Mathematics

Interested in seeing how a classroom based on Peter Liljedahl's "Building Thinking Classrooms in Mathematics" operates? Join a former math-hater as she shows you how she approaches curriculum, grading, group work, and even the physical set up for a math class based on data-driven advice. While examples will be given from a 6th grade statistics course, practical applications can be made to all grade levels and mathematical domains.

Room: **221** (Note: This room is in a slightly different part of the building so that we can see her actual classroom.)

8:00-9:00

Middle, High

Heather Gay

Small moves to improve rigor with the IFD

"Improving Rigor" is a buzz phrase that has been rampant in education. But its so broad, so overwhelming. Join me to dive into the TN Instructional Focus Document to plan for small moves (Re: Small planning!) that will take your scholars from one level of understanding to the next.

Room: **202**

8:00-9:00

Elementary, Middle, High

Joanne Philhower

Tools for Formative Assessment: What are my Options?

This interactive session will share information about multiple free websites that contain great math tasks and activities that can be used to formatively assess students. Suggestions for self-assessment, peer assessment, and questioning will be discussed. This session is applicable for all grade levels and content areas.

Room: **203**

8:00-9:00

STATS

High

Lea Keith

Making Stats More Engaging with StatsMedic

Learn more about how to make your statistics class more engaging using the free StatsMedic Curriculum resources!

Room: **204**

8:00-9:00

STATS

Session 2: 9:05-10:05

Pre-K, Elementary, Middle

Jennifer Meadows & Carey Wilson

Emphasizing Mathematics in Family STEM Events

In this session, station ideas that support mathematical learning will be shared as well as overall planning ideas for STEM events. Participants will be encouraged to share their own ideas and experiences as well.

Room: **200**

9:05-10:05

STATS

Elementary

Christy Perez

VersaTiles

Using VersaTiles is easy! Learn how to keep students on-task and engaged, while providing flexibility for personalized instruction and meaningful teaching.

VersaTiles helps students build math proficiency in a challenging, rewarding way.

Room: **201**

9:05-10:05

No

Middle, High, Post-Secondary, Pre-Service

Dr. Holly Anthony & Heather Bertram

Using CODAP to Explore Data

We will explore CODAP (free online software) and how to use it to explore data. Bring your laptop!

Room: **202**

9:05-10:05

STATS

High

Monica Laird

Learning through Tasks: Student Access, Engagement and Approach

Looking for student engagement with the real world twist? Teaching through tasks has changed my way of seeing my students grow their mathematical mindset as well as approach and access to the content.

Room: **203**

9:05-10:05

STATS

High

Samuel Ligo

Making the p-value accessible

The p-value from a test of hypotheses is probably the single most difficult concept to grasp in an elementary statistics course. Learn tips and tricks to make this concept accessible (and maybe even fun) to your students

Room: **204**

9:05-10:05

STATS

Session 3: 10:10-11:10

High

Geoff Combs

Try a Sampler of Sampling

This presentation will expose teachers to definitions of different sampling techniques and bias while also giving activities to help teachers present similar material in their classes. We'll discuss why random sampling is most appropriate, other options you have to sample your data, and how does bias enter the picture. Standards to be presented include A2.S.IC.A.2 as well as several objectives in Topic 1 of the Statistics standards.

Room: **200**
10:10-11:10

STATS

Elementary, General

Dr. Alisha Hayes

Math Fact Fluency PD Made Simple

Did you know that math fluency can be made simple? In this presentation, I will show you strategies, activities, and more to make those facts stick. This session will help you move beyond the hustle and bustle of worksheets and timed test. The strategies, materials, and handouts all will be provided. You will leave this session ready to implement in your class today. Please come join me and let's make learning facts fun and simple!

Room: **201**
10:10-11:10

STATS

Middle, High

Andy Wilson

The Magic of Problem Solving

I will share some "mathemagical" problems for solving. Emphasis will be placed on discovering solutions using patterns, arithmetic, geometry, and/or algebra.

Room: **202**
10:10-11:10

High

Carey Wilson

Mathematics Tasks from a Mathematics Letter Writing Exchange

This session will provide a variety of geometry mathematics tasks accumulated from several years of mathematical letter writing exchanges between a secondary preservice teacher mathematics methods course and a high school geometry class. In addition, this session will also provide additional information about how mathematics teachers may set up a mathematical letter writing exchange.

Room: **203**
10:10-11:10

Middle, High

Jenny DeHart

Using Math to Establish Classroom Expectations

Developing classrooms expectations is important, but so is math! Come experience an activity you can use in your classroom which allows you to establish classroom expectations while engaging your students in a mathematical thinking task. As a bonus, after using the activity in your classroom you will have student work to display that will not only highlight great problem solving but will help build community. This activity has proven to be successful in middle school, high school, and college classrooms.

Room: **204**
10:10-11:10

11:10-11:45 LUNCH

11:45-12:45 Keynote Address

Trent Okerson

Trent is the chief meteorologist, weekday mornings and midday, at WPSD Local 6 - Paducah, KY
"100% Chance of Math: How meteorologists use math to build forecasts and help save lives."

Session 5: 12:55-1:55

Elementary

Mary Ann Emberton

Learning Alive

I received a grant last year to purchase the Learning Alive program.
I would like to show what your grant allowed me to bring to my students.

Room: **200**
12:55-1:55

Pre-K, Elementary, Middle, High, Post-Secondary, General, Pre-Service

Markie Keith

Digital Escape Room Reviews

Up your TnReady Review by learning how to engage students with a digital escape room! We will participate in one as well as learn how to make your own. I would advise bringing a computer to this to get the most of this session.

Room: **201**
12:55-1:55

Middle, High, Post-Secondary

Sharon Glenn

Intro to Desmos Activity Builder- BYOT

Participants will learn to operate the teacher dashboard and create an activity on the Activity Builder on Desmos (including a card sort as well as interactive sketch and graphing screens).

First time users welcome! Bring your own laptop to get the most out of this session.

Room: **202**
12:55-1:55

Elementary, Pre-Service

Jennifer Meadows (TN Tech University) & Emily Medlock (Lipscomb University)

Making the Most out of High Quality Instructional Materials (HQIM)

Hearing a lot about using high quality instructional materials in your math classroom? Does this mean just picking up and reading from a teacher's manual from a curriculum designated as HQIM? Absolutely not! In this session, we will discuss identifying and using HQIM to maximize learning.

Room: **203**
12:55-1:55

High, Post-Secondary, General, Pre-Service

Ryan Fox

What are the Million-Dollar Odds?

Out in the real world, I have found opportunities where someone can win a million dollars or more in a game or contest. However, how realistic are the chances to win one million dollars? I will lead participants in building a lesson through real-world examples of improbable odds with unbelievable prizes.

Room: **204**
12:55-1:55

*****Session 6: 2:00-3:00*****

Elementary, Middle

Amanda Holloway & Allison Friar

Cash and Change: Hands-On Learning to Support Math Literacy

Since the pandemic, many students have missed out on real-world experiences to apply and practice mathematical skills. A recent field trip sought to close this gap. Fifth-grade students at Eakin Elementary in Nashville, TN visited International Market- a local Thai restaurant- to practice ordering food on a budget, calculating sales tax and tip, and experiencing different food cultures.

Room: **200**
2:00-3:00

General

Jackie Vogel, Christopher Postel, Bud Glunt

Are you interested in a FREE Math Masters?

Are you interested in a FREE Math Masters designed for working teachers? Come find out about the new cohort starting this summer and funding opportunities.

We also have Statistics classes for elementary, middle, high, and post secondary.

Room: **201**
2:00-3:00

High

Sharon Glenn

Prob and Stats in Algebra 2

This session is designed to help teachers who teach Algebra 2 feel better equipped to teach some of the Probability and Statistics Topics in that course so that students build understanding. I'll share some technology and activities I've used to help students uncover these concepts and make connections.

Room: **202**
2:00-3:00

STATS

Middle, High, Post-Secondary

Dr. Sam Narimetla

On Preparing High/Middle School Students for College Math

We will show useful practices that students can adopt in high/middle school math classes that will help them in college level math, physics, and chemistry classes.

Room: **203**
2:00-3:00

High

Teresa Agee

Share a Lesson, Project or Task

Bring your favorite lesson, task, or project to share with other teachers. We will try to all take a few minutes to share how we deliver the lesson, launch the task or the expectations from the project.

Room: **204**
2:00-3:00

STATS