PRESENTERS

MATH CONFERENCE 2019

NOVEMBER 4-6 | AUSTIN, TEXAS

KATE ERVIN

See the Math: How Real-Time Transcribers Provide Access to STEM Content Using Math Transcribing Features in the TypeWell Software

Most deaf/hh students take mainstreamed math classes. TypeWell is a text interpreting system by which trained transcribers convey classroom content in real time. The presenters will demonstrate TypeWell's math dictionary, which enables transcribers to capture math symbols and formulas and format their transcripts like a math textbook, for consistency.

PAMELA HARRIS

Keynote: Powerful Visual Models

We will discuss how students develop increasingly sophisticated mathematical reasoning and how powerful visual models can help. Using the open number line, the open array, and the ratio table we will demonstrate how students can use these models to represent their thinking and also as tools for thinking.

Number Talks and Problem Strings

Problem strings and talks are instructional routines. A problem strings is a purposeful sequence of related problems designed to help students mentally construct mathematical relationships. The power of a problem strings lies in the carefully crafted conversation as students solve problems, and the teacher makes student thinking visible and draws out important relationships and connections. Number talks compare strategies so that students get more efficient. In this session, we'll experience strings and talks, comparing when and why to use each in teaching.

JEN HERZOG

CO-PRESENT WITH ASHLEY VILLAVERDE

ST Math = Concept Based Visual Instruction

ST Math has been a game changer for seeing math a different way. It is a beautiful visual mathematics unlike any other program we have seen. The focus is deep conceptual understanding without written or spoken words getting in the way. Puzzles are presented in an engaging and individual manner that can be used for on grade level work (Pre K-8), intervention (available through HS level) or whole class conversations.

BARBARA SPIECKER

Keynote: Finding My Roots in Mathematics: A Deaf Scientist's Journey Into The Oceanic World

In mathematics, a "root" is the number that satisfies an equation or cause the equation to evaluate to zero. In the real world, mathematics is the "root" to life. My presentation will discuss my journey as a marine scientist and how I have come to realize that mathematics is a solution to every aspect of my work.

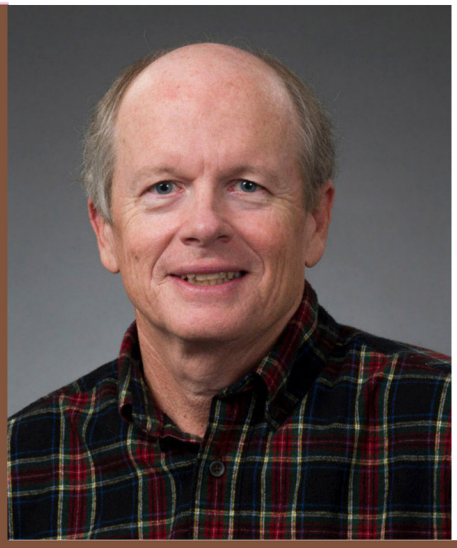
LARA METCALF

Session 1: Understanding K-12 Math Progressions To Help Access Grade Level Content

Elementary math has a strong emphasis on building conceptual understanding through visuals and models. Being familiar with these models and the progression of math knowledge starting in elementary can help teachers to build on concepts to allow students greater access to grade level content.

Session 2: Using Desmos for Engaging and Accessible Instruction

Learn about the basics of Desmos "Classroom Activities" and features of the online graphing calculator. Desmos' ready made classroom activities encourage deep thinking in a way that students at a variety of levels can access. The graphing calculator has many features that are easy to use and encourage mathematical discovery.



KEITH MOUSLEY

Interactive Approach in Math Activities to Gain Better Understanding in Ratio, Percentage, Fractions, and Problem Solving

Research articles show that students who chat/sign or is involved in interactive activities with teachers, classmates, and parents show an improvement in their math skills. This presentation will be focusing on more interactive and tactile learning. The focus is also on hands-on activities as well as casual conversations about math and how it relates to everyday life.

ASHLEY VILLAVERDE

CO-PRESENT WITH JEN HERZOG

ST Math = Concept Based Visual Instruction

ST Math has been a game changer for seeing math a different way. It is a beautiful visual mathematics unlike any other program we have seen. The focus is deep conceptual understanding without written or spoken words getting in the way. Puzzles are presented in an engaging and individual manner that can be used for on grade level work (Pre K-8), intervention (available through HS level) or whole class conversations.

HARRY WOOD

Using Robotics for STEM Instruction (math emphasis)

STEM skills are increasingly becoming an important part of a student's education. Robotics are a great hands on tool to promote these skills. See the ways that robotics can develop math skills.

NANCY MCANLIS and JENI JACKERSON

Promote a deeper understanding of Mathematics with ASL Literacy

Literacy skills are important in school and life: the stronger that students' reading comprehension skills are, the greater their chances of achieving academic success. How can we incorporate literacy skills into mathematics for our students to be math literate? Our bilingual Deaf and Hard of Hearing students are visual learners and they use ASL to visualize and make real-life applications while learning new mathematical concepts. The use of ASL storytelling technique promotes a deeper understanding of math. In this presentation, we will demonstrate the bilingual strategies including ASL storytelling videos we can align with secondary mathematical concepts.

http://deaftec.org/mathconference

MATH CONFERENCE 2019

NOVEMBER 4-6 | AUSTIN, TEXAS