

PRIMARY (K–5): SESSION II: CONTENT LEVEL 9:45 am – 10:35 am

#1 Engage Students in Algebraic and Geometric Thinking Activities

Edna Bazik

Use mental mathematics, patterns, hands-on learning, and manipulatives to encourage students to be involved with thinking and doing mathematics. Active, classroom-tested, math learning activities will be shared.

PRIMARY (K–5): SESSION III: CONTENT LEVEL 10:45 am – 11:35 am

#25 Math Assessment: Building Blocks for the Whole Child

Edna Bazik

Creative math application projects, links, organizers, splashes and webs will be shared. Also, use class discussions, student reflections, self-evaluations, journal writing, manipulative observations and portfolios to assess your students.

SECONDARY (6-12): SESSIONS II & III: CONTENT LEVEL SESSIONS

#2 Using Foldables in the Mathematics Classroom

Come and learn about hands-on note taking devices that help students organize and gather information. Be prepared to create, create, and collaborate with your colleagues!

#3 Introduction to Clickers in the Mathematics Classroom

Experience using audience response systems to engage and assess ALL students

#4 Advanced Clickers in the Mathematics Classroom

I've used clickers in the classroom, now what? Experience how to integrate audience response systems on a daily basis

#5 Use the TI-Nspire to Engage Students and Explore Multiple Representations of Algebraic and Geometric Concepts

Using the linked multiple representations (graphs, geometric constructions, and spreadsheets) of the TI-Nspire, students can explore rich application problems that connect algebra and geometry.

#6 Implementing CRISS in the Classroom via the SMART Board

This session will focus on implementing CRISS strategies in the classroom, and how a SmartBoard can be used in conjunction with CRISS strategies.

#7 SMART Board for Algebra 1 - Geometry

Learn how interactive whiteboard technology can be used to improve mathematics instruction and increase student engagement

#8 SMART Board for Algebra 2 - Precalculus

Learn how interactive whiteboard technology can be used to improve mathematics instruction and increase student engagement

#9 CRISS Strategies for the Struggling Student

At this session, we will share strategies which help struggling students take better notes, have a better understanding of Mathematical vocabulary, and generally understand Mathematical situations.

#10 Proofs Without Words

Learn how pictures and diagrams demonstrate why a particular mathematical statement may be true, and how teachers and students could begin to go about proving it. Many of the proofs in this presentation are geared toward helping students to think visually in Geometry, Algebra, Precalculus and Calculus.

#11 Useful Interactive Math Websites for Precalculus & Calculus

Come and experience cool websites that will grab your students' attention and connect to what you are teaching in Calculus & Precalculus

#12 Using Word, Excel and Math Type to Create Assessment and Worksheets

Experience helpful hints using these technologies and others to create tests and worksheets

#13 Creating Self Directed Math Students: Connecting Targets, Assessments, Instruction and Differentiation

Learn how to implement differentiation through the use of student goal setting and assessment

SECONDARY (6–12): SESSIONS II & III: CONTENT LEVEL SESSIONS CONT.

#14 Standards Based Grading and Assessment

You've heard about assessment of and assessment for learning. How does that translate into grading for learning? We will look at standards-based grading, how to write assessments, communicate progress and design future lessons accordingly.

#15 Playing with the Brain

Brain-based activities allow for frequent physical stimulation and exercise to get the brain energized. Research, often associated with Gardener's theory of multiple intelligences, shows a profound impact on student achievement when brain breaks are used within the classroom.

#16 Professional Learning Communities in Mathematics

PLC's are a hot topic right now, but what do effective PLC's look like and what do they do when they meet? Learn how to write effective SMART goals and how to collect data from common formative assessments to increase student's performance.

#17 Calculus Quick Hitters

Come see many "mini" activities that can help foster a conceptual understanding of Calculus.

#18 Intro to Tablet Technology

Observe an introduction to different ways of using the tablet computer to engage students. Presentation for beginners only.

#19 Questioning That Invites Thinking

If you are tired of superficial student responses, come learn how to vary your question mix by regularly asking deeper thinking questions.

#20 Classroom Routines that Facilitate Student Learning

This session will share a set of empowering, observable classroom routines that support student thinking and the daily processing of what is being taught, and thereby heighten student self-awareness of learning.

#21 Making Math Fun

Interesting, fun, math ideas gathered over 34 years will be presented, including activity/worksheet handouts that can be use at all levels

#22 Flip Videos in the Mathematics Classroom

Experience how easy it is to use this powerful technology that will engage and allow you to assess your students problem solving

#23 Using Power Point as an Interactive Learning Tool

Experience how to transform this technology into an interactive tool for student engagement

#24 Co-Teaching Mathematics - Ideas and discussion

This presentation will provide information regarding their most recent research regarding collaborative teaching. In addition we will discuss our experiences and facilitate others to give thoughts on theirs.

11:35 pm – 11:55 pm

Networking Session in Cafeteria

SESSION IV: KEYNOTE 12:00 am – 1:00 pm

K-12:

Faster Isn't Smarter: Messages about Math, Teaching, and Learning in the 21st Century

Dr. Cathy Seeley

Straight talk and common sense about some of the most thought-provoking and important issues today. Topics ranging from the impact of rising expectations and the trap of timed tests to the role of technology and the phenomenon of jumping on bandwagons.

LOCATION: Auditorium

1:05 pm – 1:30 pm

Networking Session in Cafeteria