

8:00 – 10:00

Middle School Teachers, you'll like what you see when you visit our Exhibitors in the Duke Energy Convention Center, Grand Ballroom B on Level 3. All are welcome!

Friday Sessions Starting at 8:00

8:00 – 8:50

Convention Center Room 252

Grades 9-12

Carlyle's Method for Solving Quadratics

Students can prove complicated theorems more easily than they realize if the instructor can provide a collaborative structure. Carlyle's Method is an opportunity to review a number of algebraic and geometric concepts and create a good proof.

Speaker: Mark Jaffee, Lorain Admiral King High School, Lorain, OH

8:00 – 8:50

Convention Center Room 262

General

SMART Boarding in the Math Classroom 202: Work SMARTer Not Harder

You know the SMART Board but are looking for the next level. We cover what the one-hour intro could not. Concepts include Gallery, linking, recorder, videos, Airliner, and other hardware/software for your math classroom. Learn tips/tricks plus get KLIK-ed!

Speaker: Bret Gensburg, University of Akron, Akron, OH

8:00 – 8:50

Convention Center Room 264

Grades K-2

"One-More-Than" Project

We will be presenting an action research project about how the one-more-than method worked with our students who are multi-disabled. Other currency and mathematical strategies will be discussed. Our presentation will benefit professionals interested in methods for independent living.

Speakers: Victoria Barteck, Ottawa Elementary, Ottawa, OH
Kris Stillings and Jean Hamel, P.C. ESC, Ottawa Elementary, Ottawa, OH

8:00 – 8:50

Convention Center Room 250

Grades 3-8

Family Fun Math Night

Learn how to put on a family math night in middle school setting. Station ideas that use manipulatives and games, based on 5th and 6th grade standards, and facilitated by 7th and 8th grade students, will be provided. Hints and management ideas will also be shared.

Speaker: Anita J. Cornish, Keystone Middle School, LaGrange, OH

8:00 – 8:50

Convention Center Room 251

Grades 4-8

Beyond the Rules and Into the Why's of Mathematics

As part of a grant project, the presenters conducted a workshop for teachers in grades 4-8 to help understand the "why" behind several math "rules." Find out many of these "why's" and the effectiveness of the workshop.

Speakers: Lynne Pachnowski, The University of Akron, Akron, OH
Linda Saliga, The University of Akron, Akron, OH

8:00 - 9:30

Convention Center Room 263

Grades 3-8

Seeing and Thinking Geometrically

This session will focus on the development of geometric thinking by exploring nets for polyhedra, predicting volume, making two-dimensional drawings of three-dimensional shapes, and developing mental images of three-dimensional shapes.

Speaker: William B. Weber, Jr., The University of Toledo, Toledo, OH

Friday Sessions Starting at 8:30

8:30 – 9:20

Hyatt Buckeye B

Grades K-2

Children Literature for Early Childhood Math Classrooms

Participants will explore children's literature that presents mathematical activities in a n engaging manner. Turn children on to mathematics while instilling a love for reading. *Caps for Sale*, *Amanda Bean's Amazing Dream*, *The King's Commissioner* and more books will be presented.

Speaker: Debora Kuchey, Xavier University, Cincinnati, OH

8:30 – 9:20

Hyatt Buckeye A

Grades 6-8, College

Once You Find the Answer, Then Mathematics Begins

We will find the answer to two problems, and then see how nicely each of the two solutions generalizes. Useful classroom handouts will be provided.

Speaker: Jerry P. Becker, Southern Illinois University, Carbondale, IL

8:30 – 9:20

Hyatt Regency B

Grades 9-12

Making Sense of Statistical Studies

Looking for materials for non-AP Statistics? Want something that is not watered-down AP Stat? MSSS is a set of very interesting investigations with complete analysis of data from surveys, observational studies, and experiments. It's perfect for non-AP Statistics.

Speaker: Jerry Moreno, John Carroll University, University Heights, OH

8:30 – 10:00

Hyatt Regency G

Grades 3-5

Millions, Billions and Double Trouble

Discover innovative, hands-on activities to help students understand very large numbers and different growth patterns using examples from the environment and the global community. Presented games and simulations also enhance students' abilities in measurement, data analysis and graphing. Free activities!

Speaker: Virginia Keen, University of Dayton, Dayton, OH

8:30 – 10:00

Hyatt Regency C

Grades 9-12

Insights into Student Understanding of Algebraic Proofs

Participants will discuss students' understanding of algebraic proofs based on the analysis of student work on a NAEP item. We will look at several problems that can enhance student understanding of the role of algebraic proofs to prove arithmetical generalizations

Speaker: Beatriz S. D'Ambrosio, Miami University, Oxford, OH

8:30 – 10:00

Hyatt Regency E

Grades 9-12

High School Math can be Fun when Integrated with Technology, Literature, Math Lab Activities and Journaling

Hands-on learning, technology and journaling make concepts such as graphs, the Pythagorean Theorem, surface area, volume, solving multi-step equations, and problem solving fun! Lesson ideas include modifications for ELL and special needs students. Participants will receive lesson outlines and a CD.

Speaker: Laura Skjold, Neufeld Learning Systems Inc., London, Ontario, Canada

Friday Sessions Starting at 9:00

9:00 – 9:50

Convention Center Room 250

General

Assessment of Activity-Based Learning versus Traditional Lecture

Description and results of a study used to determine if students taught using an activity-based lesson incorporating the use of manipulatives perform better than students taught in a more traditional method. Examples of both teaching types included in presentation.

Speakers: Ginny Hamilton, Shawnee State University, Portsmouth, OH
Krista Maxson, Shawnee State University, Portsmouth, OH

9:00 – 9:50

Convention Center Room 252

Grades K-2

Make and Take: Counting on Literacy

Books help students make connections to numbers, math, and the real world. Using interactive lessons that include popular children's books, we will make activities and resources that can be taken back to the classroom to help students make mathematical connections.

Speakers: Michele Cosmah, Kilgour/Cincinnati Public Schools, Cincinnati, OH
Melanie Baumann, Fairview/Cincinnati Public Schools, Cincinnati, OH

9:00 – 9:50

Convention Center Room 251

Grades 6-12

Developing Leadership in School Mathematics

How can we increase teacher understanding and student learning? How can we develop leaders who spearhead change in their schools? Research and video of classroom practice will be discussed. Participants will be encouraged to share their experiences in tackling these problems.

Speaker: Judith A. Melillo, Kent State University, Kent, OH
Michael Mikusa, Kent State University, Kent, OH
Teresa Graham, Baldwin Wallace College, Berea, OH

9:00 – 10:30

Hyatt Bluegrass A & B

Grades 3-8

Understanding Fractions and Operations of Addition and Subtraction with Fractions

The purpose is to help teachers develop a deeper understanding of fractions and why the rules for addition and subtraction of fractions make sense. Methods for teaching these concepts will be modeled. Copies of worksheets and notes will be available.

Speaker: Laurie Dunlap, University of Akron, Akron, OH

Friday Sessions Starting at 9:30

9:30 – 10:20

Hyatt Regency B

General

Assessment

This session will provide an overview of developments in mathematics assessment at the Ohio Department of Education, including the Ohio Performance Assessment Pilot Project and responses to the Governor's Education Reform Plan.

Speakers: Karen Daugherty, Ohio Department of Education, Columbus, OH
Brian Roget, Ohio Department of Education, Columbus, OH

9:30 – 10:20

Hyatt Buckeye B

Grades K-2, College

Facilitating Problem Solving with Word Problem in K-2

This session will consider research, including new results, on children's word problem solving, and we will discuss and strategize effective use of word problems with K-2 learners, with a focus on problem solving, representation, and communication processes.

Speaker: Lucia Flevaris, The Ohio State University, Columbus, OH

9:30 – 10:20

Hyatt Buckeye A

Grades 6-12

Understanding Basic Finance

Help your students learn to budget and save. Learn about a course on financial planning with emphasis on maintaining a checking account, opening a savings account and certificates of deposit. Money is earned through homework and test grades, workbook assignments, etc.

Speaker: Deborah Flamm, St. Bernadette School, Amelia, OH and University of Cincinnati

Friday Sessions Starting at 10:00

10:00 – 10:50

Hyatt Regency A

Grades 9-12

Beautiful Mathematical Quilts

Quilts serve as a visual introduction to mathematical concepts and allow students to explore mathematics and gain geometric insights. See, via a PowerPoint presentation, 40 mathematical quilts that encompass 4,000 years of mathematics. These high school topics can be simplified for use with K-8 students.

Speaker: Elaine Ellison, Consultant, Sarasota, FL



Elaine Ellison's talk is sponsored by the Xavier Center for Excellence in Education (XCEED). Since 1998, the center has offered courses in math and science methods, and instructional technology. XCEED offers outstanding professional development programs for in-service educators.

10:00 – 10:50

Convention Center Room 252

Grades 3-5

Creative Writing in the Math Classroom that Meets the Standards

Learn creative ways to get your students writing in the math classroom while meeting the standards. See how students can take familiar everyday things like nursery rhymes and the Pledge of Allegiance and turn them into math! You're students will be engaged and excited about math!

Speaker: Terri Hrina-Treharn, Rootstown Elementary School, Rootstown, OH

10:00 – 10:50

Convention Center Room 250

Grades 6-8, Pre-service

Middle School Fun with Measurement and Geometry

Participants will learn ways to engage middle school students in geometry and measurement. Computer and non-computer activities will be introduced and demonstrated. Participants will leave with materials that can be copied and used in their classrooms.

Speaker: Kevin Dael, Alexander Middle School, Albany, OH

10:00 – 10:50

Convention Center Room 251

Grades 3-8

Game On! Math Games to Promote Critical Thinkers and Strategic Learners

A variety of games will be presented to reinforce basic skills for grades 3 and 4 while promoting critical thinking. Activities will also be given for grades 6-8 in the areas of probability and algebraic reasoning.

Speakers: Gina Reynolds, St. Ignatius School; Hamilton County ESC, Cincinnati, OH
Amy Gillespie, St. Ignatius School; Hamilton County ESC, Cincinnati, OH

10:00 – 11:30

Convention Center Room 264

General

Using the ORC website to Enhance and Enrich Your Teaching

Come and see the new and exciting things that are happening on the Ohio Resource Center website- the place to find best practice and standard aligned lessons for use in any classroom.

Speaker: Darrell A. Heintz, Wapakoneta High School, Wapakoneta, OH

10:00 – 11:30

Convention Center Room 262

Grades 5-8

Transitioning to an Inquiry Approach

Would you like your students to be more engaged in their learning? Activities from research-based curricula such as “Investigations” and “Connected Mathematics Project” will be used to demonstrate methods useful in any classroom. Come learn tips for using inquiry-based methods in your classroom.

Speaker: Karma Vince, McCord Junior High, Sylvania Public School, Sylvania, OH
Natalie Sexton, Robinson Middle School, Toledo, OH

10:00 – 11:30

Convention Center Room 263

Grades 9-12

Making Secondary Mathematics Visual Using Algebra Tiles

You’ll see how successful using manipulatives in a secondary classroom can be. Participants will be actively engaged in using algebra tiles with a variety of concepts using integer operations, combining like terms, distributive property, multiplication and factoring polynomials and completing the square.

Speaker: Lonnie Bellman, CPM Educational Program, Visalia, CA

Friday Sessions Starting at 10:30

10:30 – 11:20

Hyatt Buckeye A

College

An interactive forum for teacher educators to discuss current state and national issues impacting pre-service and continuing education programs. Information about and strategies for addressing these challenges in OMELC/leaders' individual role(s) and as a professional community will be shared.

Speaker: Ohio Mathematics Education Leadership Council

10:30 – 11:20

Hyatt Buckeye B

Grades K-2

Using the Daily Number to Reinforce Math Concepts

Number concepts and vocabulary can be reviewed, reinforced and even introduced through a short daily routine. Obtain new ideas for building understanding of number sense and operations that go beyond just listing equations using the "number of the day."

Speaker: Heidi Weber, Loveland Primary School, Loveland, OH

10:30 – 11:20

Hyatt Regency B

Grades 3-5

If You Give a Moose a Map!

Take a mathematical journey with Maddie Moose down the Appalachian Trail. This culminating unit incorporates computation skills (buying supplies, keeping a checkbook), fractions, geometry, measurement, probability and graphing. This is geared for 4th grade, but adaptable to any grade level. Materials provided.

Speaker: Lisa Carlson, St. Charles School, Kettering, OH

10:30 – 12:00

Hyatt Regency G

General

Once Upon a Time

Join us as we explore teaching mathematics through the wonderful world of trade books in the classroom! Experience a plethora of books well suited for use in the mathematics classroom, as well as ideas for implementing them into your classroom.

Speakers: Rebecca Maggard, Brookville H.S., Eaton, OH
Bonnie Beach, Ohio Dominican University, Columbus, OH

10:30 – 12:00

Hyatt Regency C

Grades 3-8

The Mathematics Processes: A Bridge to Understanding

Participants will focus on using the mathematics processes to develop deeper student understanding of concepts that will benefit their mathematics achievement. We will explore how to use the process standards with fractions, decimals, and percents, as well as, two and three dimensional geometry.

Speaker: Vickie Hesler, State Support Team – Region 10, Kettering, OH

10:30 – 12:00

Hyatt Regency E

Grades 3-8

Metric Measurement is Fun

Metric measurement is everywhere. This session will provide a number of hands-on activities that teachers can use to help student understand the metric system while having fun. Songs, poems, and so much more will bring life to your math classroom as you teach metric measurement

Speaker: Debra Gallagher, Ohio Northern University, Ada, OH

10:30-12:00

Hyatt Regency F

Grades 6-8

Motivating Your Students

In this workshop, middle school math teachers are provided activities, games and questioning methods that will engage even the most reluctant learners.

Speaker: Larry Dorf, Big Ideas Learning, LLC, Erie, PA

Friday Sessions Starting at 11:00

11:00 – 11:50

Convention Center Room 252

Grades 3-12

The Art of Developing Well-Motivated Mathematics Questions

This presentation will describe the creation of mathematics problems imbedded in a mathematical learning game. We will discuss how we went from the standard textbook driven curriculum to authentic, video-based scenarios that will engage students in the learning process.

Speakers: Janet Mannheimer Zydney, University of Cincinnati, Cincinnati, OH
Laura Bristol, Kentucky Center for Mathematics, Highland Heights, KY

11:00 – 11:50 **Convention Center Room 250** **Grades 6-8**

Moving My Cheese with Connect Math

The presentation will deal with my everyday struggles with the connected math series and how I made it work for me in my 7th grade classroom.

Speaker: John Stacy, Norwood Middle School, Norwood, OH

11:00 – 11:50 **Convention Center Room 251** **Grades 6-12**

Spaghetti, Bugs and Trigonometry: Engaging Students with Hands-On Unit Circle Explorations

We share our work developing and implementing a teaching module for introductory level geometry students to explore trigonometry using hands-on materials (e.g. spaghetti) and technology. Student work samples, handouts, and video clips of class instruction will be shared.

Speakers: Michael Todd Edwards, Miami University, Oxford, OH
 Steve Phelps, Madeira High School, Cincinnati, OH

11:00 – 12:30 **Hyatt Bluegrass A & B** **Grades 3-8**

Understanding the Operations of Multiplication and Division with Fractions

The purpose is to help teachers develop a deeper understanding of why the rules for multiplication and division of fractions make sense. Methods for teaching these concepts will be modeled. Copies of worksheets and notes will be available.

Speaker: Laurie Dunlap, The University of Akron, Akron, OH

Friday Sessions Starting at 11:30

11:30 – 12:20 **Hyatt Buckeye A** **General**

Build Your Network: Let OCTM be your Bridge to Collaboration

Would you like to join a group of OCTM members from around Ohio who are interested in exploring a question about mathematics teaching and/or learning together? If so, come to this session to find out how these groups will be organized and how they will collaborate on an ongoing basis throughout the year.

Speaker: Kimberly Yoak, President, Ohio Council of Teachers of Mathematics

11:30 – 12:20

Hyatt Buckeye B

Grades K-12

STEAM3: The Co-Curricular Teaching of Math, Art and Music

The STEAM3 course at Wright State University teaches students to design and teach co-curricular units utilizing the natural overlapping principals of Music, Art, and Math, thereby enhancing the learning and exciting students about these subject areas.

Speakers: Bill Jobert and Ben Montague, Wright State University, Dayton, OH

Friday Sessions Starting at 12:00

12:00 – 12:50

Convention Center Room 252

Grades K-5

PANEL: Curious about Inquiry Methods?

Come listen to panelists sharing experiences regarding inquiry methods of instruction and learn some ideas about how to shift the thinking for students and teachers to effectively teach and learn through a reform-based curriculum. Bring your questions!

Panelists: Tonda Wallace, Reading Hilltop Elementary, Reading, OH
Mary Beth Fosse, Reading School District, Reading, OH

12:00 – 12:50

Convention Center Room 250

Grades 3-8

Learn Concepts and Procedures through Math Songs

Experience another way to reinforce important math topics through singing math songs. Motivate your students, review math content, and have fun, too! All songs address specific Ohio Academic Content Standards Grade Level Indicators.

Speaker: JoMarie Kutscher, Perry Local School District, Massillon, OH

12:00 – 12:50

Convention Center Room 251

Grades 3-8, College

101* Ways of Teaching Number Sense to Pre-Service Teachers (*in base 2)

Getting pre-service teachers to reexamine their understanding of what the arithmetic operation of addition, subtraction, and multiplication and division really mean can be somewhat difficult. To examine the meaning of “borrow” and “carry,” what better way than operating in different bases?

Speakers: Sr. Jeanne Moenk, SND, Notre Dame College, South Euclid, OH
Martha Frank, Central Michigan University, Mt. Pleasant, MI

12:00 – 12:50

Convention Center Room 264

Grades 6-12

Web 2.0 in Mathematics

This session will look at a variety of mathematics activities that incorporate Web 2.0 tools. Teachers will walk away with activities mapped to NCTM and Ohio Standards that engage today's learners in creative and interactive ways.

Speaker: Erin Schultz, Butler Technology Career and Development Schools,
Fairfield Township, OH

12:00 – 12:50

Convention Center Room 262

Grades 6-12, College

TI Graphing Calculator Emulators and SMART Boards

Experience how to creatively integrate emulators for the TI-73, TI-83/84, TI-SmartView, TI-89/92/Voyage, and the new TI-Nspire on a SMART Board. Obtain some of these emulators for free while getting unique teaching ideas for your classroom.

Speaker: Tom Reardon, Fitch High School, Poland, OH

12:00 – 1:30

Convention Center Room 263

Grades 3-5

What Were They Thinking?

Released items from Ohio's Achievement Tests provide insight into students' thinking and problem solving strategies. In this interactive session, participants will examine student responses from grades 3 and 4 Ohio Achievement Tests and discuss implications for curriculum and instruction.

Speaker: Vicky Kirschner, Ohio Department of Education, Columbus, OH

Friday Sessions Starting at 12:30

12:30 – 2:00

Hyatt Regency C

Grades 3-5

Using Cuisenaire Rods to Develop a Conceptual Understanding of Fractions

Cuisenaire Rods will be used to help participants develop a conceptual understanding of fractions. Participants will explore fractional computations, equivalent fractions and reducing fractions to simplest form using Cuisenaire Rods.

Speaker: Debora Kuchey, Xavier University, Cincinnati, OH

12:30 – 2:00

Hyatt Regency G

Grades 3-8

Making Sense with Measurement

In this session, we will explore some activities to help students learn or review measurement vocabulary and concepts concerning circles, polygons and extensions to polyhedra. Through these activities, students are better able to visualize and make sense of formulas.

Speaker: Cynthia Barb, Kent State University Stark Campus, Uniontown, OH

12:30 – 2:00

Hyatt Regency E

Grades 6-8

Engaging Middle Schoolers with Creative Presentations and Authentic Assessments

Enhance your middle school math curriculum with creative activities, projects and websites. Participants will construct figures to enhance special awareness, view websites to provide engaging lessons, and use hands-on activities to differentiate your classroom.

Speaker: Michele Head and Karen Easley, Immaculate Heart of Mary School, Cincinnati, OH

12:30 – 2:00

Hyatt Regency F

Grades 6-8

Understanding Proportional Reasoning for Middle School Teachers and Students

Proportional Reasoning... The more we understand it the more we can help students understand it. Come solve a few problems, look at student work for these same problems, and share in quality discussion about this crucial middle school topic.

Speaker: Jim Mamer, Rockway School, Clark-Shawnee School District, Springfield, OH

1:00 – 2:30

Elementary School Teachers, you'll like what you see when you visit our Exhibitors in the Duke Energy Convention Center, Grand Ballroom B on Level 3. All are welcome!

Friday Sessions Starting at 1:00

1:00 – 2:00 **Hyatt Regency A** **KEYNOTE: Len Pikaart Memorial Session**

Named in honor for one of Ohio's outstanding mathematics educators, this session is designed especially for pre-service teachers, mentors, and those new to mathematics teaching.

Answering the Call to Teach Mathematics and Avoiding Being Disconnected

Teaching can be a highly rewarding vocation, but even some of our best teachers find it difficult to maintain momentum when external factors get in the way. We will explore ways in which novice mathematics teachers stay focused on the profession and become outstanding career educators.

Speaker: Jeffrey Wanko, Teacher Education, Miami University, Oxford, OH

1:00 – 1:50 **Hyatt Buckeye A** **General**

So Let's Talk Mathematics

This session will focus on how students perceive what is said and done in the mathematics classroom. Areas of discussion will include: confusing terminology, misconceptions and what you can do for your students to maximize understanding and learning.

Speakers: Jack Albers, Lehman Catholic High School, Celina, OH
 Marilyn Link, Coldwater, OH

1:00 – 1:50 **Hyatt Buckeye B** **General**

Trained Teachers + Everyday Math = Successful Math Students

This presentation is two-fold. Initially, information will be shared concerning the process of choosing an effective mathematics program for grades K-6. Secondly, lessons will be demonstrated enabling teachers to create engaging math lessons for OAT success. Handouts will be available.

Speakers: Carol Miller, Roosevelt Elementary, Hubbard, OH
 Lucille Esposito, Hubbard Board of Education, Hubbard, OH

1:00 – 1:50 **Convention Center Room 251** **Grades 3-5, College**

Multiplication as Original Sin: Algorithms and Attitudes in the Elementary Classroom

This presentation describes original research examining pre-service elementary teachers' beliefs towards student-invented algorithms. Participants will analyze different algorithms and discuss the role these inventions play in the classroom.

Speaker: Jonathan Thomas, Kentucky Center for Mathematics, Highland Heights, KY
 Shelly Harkness, University of Cincinnati, Cincinnati, OH

1:00 – 1:50 **Convention Center Room 250** **Grades 6-12**

What Do You Mean, More than One Answer?

Probability: It all depends on what you flip and onto what you flip it.

Speaker: Paul R. Lenz, Miller City High School, Ottawa, OH

1:00 – 1:50 **Hyatt Regency B** **Grades 9-12**

Triangle Investigations on the TI Nspire

We use the TI Nspire to construct a triangle and the medians and investigate the relationships found as a vertex is changed. We will then repeat with the altitudes, perpendicular bisectors of the sides and the angle bisectors.

Speaker: Fred Schmitz, Oakwood High School, Oakwood, OH

1:00 – 1:50 **Convention Center Room 252** **Grades 9-12, College**

Dual Credit: A Bridge from High School to College

Participants will learn how students can receive college credit for high school courses such as Pre-Calculus, Calculus, Statistics and more.

Speaker: Joel R. Helms, University of Cincinnati, Blue Ash, OH

1:00 – 2:30 **Hyatt Bluegrass A & B** **Grades 9-12**

Sharing My Favorite Ohio Council of Teachers of Mathematics (OCTM) High School Contest Problems (D. Bollenbacher)

This former OCTM Contest Director (and still author) will share his favorite GEOMETRY-RELATED problems from former contests. These problems, worked together, can be used in your high school classroom Monday morning for enriched teaching and learning.

Speaker: Duane Bollenbacher, Bluffton University, Bluffton, OH

Friday Sessions Starting at 2:00

2:00 – 2:50

Hyatt Buckeye A

General

How to Enhance Your Teaching of Mathematics Using the Japanese "Open Approach"

We will discuss the "open approach" to teaching mathematics, then look at examples and discuss developing detailed lesson plans and assessment of student learning. We will discuss how to incorporate this approach in your classroom. (Useful classroom handouts will be provided.)

Speaker: Jerry P. Becker, Southern Illinois University, Carbondale, IL

2:00 – 2:50

Hyatt Buckeye B

Pre-service, General

Educator Licensure

The Ohio Department of Education will present information about teacher licensure, rules and regulations, ins-and-outs, and answer questions.

Speaker: James Miller, Ohio Department of Education, Columbus, OH

2:00 – 2:50

Convention Center Room 252

General

Meet the Needs of All Your Students with a 4-step Differentiation Method

Learn and try out a teacher tested 4-Step lesson differentiation method that addresses multiple learners. This 4-Step method helps teachers plan, prepare, and assess student learning meeting the multiple learning needs of students and mathematics standards that teachers face daily.

Speaker: Janet M. Herrelko, University of Dayton, Dayton, OH

2:00 – 2:50

Convention Center Room 262

General

SMART Boarding in the Math Classroom 303: Document! Develop! Deliver!

This presentation will show how using a SMART Board, or not, a teacher can save/share their notes on the Internet, Podcast, and change how we access our students. Tips/Tricks will be shared. Bring your questions and get the answers.

Speaker: Bret Gensburg, University of Akron, Akron, OH

2:00 – 2:50

Convention Center Room 250

Grades 6-12

Who Benches More? Proportional Reasoning for the Little Guy or Gal

Students who use proportional reasoning have the ability to make the argument for the smaller person. Attendees will gain an overview of proportional reasoning based on the research of Susan Lamon. Activity ideas and corresponding handouts will be shared.

Speaker: Brian Richeson, Glenwood Middle School, Canton, OH

2:00 – 2:50

Convention Center Room 264

Grades 6-12, College

Introduction to Geogebra

Participants will be introduced to the FREE dynamic Mathematics Software GeoGebra. GeoGebra joins Algebra, Geometry, Calculus and Statistics in one dynamic package. This java-based software runs on Windows or Macs.

Speaker: Steve Phelps, Madeira High School, Loveland, OH

2:00 – 2:50

Convention Center Room 251

Grade 9, General

Mental Computation: Students' Friend or a Foe?

Should mental computation be taught to students? Is mental computation a 'skill' that just few students possess? How could we teach mental computation to promote number sense?

Speaker: Nirmala Naresh, Miami University, Oxford, OH

2:00 – 3:30

Convention Center Room 263

Grades 3-5

Getting Kids to Think! Teaching Problem Solving in Math

This hands-on presentation will give teachers ideas for adding a twist of problem-solving to their everyday math lessons. This one is too good to miss!

Speaker: Staci McDaniel, Citizens Academy, Cleveland, OH

Friday Sessions Starting at 2:30

2:30 – 4:00

Hyatt Regency B

Grades K-5

Developing Number Sense through Place Value

Come participate in hands-on investigations delivered through an inquiry-based model derived from research about how children learn. Teams of participants, working in collaborative groups, will experience actual classroom lessons, using a variety of manipulatives, that help students increase their number sense through a conceptual understanding of place-value system.

Speaker: Donna Gunderson, Clemson University, Clemson, SC

2:30 – 4:00

Hyatt Regency G

Grades K-5

Camping In Math Style

Join us as you hike to several math “trail posts,” recording mathematical ideas in your camp journal. Learn how to organize and replicate a Math Camp In – an exciting experience for students of all ages! Handouts and S ‘mores provided!

Speakers: Kelli Shrewsberry, Teaching & Learning Collaborative, Columbus, OH
Jessica Cahill, Buckeye Woods Elementary, Grove City, OH

2:30 – 4:00

Hyatt Regency F

Grades 3-5

Concept Attainment and Critical Thinking in Your Classroom

Multiple activities encompassing several strands will be presented through the Concept Attainment Model. Concept-Attainment activities are essential in the teaching of young children because it makes topics and examples more concrete while focusing on critical thinking.

Speakers: Ruth Ann Murphy, Marshall University, Wheelersburg, OH
Thelma Isaacs, Marshall University, Wheelersburg, OH

2:30 – 4:00

Hyatt Regency C

Grades 3-8

Being Successful in a Co-Teaching Classroom

We will be taking a look at different co-teaching approaches. There will be discussions on the pros and cons of each. We will also share tips on making inclusion successful.

Speakers: Beth Hensley, Edgewood Middle School, Trenton, OH
Tara Gullett, Edgewood Middle School, Trenton, OH
Brandy Salyers, Edgewood Middle School, Trenton, OH

2:30 – 4:00

Hyatt Regency E

Grades 6-8

Middle School Math can be Fun when Integrated with Technology, Literature, Math Lab Activities and Journaling

Integrating literature, hands-on learning, technology and journaling make concepts such as fractions, graphs, the Pythagorean Theorem, surface area, volume, and problem solving fun! Lesson ideas include modifications for ELL and special needs students. Participants will receive lesson outlines and a CD.

Speaker: Laura Skjold, Neufeld Learning Systems Inc., London, Ontario, Canada

Friday Sessions Starting at 3:00

3:00 – 3:50

Convention Center Room 250

General

You Don't have to be a Magician! But it helps!

Step right up! Enter the wonderful world of recreational math. See enthusiastic teaching modeled and math presented in a spirit of play with activities that motivate students to become active learners. Experience the beauty and fun of mathematics!

Speaker: Charles Sonenshein, Wright State University, Dayton, OH

3:00 – 3:50

Hyatt Buckeye B

Grades 3-8

Fraction Multiplication: Ideas for Meaningful Instruction

This session will explore different models to help students understand what it means to multiply fractions. We will consider how these models can support the development of number sense and lead students to develop an algorithm for fraction multiplication.

Speaker: Debra Johanning, The University of Toledo, Toledo, OH
Deborah Gray, East Side Central Elementary School, Toledo, OH

3:00 – 3:50

Hyatt Buckeye A

Grades 9-12, College

Exploring Non-Euclidean Geometry through Taxicab Geometry in a High School Setting

Taxicab Geometry is a non-Euclidean Geometry accessible to all students. We will discuss taxicab geometry's relation to frequently studied properties in the Euclidean geometry studied in high school. We will also discuss various methods of implementation in a high school classroom.

Speakers: Nick Heineke, Northern Kentucky University, Alexandria, KY
Beth Noblitt, Northern Kentucky University, Alexandria, KY

3:00 – 3:50

Convention Center Room 252

Grades 9-12

Mu Alpha Theta Mathematics Honor Society

Challenge your best students to extend their mathematics education outside the classroom. Mu Alpha Theta offers top mathematics students an opportunity to compete and network with other outstanding students around the world. Many scholarships are available only to members of Mu Alpha Theta. Learn how to make your students eligible.

Speaker: Elizabeth C. Botzner, Lakota West High School, West Chester, OH

3:00 – 3:50

Convention Center Room 251

Grades 6-8

March Madness

Conduct a college investigation, by the numbers. This activity integrates data, probability, and geometry. This is an interdisciplinary project.

Speakers: Mary Rutledge, Madeira Middle School, Cincinnati, OH
Sharon Fitter, Madeira Middle School, Cincinnati, OH

3:00 – 4:30

Hyatt Bluegrass A & B

Grades K-5

Math Literature that is Fun!

This presentation is an interactive hands-on workshop. Teachers will get activities for immediate classroom use. The literature chosen is fun, interactive and collaborative. Teachers will leave energized and prepared to motivate their students with a literature-rich math environment.

Speaker: Kristyn Warren, Saxon Publishers/Houghton Mifflin, Macedonia, OH

4:00 – 5:00

Convention Center Room 262

General

OCTM Business Meeting

The annual OCTM Business Meeting is an excellent opportunity for you to learn more about your organization's leaders and operations. Come meet fellow OCTM members and participate in the decision-making.

4:30 – 6:00

Hyatt Sungarden

**Pre-service and New Teachers,
OCTM Leaders, University Faculty**

Pre-service and New Teacher Reception

Pre-service and new teachers are invited to network with colleagues from around the state, students from other universities, OCTM Leaders and university faculty. Refreshments will be served.

6:00

Hyatt Regency A

Ticket Required

Ohio Council of Teachers of Mathematics Awards Reception

Celebrate the work of teachers from around Ohio who were selected for this year's awards.