



**January 29-31,
2009**

**Hot Springs,
Arkansas**

***The 6th Hot Springs
Teachers Teaching with
Technology™
Regional Conference***

Sponsors:

Arkansas Council of Teachers of Mathematics

Arkansas School for Mathematics, Sciences and the Arts

UCA Arkansas Center for Mathematics and Science Education

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Welcome Mathematics and Science Educators!

Visit Texas Instruments™ in the Exhibits Area

Schedule of Events:

Thursday, January 29

Complimentary Reception: 6:30 – 9:00 p.m.—Arlington Hotel Conference Center
ASMSA Steppers Entertainment--Trivia Night and Door Prizes

Friday, January 30

Continental Breakfast: 8:00-9:00 a.m.—ASMSA Cafeteria

Morning Sessions: 9:00 – 10:30 a.m.

10:45 – 12:15 p.m.

Lunch Break: 12:00 p.m. – 1:00 p.m.—Boxed Lunches, ASMSA Cafeteria

To reach the cafeteria, take the 2nd floor walkway to the residential building and go to the 3rd floor.
(if prepaid—or lunch on your own)

Afternoon Sessions: 1:00 – 2:30 p.m.

2:45 – 4:15 p.m.

Saturday, January 31

Continental Breakfast: 7:30-8:30 a.m.—ASMSA Cafeteria

Morning Sessions: 8:30 – 10:00 a.m.

10:15 – 11:45 a.m.

Arkansas School for Mathematics, Sciences and the Arts

Visit the Exhibitors: Third Floor, Room 2307

Friday 8:30-4:00

Saturday 8:00-10:30

Workshop Sessions: Second through Fifth Floors

Shuttle: Arlington/ASMSA

Beginning one hour before first session Friday and 30 minutes before first session Saturday

Running as needed during beginning and ending conference times

2009 T³ Regional Conference Steering Committee

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Melanie Nichols, ACTM Past President

Walt Levisse, Charles Mullins

Faculty at ASMSA

Registration—

Staff at ACMSE

Program—

Aimee Evans

Exhibits—

Brad Roberts, Tim Brister

Reception—

Tracy Watson, Corey Bobby

Special Program Features

Navigator Beginner Series—Four consecutive sessions for teachers who have access to Navigator systems they aren't sure how to use. All sessions held in Room 2505 (Computer Lab) for hands-on experience running the system. See program pages for details.

- 9:00-10:30—Out of the Box
- 10:45-12:15—Learn Check and Quick Poll
- 1:00-2:30—Activity Center
- 2:45-4:15—Bell-to-Bell: Typical Day in a Navigator Classroom

Elementary Sessions—Based on the small number of people who indicated interest in TI-10 and TI-15 Short Courses, the program committee opted to offer regular conference sessions for elementary teachers. The sessions are predominantly scheduled into rooms 2207 and 2403. Please examine all session options, as there are sessions located in other rooms that may meet your needs or interest you. See program pages for details.

Exhibitors—Located on the Third Floor

Texas Instruments-Exhibitor and Sponsor

Robb Wilson, Terry Green, Ellen Johnston

Great Source—Jim Simpson
Prentice Hall—Jerry Gatlin
Holt-McDougal—Phyllis Tucker
Rigby—Deborah Simpson
School Savers—Margaret Wilson
Mid-America Museum
Baymont Hotel of Hot Springs—Jackie Harrerson
Arkansas State Teachers Association—Ronnie Flowers
AR School for Mathematics, Sciences and the Arts—Melanie Nichols
ACTM—Susan Creekmore
Bedford, Freeman & Worth Publishing—Katelynn Reilly
Steck Vaughn Publishing—Jim Simpson
Flowers' Math Music CD's—Ronnie Flowers
Online Technologies—Kevin Little
Harding University Graduate Programs—Tim Brister
Freckle Frog—Sadie Nuffer
Office of Distance Education—Melanie Nichols

Workshop Sessions:

Friday, January 30

#1 9:00-10:30
Room 2207

Elementary Mathematics
Beginner/Intermediate: TI-10

The Power of “10” in the Classroom

Marsha Burkholder, T³ National Instructor, Columbus City Schools, OH

This session uses the TI-10 calculator and children’s literature to teach math concepts. Especially directed toward grades K-2.

#2 9:00-10:30
Room 2301

Elementary and Middle Math/Science
Novice: TI-73

A Novice Start to the TI-73

Angelia Carlton, Northesast Arkansas Education Cooperative

Participants will be introduced to the TI-73 and its many uses.

#3 9:00-10:30
Room 2403

Middle School Mathematics
Novice: TI-73, Smart View

Using the TI-73 and APPS to Teach Probability and Area Formulas

*Linda K. Griffith, T³ National Instructor, University of Central Arkansas and
Patricia Nicosia, Sul Ross State University Rio Grande College, TX*

The ProbSim and AreaForm APPS will be used on the TI-73 to teach dependent probability and area formulas. Connections will be made to problem solving and manipulatives.

#4 9:00-10:30
Room 2302 (Computer Lab)

All Grades/All Subjects
Intermediate: Podcasting/Netcasting

You’ve recorded your MP3. Now, make it a podcast.

Daniel Moix, Arkansas School for Mathematics, Science and the Arts

If you’re interested in reaching your students using netcasting/podcasting but you got bogged down by XML, RSS, and other technologies that make the process seem impossible, come to this session and see how easy this can be if you use the right (free) tools.

#5 9:00-10:30
Room 2409

Algebra I
Beginner: TI-84 Family

TI-84 for Beginners

Genea Tharp, Mayflower High School, AR

Learn to use student generated data entered into lists to create and analyze scatter plots. Will utilize lists, stat plot, stat edit, and linear regressions.

#6 9:00-10:30
Room 2309

Algebra II, Statistics
Intermediate: TI-84 Family

The Normal Distribution and the TI-84

Walt Levissee, Arkansas School for Mathematics, Sciences and the Arts

The TI-84+ Silver Edition will be used to explore the Normal Distribution.

#7 9:00-10:30
Room 2401

Algebra I, Algebra II, Geometry (ACT/SAT)
Novice: TI-84 Family

Raising the Score: Test-taking Strategies with the TI-84

*Cindy Cunningham, Nemo Vista High School, AR and
Jeana (Erbach) Williams, Greenbrier High School, AR*

This session will offer a variety of TI-84 calculator strategies to help students raise their scores on end-of-level exams, and the ACT/SAT tests.

#8 9:00-10:30
Room 2521

Middle School Mathematics
Beginner: TI-84 Family

A Game to Help Students Learn Factors

Dennis Kern, Texas A&M University (retired), Texarkana, TX

This presentation introduces a game to help students learn factors. A calculator version of the game is presented to challenge the students to enhance their problem solving skills as well. This is an enhanced version of the game presented last year.

#9 9:00-10:30
Room 2505 (Computer Lab)

All Grades/All Subjects
Novice/Beginner: TI-Navigator

Navigator Beginner Series: Out of the Box

Tracy Watson, T³ National Instructor, University of Arkansas at Little Rock

Do you have a TI-Navigator system sitting on your shelf that you aren't sure how to use? This is the first session in a series to help you figure out how to get started. In this session you will learn what all the parts are, how to hook up the system and get it running, and how to enter a class and get the students logged in. You will also capture screens. Computer lab; hands on.

#10 9:00-10:30
Room 2407

Algebra I, Algebra II
Intermediate: TI-84, TI-Navigator

No Snooze Activities to Power Students into Algebra using Smart Teaching Strategies

*Marcelline Carr and Vanessa Cleaver, T³ Regional Instructors
Little Rock School District, AR*

This will be an interactive session using the TI-Navigator System and the TI-84+ graphing calculator designed to keep your whole class engaged and enhance algebraic thinking.

#11 9:00-10:30 Middle School Math, Algebra I, Algebra II, Precalculus, Calculus, Physics
Room 2502 Beginner: TI-Nspire, TI-Nspire CAS

Exploring Rates of Change on the TI-Nspire

Dr. Ann M. Bledsoe, T³ Regional Instructor, Columbia College, MO

This session will allow participants to investigate rates of change as they consider various time vs. velocity graphs and time vs. volume graphs. This exploration is appropriate for those who teach graphing at any grade level 7-12+.

#12 9:00-10:30 Geometry
Room 2503 Intermediate: TI-Nspire

A Comparison between Cabri Jr. and Nspire Geometry

Terrie T. Poehl, Ph.D., T³ Regional Instructor, Louisiana Tech University

Use of the Cabri Jr. APP on the TI-84+ SE provides a good venue for students to learn about rigid motions (reflections, rotations, translations) as compared to a geometry page in an Nspire file. Both are excellent at the high school level.

#13 9:00-10:30 Algebra II, Precalculus
Room 2504 Novice: TI-Nspire CAS

Beginner TI-Nspire CAS in Algebra II and Precalculus

Fan Disher, T³ Regional Instructor, Mandeville High School, LA

Discover the excitement of a TI-Nspire and how it can be used in Algebra II and Precalculus to engage your students.

#14 9:00-10:45 Middle School Science, Chemistry, Physical Science, Biology
Room 2203 Intermediate: TI-84, CBL 2

Data Collection with the TI-84+ and the pH Probe

Chris Coker, Camden Fairview High School, AR

Using the TI-84+ and the Vernier pH probe, participants will take data on one acid rain lab and one household chemicals lab.

#15 10:45-12:15 Elementary Mathematics
Room 2207 Beginner/Intermediate: TI-15, TI-73

Teaching Fractions with the TI-15 and TI-73 Calculators in the Elementary Classroom

Marsha Burkholder, T³ National Instructor, Columbus City Schools, OH

This session uses the TI-15 calculator to teach fractions in grades 3-5. During this session, teachers will learn to use the fraction keys on the TI-15 and will learn to play fraction games on the TI-73.

#16 10:45-12:15
Room 2301

Middle School Math/Science
Beginner: TI-73, CBR 2

A Tall Story Using the TI-73 and CBR

Angelia Carlton, Northeast Arkansas Education Cooperative

Participants will explore their rate of growth (height) at various ages.

#17 10:45-12:15
Room 2403

All Grades/All Subjects
Beginner: Interwrite School Pad

Using the Interwrite School Pad to Enhance Student Learning

Kim Scarbrough, Hoxie High School, AR

The Interwrite School Pad can be used for any subject and any grade level. The wireless pad allows you to prepare lessons in advance, as well as annotate, print, or email them. Students can even work or explain problems from their desks, allowing you to include all types of learners in lessons. Use it to work with other software on your computer (Sketchpad, texts, TI-Smartview, internet).

#18 10:45-12:15
Room 2409

Middle School Math, Algebra I, Algebra II
Beginner: TI-73, TI-84 Family

The TI Graphing Calculator is Your Friend

Deborah Roberts, Henderson State University, AR

Use the graphing calculator as a tool to understand math functions. Using AIMS activities to collect data and input this data into lists. Show your students how to determine if a function is linear, quadratic, or exponential, then display and analyze this data.

#19 10:45-12:15
Room 2302 (Computer Lab)

All Grades/All Subjects
Novice: TI-Smartview

TI-Smartview for Beginners

Heather Hardin, McGehee High School, AR

Come learn the very basics of TI-Smartview and all that it can do. Your classroom will never be the same. This session is presented in a computer lab so you can operate Smartview "hands-on."

#20 10:45-12:15
Room 2401

Algebra I, Algebra II
Novice: TI-84 Family

Solving Equations with the TI-84

Ida Umphers, University of Arkansas at Little Rock

Using the Equation Solver function on the TI-84 to solve linear and quadratic equations.

#21 10:45-12:15
Room 2402

Physics, Precalculus/Trig, Calculus
Intermediate: TI-84, CBL 2

Electrical Energy Generation: Estimating Area Under a Data Driven Curve

Tim Trawick and Shiloh Harder, Conway High School West, AR

Calculations of power and energy in electrical systems drives the need for estimation of area. Electrical measurements of voltage and current put out by a hand crank generator will be done using voltage and current probes.

#22 10:45-12:15

Room 2505 (Computer Lab)

All Grades/All Subjects

Novice/Beginner: TI-Navigator

Navigator Beginner Series: Learn Check and Quick Poll

Corey Bobby, T³ National Instructor, Benton Public Schools, AR

Now that you have the Navigator ready and the students logged in, what do you do? This is the second session in a series to help you figure out how to get started. In this session you will learn how to use Quick Poll and save the results, how to use Learn Check to pre-plan Quick Poll questions, how to use Learn Check answer files with existing worksheets, and how to pull back results into Class Analysis. Computer lab; hands-on.

#23 10:45-12:15

Room 2407

Algebra I, Algebra II, Geometry, Precalculus

Beginner: TI-84, TI-Navigator

Mathletes...get your head in the game

Tonia Crow and Jennifer Garner, Cabot High School, AR

Teachers will use TI-Navigator to engage, excite, and enhance student learning. The sports driven activities will motivate students to apply mathematical concepts. Handouts provided. May be used without Navigator.

#24 10:45-12:15

Room 2309

Calculus

Intermediate: TI-89

The TI-89 and the AP Calculus Exam

Charles Mullins, Arkansas School for Mathematics, Sciences and the Arts

Students may use both the TI-84 and the TI-89 on the AP Calculus Exam. The session will be a hands-on look at problems from some previous AP Exams where the use of the TI-89 would be advantageous.

#25 10:45-12:15

Room 2502

Precalculus, Calculus

Intermediate: TI-Nspire CAS, Go! Motion Probes

Time and Velocity Graphs with the TI-Nspire CAS and Go! Motion Probes

Dr. Ann M. Bledsoe, T³ Regional Instructor, Columbia College, MO

In this session, participants will explore time vs. velocity graphs to generate important ideas and concepts of calculus (and precalculus). The TI-Nspire CAS and the Go! Motion probe will be used as tools for this exploration.

#26 10:45-12:15
Room 2503

Algebra I, Algebra II
Beginner/Intermediate: TI-Nspire

Mathematics the TI-Nspire Way

Terrie T. Poehl, Ph.D., T³ Regional Instructor, Louisiana Tech University

A graphing handheld with 27.8 MB of memory eliminates the need of a computer lab setting for mathematics teachers while having quality technology for instruction.

#27 10:45-12:15
Room 2504

Physics, Precalculus
Intermediate: TI-Nspire, CBR2

Data collection and analysis with the TI-Nspire

Linda Barnes, T³ Regional Instructor, Ouachita River School District, Oden High School, AR

We will use a CBR and pendulum to collect data and participants will learn how to save the collected data and find a model to fit using the special features of the TI-Nspire.

#28 10:45-12:15
Room 2506

Geometry, Algebra II, Precalculus
Beginner/Intermediate: TI-Nspire, TI-Nspire CAS

A Bewitching Construction

Bill Caroscio, T³ National Instructor, NY

An interesting construction will be used to look at an interesting locus! Come and explore.

#29 1:00-2:30
Room 2207

Elementary Mathematics
Beginner: FLIP Videos

Flips Lead to Instructional Planning

*Pam Allen, Wilbur D. Mills Education Cooperative, AR and
Nancy Via, Arch Ford Education Service Cooperative, AR*

Teachers will become familiar with using the FLIP videos to capture and assess students' mathematical thinking to enhance and lead instructional decisions for their classrooms.

#30 1:00-2:30
Room 2403

Elementary/ Middle School Mathematics
Beginner: TI-10, TI-15, TI-73, TI-84

It's OK, Push My Buttons!

Kevin Simms, T³ Regional Instructor, Salem City Schools, VA

Use calculators to promote critical thinking skills. Explore activities that require students to use calculators to investigate mathematical concepts rather than merely as a computational tool.

#31 1:00-2:30
Room 2301

Middle School Mathematics
Beginner: TI-73

Patterns and Pipe Dreams

Tim Brister, Harding University, AR

Can you actually get a linear pattern from spinning different lengths of pipe? Come find out as we explore linear patterns in pipes, tables, and different units of measurement.

#32 1:00-2:30 Algebra I, Algebra II, Geometry, Precalculus, Calculus
Room 2302 (Computer Lab) Intermediate: Microsoft Office

Creating Interactive Excel Templates for Concept Demonstration

Dr. Steve Armstrong, LeTourneau University, TX

Spreadsheets offer multiple ways to display mathematical relationships: numerical, graphical, algebraic. We will investigate ways to make them interactive with text entry, sliders, and radio buttons.

#33 1:00-2:30 Precalculus
Room 2309 Intermediate: TI-84 Family

Build a Parabolic Reflector while Learning Conic Sections

Bruce Turkal, Arkansas School for Mathematics, Sciences and the Arts

First we will review parabolic equations. Then participants will actually start construction of a parabolic reflector just as their students will do in the classroom. LIMIT 20 PARTICIPANTS.

#34 1:00-2:30 Algebra I, Algebra II, Geometry
Room 2409 Beginner: TI-84 Family, Cabri Jr.

Discovering Geometric Relationships with Cabri Jr.

Tracy Watson, T³ National Instructor, University of Arkansas at Little Rock

Cabri Jr. is a powerful application allowing students to discover relationships between geometric objects. But how do we expect students to discover the “beyond basic” geometric relationships? By creating a scatter plot of numerical data obtained from Cabri Jr., students can “see” there is a connection between certain geometric objects. Join me to experience this type of student discovery.

#35 1:00-2:30 Middle School Math, Algebra I
Room 2401 Novice: TI-84 Family

Using Algebra 1 Part 1 Application to teach graphing

Ronnie Flowers, Bentonville Public Schools, AR

Participants will use the TI-83+, TI-84+ or TI-Nspire with the TI-84 keypad to explore all of section three of the Alg1prt1 APP to give notes as well as practice graphing using games.

#36 1:00-2:30 All Grades/All Subjects
Room 2505 (Computer Lab) Novice/Beginner: TI-Navigator

Navigator Beginner Series: Activity Center

Tony Timms, T³ National Instructor, Southeast Arkansas Education Cooperative

Now that you have seen how to do questioning and assessment, how do you use the Navigator to really teach mathematical concepts? This is the third session in a series to help you figure out how to get started. In this session you will learn how to use the Activity Center, the mathematics nerve center of TI-Navigator. Allow students to contribute points, equations and data to a class interactive graphs/equations/lists/plots environment. Computer lab; hands-on.

#37 1:00-2:30
Room 2407

Middle School Math, Algebra I
All Levels: TI-73, TI-84, TI-Navigator

TI MathForward: A Program for Improving Student Success in Mathematics

Ruth Casey, T³ National Instructor, TI MathForward

Come learn about the research-based components designed to function as a system to narrow the achievement gap. Special attention will be given to the role of formative assessment and the implementation of technology (TI-Navigator) to meet the instructional needs of a diverse population. This systemic model for middle school mathematics improvement was developed through collaboration between Texas Instruments and several urban districts across the country.

#38 1:00-2:30
Room 2502

Calculus
Intermediate: TI-89, TI-Nspire CAS

Got Calculus?

Jean Pharr, Fayetteville High School (retired), AR

Help your AP Calculus students become better prepared for the AP exam. Selected calculus topics will be demonstrated using the TI-89's and the Nspire CAS calculators.

#39 1:00-2:30
Room 2503

Geometry
Beginner/Intermediate: TI-Nspire

Investigating Perpendicular and Angle Bisectors

Aimee L. Evans, T³ Regional Instructor, Arch Ford Education Service Cooperative, AR

Participants will use a prepared lab to define and investigate properties of perpendicular bisectors and angle bisectors. We will use a spreadsheet to capture measurements from a sketch to analyze relationships.

#40 1:00-2:30
Room 2504

Algebra I, Algebra II, Geometry
Novice: TI-Nspire, TI-Nspire CAS

Using the TI-Nspire in the Classroom

Michelle Bonds, T³ Regional Instructor, Bald Knob High School, AR

This session will include the basics of TI's newest technology: the TI-Nspire. Basic functions and activities for Algebra I through Algebra II will be shown.

#41 1:00-2:30
Room 2506

Algebra I, Algebra II, Precalculus
Beginner: TI-Nspire, TI-Nspire CAS

Investigating Probes-An Nspired Approach

Michelle Goetz, Villa Duchesne, MO

Come be Nspired by data collection! Find out how your favorite probes work with the Nspire. Temperature probe, motion detector, and more...

#42 2:45-4:15
Room 2207

Elementary Mathematics
Beginner/Intermediate: TI-15

Using the TI-15 in the Elementary Classroom

Marsha Burkholder, T³ National Instructor, Columbus City Schools, OH

In this session teachers will use the TI-15 calculator to teach a variety of math concepts. Most appropriate for grades 2-5.

#43 2:45-4:15
Room 2403

Elementary Math and Science
Novice: Vernier Probes

Ready! Set! Go!

*Amy Adair, Harding University, AR and
Vicki Garland, Wilbur D. Mills Education Cooperative, AR*

Which gloves keep your hands the warmest? Which shoes have the best traction? Elementary science investigations using Vernier Probes will help use answer these questions and more.

#44 2:45-4:15
Room 2301

Middle School Mathematics
Intermediate: TI-73

A Smart View of TI-73 Applications

Terrie T. Poehl, Ph.D., T³ Regional Instructor, Louisiana Tech University

The new TI-73 operating system allows for an increased amount of memory for applications. This provides for individual use to work on mastery/remediation of basic mathematics facts.

#45 2:45-4:15
Room 2302 (Computer Lab)

All Grades/All Subjects
Novice: Internet/Wiki spaces

The Absolute Beginner's Guide to Wikis in the Classroom

Daniel Moix, Arkansas School for Mathematics, Sciences and the Arts

You may not even know what a wiki is, and that's OK. If you'd like to have an online environment that allows you and/or your students to collaborate, create content, and participate in evaluation of that content (all with no tech wizardry required), join us!

#46 2:45-4:15
Room 2521

Middle School Mathematics
Beginner: TI-84 Family

Using the TI-84 on the 8th Grade Benchmark Exam

Cynthia Miller, Arkansas State University

Participants will learn how to train their students to use the TI-84 on the grade 8 math benchmark test on multiple choice and constructed response items.

#47 2:45-4:15
Room 2401

Algebra I, Algebra II, Precalculus, Business Math, Finite Math
Intermediate: TI-84 Family

Life Lessons Using the Finance APP

*Dr. Ann M. Bledsoe, T³ Regional Instructor, Columbia College, MO and
Kelly Sharp, Columbia College, MO*

Wondering how you are going to pay down that mortgage in today's economy? Want to know the best investment out there? This session will explore the topic that is front and foremost in everyone's mind, the economy. The Finance APP on the TI-84 will be used to show you and your students how to get those bills paid down sooner and how to earn/save more money!

#48 2:45-4:15
Room 2402

Middle School Science, Biology, Chemistry
Beginner: TI-84, CBL 2

Take Your Temperature!

Jeff Lukens, T³ National Instructor, Roosevelt High School, SD

I'll tell you where you can stick that temperature probe! In this session we will do several activities that make use of one, two, and three temperature probes. Come out and play!

#49 2:45-4:15
Room 2505 (Computer Lab)

All Grades/All Subjects
Beginner: TI-Navigator

Navigator Beginner Series: Bell-to-Bell

Wendy Freebersyser, T³ Regional Instructor, Parkway North High School, MO

This is the fourth (and last) session in a series to help you figure out how to use that TI-Navigator that gathers dust in your school. This session will take you from bell to bell of a typical day in a Navigator classroom. Experience lesson openers, use of lists and frequency plots to help when going over homework. How to use 20+ Quick Polls a day to hear from every student in your classroom and how to manage the data. Lesson ideas using all contribute options of Activity Center and post-exam surveys using Learn Check. Finally, tips and tricks about memory management and house keeping. Computer lab; hands on.

#50 2:45-4:15
Room 2407

Middle School Math, Algebra I, Geometry
Beginner: TI-84, TI-Navigator

Equation of a Light Sabre

Will Riley, Rogers Heritage High School, AR

Lead students to find the equation of a light sabre. Students will be motivated to transition from intuitive methods for finding the equations to more formal methods.

#51 2:45-4:15
Room 2506

Middle School Math, Algebra I, Geometry
Beginner: TI-Nspire

Using pre-made documents on the TI-Nspire handheld

Ronnie Flowers, Bentonville Public Schools, AR

Participants will explore pre-made documents on the TI-Nspire that teach concepts such as laws of exponents, slopes and relationships of lines, line of best fit, angles created by parallel lines, area of triangles, properties of circles, and dilations.

#52 2:45-4:15
Room 2502

Algebra I, Algebra II, Geometry, Precalculus, Calculus
Intermediate: TI-Nspire, TI-Nspire CAS

Proving/Demonstrating a Theory with the TI-Nspire

Dr. Steve Armstrong, LeTourneau University, TX

Using the TI-Nspire we will experiment with the distance from an NXT-Lego robot to a wall as the robot moves in a circular path. We will discover the modeling function and graph both the experimental and theoretical results.

#53 2:45-4:15
Room 2503

Algebra I, Algebra II, Geometry, Precalculus
Beginner: TI-Nspire CAS

Investigating Invariants: Algebra and Geometry Integration with the TI-Nspire

*Linda K. Griffith, T³ National Instructor, University of Central Arkansas and
Jean McGehee, University of Central Arkansas*

Polygonal numbers will be investigated using the ability of the TI-Nspire to integrate geometry graphs, spreadsheets and data analysis. Linear and quadratic equations will be generated.

Workshop Sessions:

Saturday, January 31

#54 8:30-10:00
Room 2505

Middle and High School Mathematics
Any Level: TI Technology Resources

What's New at TI Now?

Robb Wilson, Texas Instruments (Arkansas' new ETC)

New SAT and ACT materials – micro websites – TI-73 SmartView software – Press to Test – TI-Nspire – Connect to Class – Arkansas Funding Guide – online courses – stickers – tutorials – and much more!

#55 8:30-10:00
Room 2207

Middle School Science and Social Studies
Beginner: GPS (Global Positioning System)

Hide and Seek

Vonda Carter and Sheril Spears, Palestine-Wheatley Middle School, AR

Educators will explore geocaching and the use of GPS units in their instruction. Participants will utilize a GPS unit to find canisters located in random locations.

#56 8:30-10:00
Room 2403

Elementary and Middle School Mathematics
Beginner: TI-73

Take a Chance!

Kevin Simms, T³ Regional Instructor, Salem City Schools, VA

Upper elementary and middle school participants will explore Probability and Statistics. Data collection, graphing features and APPS will be looked at for use with your students using the TI-73.

#57 8:30-10:00
Room 2309

Calculus
Intermediate: TI-84 Family

Finding the Rate of Change of Volume of Tootsie Roll Pops

Melanie Nichols, Arkansas School for Mathematics, Sciences and the Arts

Get sticky and do calculus! How much fun is that?? Participants will find the rate of change of the volume of Tootsie Roll pops through measurement and calculus.

#58 8:30-10:00
Room 2401

Middle School Math, Algebra I, Geometry
Novice: TI-84 Family

Using games to enhance instruction

Ronnie Flowers, Bentonville Public Schools, AR

Participants will explore instructional games using the TI-84+ family of calculators which enhance instruction in pre-algebra, Algebra I and Geometry classes.

#59 8:30-10:00
Room 2521

Geometry
Intermediate: TI-84 Family

Teaching Geometry with the TI-84

Patsy Williford, Fayetteville High School (retired), AR

Need help? Are your Geometry students using TI-84's? Let me show you some quick and easy ways to utilize them in your Geometry classroom.

#60 8:30-10:00
Room 2402

Middle School Science, Chemistry
Beginner: TI-84, CBL 2

Don't You Forget About Me!

Jeff Lukens, T³ National Instructor, Roosevelt High School, SD

Many of the data collection probes don't get the respect that they deserve. If you feel sorry for them, as I do, come and let them know that they are important to you! Fun (almost) guaranteed.

#61 8:30-10:00
Room 2407

Middle School Math, Algebra I
All Levels: TI-73, TI-84, TI-Navigator

TI MathForward: A Program for Improving Student Success in Mathematics

Ruth Casey, T³ National Instructor, TI MathForward

Come learn about the research-based components designed to function as a system to narrow the achievement gap. Special attention will be given to the role of formative assessment and the implementation of technology (TI-Navigator) to meet the instructional needs of a diverse population. This systemic model for middle school mathematics improvement was developed through collaboration between Texas Instruments and several urban districts across the country.

#62 8:30-10:00
Room 2503

Algebra I, Algebra II
Beginner/Intermediate: TI-Nspire

Mathematics the TI-Nspire Way

Terrie T. Poehl, Ph.D., T³ Regional Instructor, Louisiana Tech University

A graphing handheld with 27.8 MB of memory eliminates the need of a computer lab setting for mathematics teachers while having quality technology for instruction.

#63 8:30-10:00
Room 2504

Elementary/Middle School Math, Algebra I, Algebra II
Beginner: TI-Nspire CAS

Using CAS to Prepare Young Children for Algebra

David A. Young, T³ National Instructor, Fayetteville Public Schools, AR

Explore how Computer Algebra Systems can be used to lay the foundations of algebra so that all students can be successful as they study mathematics.

#64 8:30-10:00
Room 2506

Algebra I, Geometry, Algebra II
Beginner: TI-Nspire

How does the “Power of Visualization” reveal itself with the TI-Nspire

Tony Timms, T³ National Instructor, Southeast Arkansas Education Cooperative

Aimee L. Evans, Arch Ford Education Service Cooperative

When time and place don't allow for data gathering, no worries. Come see how to collect, store and graph data with ease.

#65 10:15-11:45
Room 2301

Middle School Mathematics
Beginner: TI-73

The Power of the TI-73 for Middle Grades

Dr. Ann M Bledsoe, T³ Regional Instructor, Columbia College, MO

This session will explore those capabilities of the TI-73 that differ from the TI-83/84 to demonstrate its power for the teaching and learning of mathematics at the middle grades. These capabilities include simplifying fractions manually, circle graphs, pictographs, the Number Line application and more.

#66 10:15-11:45
Room 2403

Upper Elementary, Middle School Mathematics
Beginner: TI-73, TI-84

Algebra is not just for Mermaids

Kevin Simms, T³ Regional Instructor, Salem City Schools, VA

Participants will explore activities that help students understand basic concepts in Algebra. TI-73 and TI-84 features will be used to make students critically analyze their work to produce reasonable answers to problems.

#67 10:15-11:45
Room 2505

Middle and High School Mathematics and Science
Any Level: TI Technology Internet Resources

The Scoop on TI Content

Ellen Johnston, Texas Instruments

TIMath.com, TIMiddlegrades.com, TIPhysics.com—Great activities are available free, sent out weekly and are also archived. Come explore these micro sites and more. Find out about new activity projects that are coming out soon. This session is appropriate for all levels of TI graphing calculator users.

#68 10:15-11:45
Room 2302 (Computer Lab)

Middle School Math, Algebra I, Algebra II, Geometry
Beginner: Cognitive Tutor ® (internet)

Cognitive Tutor (CT): Reaching/Teaching Today's Digital Learners

Dr. Roger Isaac Blanco, Carnegie Learning, Inc.

The aim of this session is to provide a forum for participants to engage in collaborative learning discussions and relevant/meaningful curricula that have been proven successful via the effective use of the CT (Cognitive Tutor ® Math Curricula)

#69 10:15-11:45
Room 2309

Algebra II, Precalculus, Calculus
Beginner: TI-84 Family

TI-84+ in High School Math for a Successful AP Calculus

Fan Disher, T³ Regional Instructor, Mandeville High School, LA

Learn the concepts and calculator skills that students need to master to prepare them for AP Calculus.

#70 10:15-11:45
Room 2401

Algebra I, Algebra II, Precalculus, Physics
Intermediate: TI-84 Family, TI-Smartview

Name That Tune: Matching musical tones through waveform analysis

Wallece Brewer, T³ National Instructor, NE Arkansas Rural Institute for Mathematics and Science
Karen Busby, NE Arkansas Delta Institute for Mathematics and Science

Participants will solve a crime by identifying the musical notes that make up the combination to a safe; detecting the waveform of a musical note using a microphone probe and calculating the frequency of a musical note from the period of its waveform.

#71 10:15-11:45
Room 2402

Middle School Science, Biology, Chemistry
Beginner: TI-84 Family

APP-ly the Graphing Calculator in Your Science Class

Jeff Lukens, T³ National Instructor, Roosevelt High School, SD

Hidden within the guts of the TI-84 are some very cool things called APPS. Some of them are great for use in your science classroom. Come and learn about them in this session—ALL HANDS-ON!

#72 10:15-11:45
Room 2407

Algebra I

Beginner: TI-84, TI-Navigator, TI-Smartview

How High Can You Jump?

Corey Bobby, T³ National Instructor, Benton Public Schools, AR

Looking for a fun way to tire out your students? This session will explore an activity using vertical jumping to find an equation of best fit.

#73 10:15-11:45
Room 2502

Algebra II, Transition to College Mathematics

Beginner: TI-Nspire, TI-Nspire CAS

Using TI-Nspire to explore rational and exponential functions

Justin Warner, Benton High School, AR

We will use TI-Nspire to explore the constant of proportionality and how it relates to real-world situations. We will also model exponential data to investigate population growth.

#74 10:15-11:45
Room 2503

Geometry

Intermediate: TI-Nspire

A Comparison between Cabri Jr. and Nspire Geometry

Terrie T. Poehl, Ph.D., T³ Regional Instructor, Louisiana Tech University

Use of the Cabri Jr. APP on the TI-84+ SE provides a good venue for students to learn about rigid motions (reflections, rotations, translations) as compared to a geometry page in an Nspire file. Both are excellent at the high school level.

#75 10:15-11:45
Room 2506

Algebra I, Algebra II, Statistics

Beginner: TI-Nspire, TI-Nspire CAS

Nspire your students to discover mathematics

Wendy Freebersyser, T³ Regional Instructor, Parkway North High School, MO

What's all the hype? You will leave this session with a comfortable knowledge of the basic workings of the document model handheld. Get to know the TI-Nspire with time to play, explore dynamic algebra, build interactive geometry, and discover statistics really is for everyone. In addition, we will use Connect-to-Class to share files and explore the new features of the teachers' edition of the software-highlighting the questions page!