

2022 SCCTM Fall Conference



46th Annual Business Meeting

November 17 – 18, 2022

Greenville, South Carolina



SCCTM 2022

Healthy Math: Teaching with Strength, Cardio,
and Flexibility using the Mathematical Practices



South Carolina Council of Teachers of Mathematics



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Real Engagement
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Closing math achievement gaps at an accelerated rate will be even more critical with the new 2023 South Carolina Accountability Measures. Having a program with the right instructional design to optimize sustainable year-over-year growth is a must for classrooms across the state.

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“Students are learning the concepts and they’re learning how to think about math and understand math. We’re seeing richer discussions in the classroom where students actually mention that they learned that through their DreamBoxwork.”

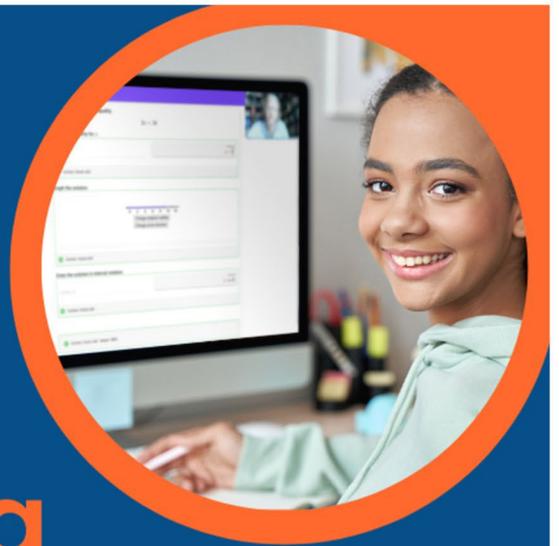
Sharon Huff, Assistant Superintendent
Pickens County School District



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and Friday, all day in Room 101A.**



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Beth Smith

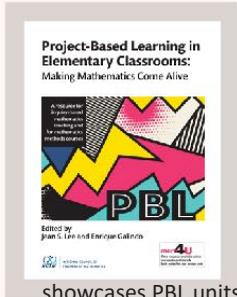
Education Technology Consultant
904.607.9030 bethsmith@ti.com

Texas Instruments

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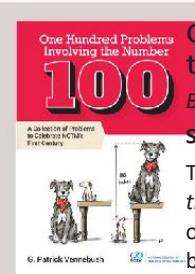
GREAT TITLES FROM NCTM PUBLICATIONS



Project-Based Learning in Elementary Classrooms: Making Mathematics Come Alive

Edited by Jean S. Lee and Enrique Galindo
Stock #: 16020 List Price: \$39.95

This book presents an overview of the essentials of project-based learning (PBL) and the evidence that supports the use of PBL. It showcases PBL units addressing the Common Core State Standards for Mathematics for the purpose of demonstrating how PBL works and the learning that results.



One Hundred Problems Involving the Number 100

By G. Patrick Vennebush
Stock #: 16002 List price: \$28.50

The problems in *One Hundred Problems Involving the Number 100* celebrate the “Goldilocks” charm of 100—a number not too small, not too large, but just right to challenge students without intimidating them. A range of mathematical topics from patterns, conversions, and sums and series to number theory, functions, probability and statistics, and geometry are covered.

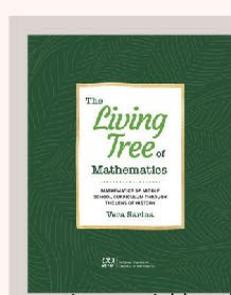


5 Practices for Orchestrating Productive Mathematics Discussions, 2nd ed.

By Margaret (Peg) Smith and Mary Kay Stein
Stock #: 15397 List price: \$30.95

Five Practices provides a model for facilitating discussions in mathematics classrooms based on the thinking of students. This new edition

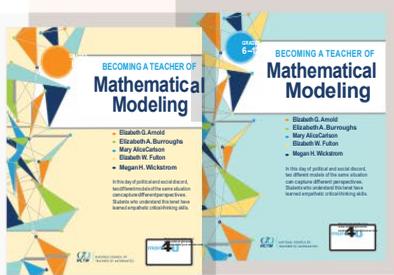
is situated within current educational contexts (e.g., *CCSSM* and *Principles to Actions*) and offers details on how to plan for and engage students in K–12 classrooms in discussions that advance the learning of all students in the classroom.



The Living Tree of Mathematics: By Vera Sarina

Stock #: 16063 List Price: \$39.95

Using the history of mathematics concepts of various cultures around the world, *The Living Tree of Mathematics* explores the key concepts of middle school mathematics such as fractions, negative numbers, arithmetical operations, variables, the coordinate plane, and measurement formulas. The book also highlights the rarely examined notions of the tree of mathematics and language of mathematics.



COMING SOON! Becoming a Teacher of Mathematical Modeling

K–GRADE 5, GRADES 6–12

Learn to understand mathematical modeling and its place in classrooms. This series focuses on what teachers and students do

while engaged in modeling in school classrooms and how their work reflects four big ideas about mathematical modeling that are based in the discipline of mathematics.

Taking Action Series

List price: \$37.95

Are you ready to take your teaching to the next level? The Taking Action series offers a coherent set of professional learning experiences designed to foster teachers’ understanding of the effective mathematics teaching practices and their ability to apply those practices in their own classrooms.

**K–Grade 5
 Stock #: 15187**

**Grades 6–8
 Stock #: 15200**

**Grades 9–12
 Stock #: 15201**



Catalyzing Change Series

List price: \$39.50

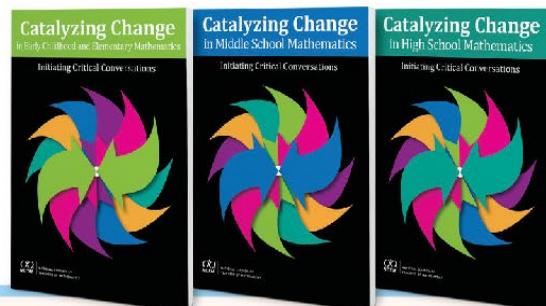
The Catalyzing Change series is a collection of three books intended to initiate the critical conversations on policies, practices, and issues that affect mathematics education. The series identifies the critical conversations necessary to address the serious challenges educators face, ensuring that each and every child has access to a high-quality mathematics education.

Early Childhood and Elementary Mathematics

Stock #: 15928

Middle School Mathematics Stock #: 15929

High School Mathematics Stock #: 15637



Visit nctm.org/store and use code **SCCTM22** to receive a **20% discount** and free shipping!
CODE IS VALID 11/17/2022 – 11/25/2022

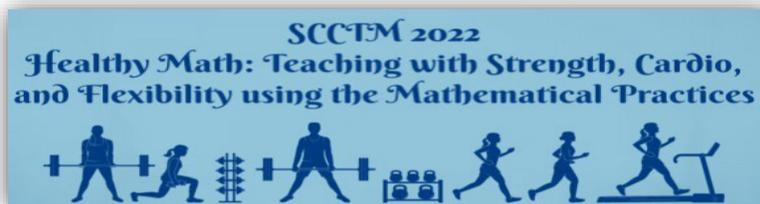
2022 SCCTM Fall Conference

46^h Annual SCCTM Business Meeting

November 17-18, 2022 Greenville, South Carolina



Nationally Acclaimed Keynotes, Sessions, Workshops, Mini-Sessions, and Exhibits, comprise the in-person Conference activities held at the Greenville Convention Center in Greenville, South Carolina



Registration

Registration must be completed online for all attendees prior to checking in via QR code at the conference. Payment may be made online by card payment, check, or emailed via purchase order. Late checks may be dropped off at the information booth.

Information Booth

Thursday, November 17 7:30 am – 4:00 pm
 Friday, November 18 7:30 am – 2:00 pm

Exhibits

Mathematics instructional materials, software, publications, and professional services will be on display in the Conference Hall of the Convention Center. Commercial exhibits will be open during the following hours:

Thursday, November 17 8:00 – 4:00
 Friday, November 18 8:00 – 2:00

Concessions

Concessions will be available each day in the Convention Center. All concession must be paid via debit card, credit card, Google pay, or Apple pay. The Greenville Convention Center no longer takes cash transactions. **NO FOOD MAY BE BROUGHT IN FROM OUTSIDE THE CONFERENCE CENTER.**

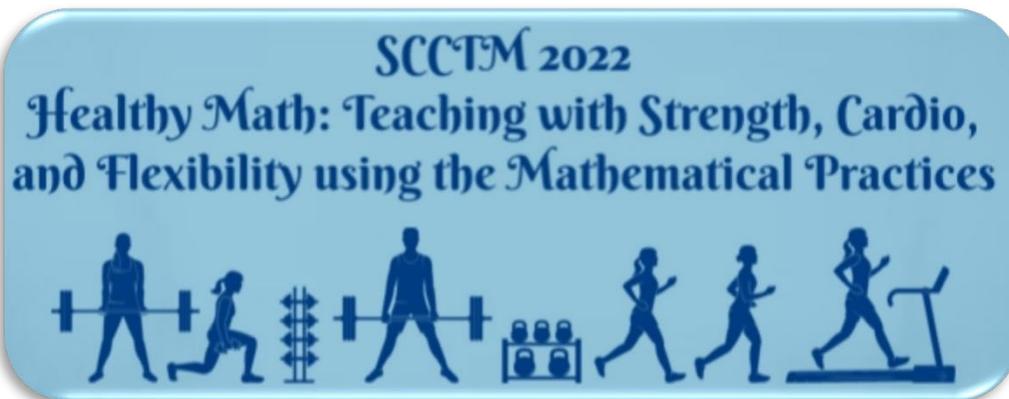
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Precautionary Practices for the 2022 SCCTM Conference



- Online pre-registration will be required for the conference to avoid crowds at the information (formerly registration) desk.
- No on-site registration. All attendees must register online.
- Conference check-in will be via QR code.
- Payment may be made electronically by emailing purchase orders or by paying with a card online.
- Checks should be received by mail at least 14 days prior to the event unless a purchase order has been received as proof of authorization to attend the event.
- All attendees must have made payment or provide promise of payment (purchase order by email) prior to attending the conference in order to avoid lines at the information desk. (Formerly the registration desk.)



Dear SCCTM Annual Conference Attendees,

Welcome to Greenville and the 2022 SCCTM Annual Conference! We are thrilled to present a full in-person conference this year. I hope each of you discovers new enthusiasm and excitement for mathematics education and obtains refreshing ideas. We offer an excellent program of keynote speakers, session leaders, and true proponents of Healthy Math! As always, you will find a wide variety of sessions, workshops, and networking opportunities that offer ideas, resources, tools, and materials to use with your students and share with colleagues.

We are happy to showcase four extraordinary keynote speakers. The biographies of each keynote speaker can be found on our website at scctm.org and in the conference program book.

Thursday, 10:15 AM – 11:45 AM, Ballroom 202C: Andrew Tyminski, Clemson University

Thursday, 1:45 – 3:15 PM Ballroom 202C: Zachary Champagne,
hand2mind

Friday, 10:15 AM – 11:45 AM, AM, Ballroom 202C: Kevin Dykema,
President of the National Council of Teachers of Mathematics

Friday, 1:45 PM – 3:15 PM Ballroom 202C: Bernard Frost, Spartanburg School District Seven

Each keynote presentation will focus on aspects we as educators and leaders can use to promote healthy math practices. Our speakers are sure to inspire and ignite excitement for what we do and how we do it. On behalf of the SCCTM Executive Board, I welcome each of you to the 2022 Annual Conference and extend a sincere thank you to each of our keynote speakers, session and workshop presenters, and exhibitors!

Sincerely,

Alisa Hobgood

Alisa Hobgood, SCCTM President



Registration

On-site registration check in will be held via QR check-in in the Lobby of the Convention Center and at the doors of each early morning Thursday session. Please check-in and pick up conference materials with your registration QR code once.

Each attendee must be pre-registered and have made payment by card or by emailed purchase order prior to checking in. Name badges with registration QR codes to be printed by the attendee were emailed when registration was completed.

Your name badge must be displayed to gain entry to all sessions and exhibits.



Hotel Information

The Conference hotels are the Courtyard by Marriot Hayward Mall, the Comfort Inn Hayward Mall, the Comfort Suites Greenville Airport, Hyatt Place Hayward, La Quinta Inns and Suites Hayward, and the Sleep Inn Greenville Convention Center.

Parking

Parking is in the convention center parking lot.

On-Site Food Concessions

Concessions will be available each day in the Convention Center. All concession must be paid via debit card, credit card, Google pay, or Apple pay. The Greenville Convention Center no longer takes cash transactions. **NO FOOD MAY BE BROUGHT IN FROM OUTSIDE THE CONFERENCE CENTER.**

Program Updates

Be sure to check the Conference Program book. If you planned your schedule based on the Preliminary Program, please compare it to the current Program Book to make sure the sessions you have chosen have not changed or been cancelled at the last minute. **See page 20 of this program book for updates.**



Special Needs

Physically challenged registrants in need of services should contact Alisa Higgins, Site Chair or Ryan Higgins, Program Chair.

Directory of Important Locations

Commercial Exhibits *Conference Hall*
Conference Headquarters *Room 100A*
Message Board *Conference Hall*
NCTM Materials *Conference Hall*
Registration *On-Line*
Speaker Check-in *Information Booth*
Student Page Check-in *Information Booth*
Volunteer Check-in *Information Booth*



Other Meetings

SCLME *Wednesday by Invitation*
Room 102 B/C

Commercial Exhibits

Textbooks, computers, software, and other instructional materials will be displayed in the Conference Hall of the Greenville Convention Center. Hours are Thursday from 8:00 am to 4:00 pm and Friday from 8:00 am to 2:00 pm.

NCTM/SCCTM Materials

Review and purchase educational materials in the sales area located at the front of the Conference Hall. Drop by this area and browse through the excellent selection of available materials to assist you in planning curriculum, instruction and assessment.

Student Pages

College students will serve as pages. They have volunteered their time to assist speakers and conference attendees. They have been asked to help ensure that room capacities for all presentations are observed in accordance with fire codes.

SCCTM Position Statement

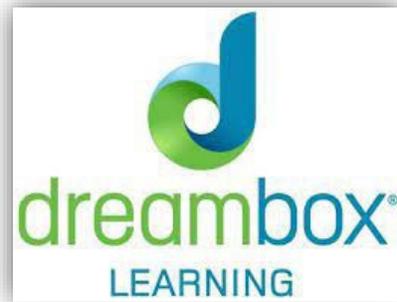
SCCTM prohibits the use of copyrighted materials in sessions unless prior permission has been obtained. Advertisements contained in this booklet or references to products by speakers are not to be considered endorsements by the state organization.

Safety Regulations

The Greenville Convention Center adheres to all fire and emergency evacuation codes. SCCTM asks for your cooperation with the enforcement of these codes

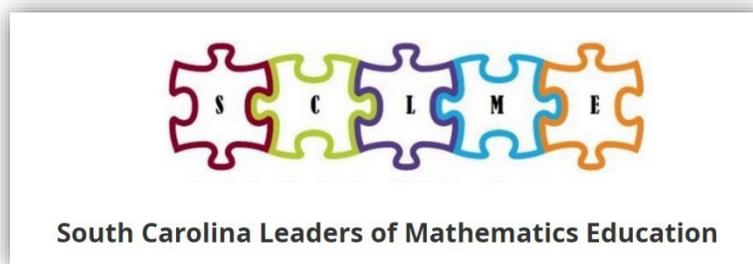


Silver Sponsor



Many thanks go out to **dreambox Learning** for their donation of popcorn for us all to enjoy.

Bronze Sponsor



Many thanks go out to **SCLME** for donating a session projector to SCCTM for 2022 and future conferences.



SCCTM is greatly appreciative of **Derivita's** Generous Support!



Derivita's sponsored speakers and sessions are in Room 101A, all day on Thursday and Friday, supporting the math teachers of the Palmetto State in their quest for Healthy Math.





**SCCTM is greatly appreciative of
Texas Instruments' Generous
Support!**



**TEXAS
INSTRUMENTS**

**You will find Texas Instruments'
sessions full of Healthy Math in Room
101B, throughout the day on Thursday
and Friday, supporting the math
teachers of the Palmetto State.**





**Thank you [hand2mind](#) for your
Generous Support!**



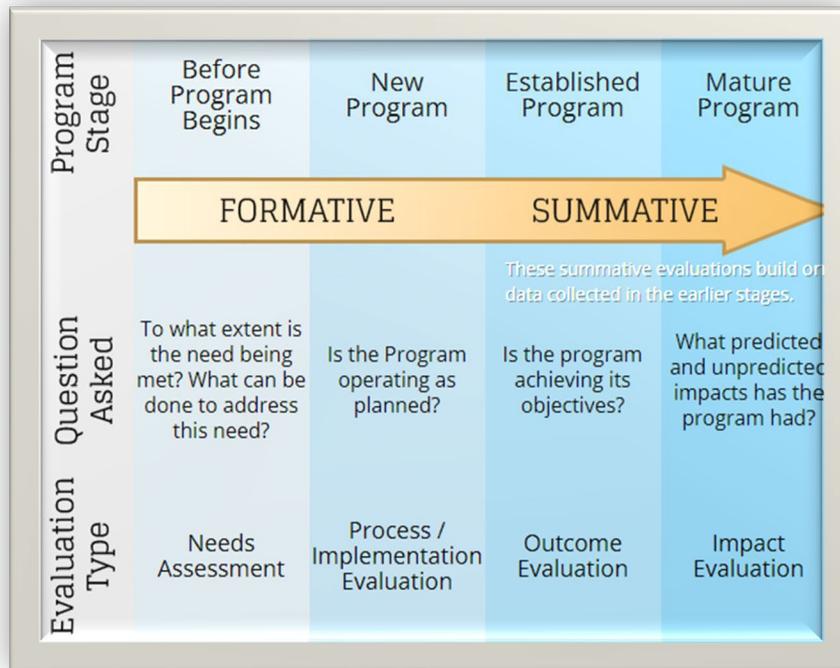
**Many thanks go out to [hand2mind](#) for
their generous donation of the 2022
conference bags and the sponsorship
of a keynote speaker.**



2022 SCCTM Conference Evaluation

Evaluation is a process that critically examines a program. It involves collecting and analyzing information about a program's activities, characteristics, and outcomes. Its purpose is to make judgments about a program, to improve its effectiveness, and/or to inform programming decisions (Patton, 1987).

SCCTM is committed to providing effective and relevant professional development opportunities for the mathematics teachers of South Carolina.



Our conference planning committees use Formative and Summative Assessments, just as you do in your classroom.

Please assist us by sharing your professional opinions, providing us with summative assessment by filling in the Google Form linked here:

<https://forms.gle/uPS5wykN2YbhiLXW9>



**The 46th Annual SCCTM Business
Meeting and Awards Ceremony
Thursday, November 17
4:15 pm in 202C**



At the end of the meeting, drawings will be held for
FABULOUS door prizes for SCCTM Members!
You must be present to win!

Presentations using Technology

Texas Instruments Room - Sponsored by TI
Derivita Room - Sponsored by Derivita
Promethean Board Room - with Promethean



S²TEM Centers SC



Thursday & Friday – Room 202A

S²TEM Centers SC Education Specialists support learners and leaders by creating custom, client driven informational sessions that focus on specific learning outcomes and maximize participant interaction.



EdVenture-to-Go! Bringing EdVenture to you.

Thursday & Friday – Room 202B

You are in for a special treat and great professional development opportunities. Come away with new activities for your classroom. EdVenture is known for their support of the PK – 5 grade levels but many include general workshops through all levels.

Sponsored by EdVenture Children's Museum

Greenville Convention Center

Parking & Facility Access



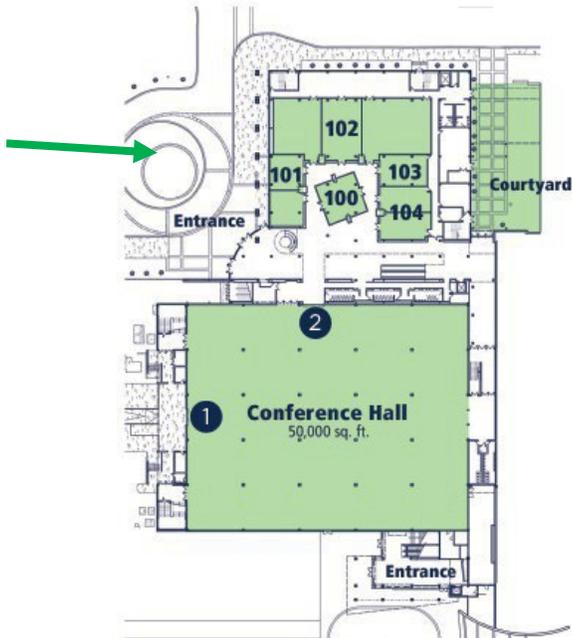
1 Exposition Drive

Greenville, South Carolina 29607

The **entrance** to the SCCTM Conference is most easily accessed from the parking lot on Eisenhower Drive. **Parking** is available both adjacent to the building and in the Eisenhower Drive parking lot. Volunteers will be waiting to check attendees in via QR code inside the **entrance** to the Conference Center.

Greenville Convention Center

Lower-Level Rooms



Room 100B – Promethean Escape Room

Room 101A – Derivita Sessions

Room 101B – Texas Instruments Sessions

Room 102A – Miscellaneous Sessions

Room 102B - Miscellaneous Sessions

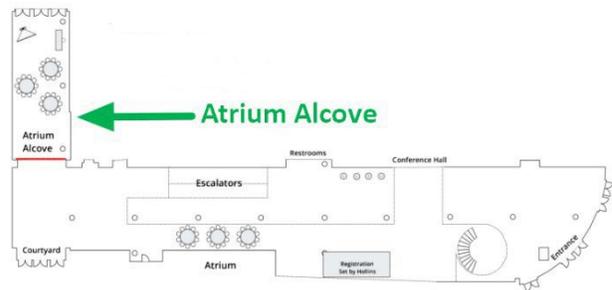
Room 102C - Miscellaneous Sessions

Room 103 - Miscellaneous Sessions

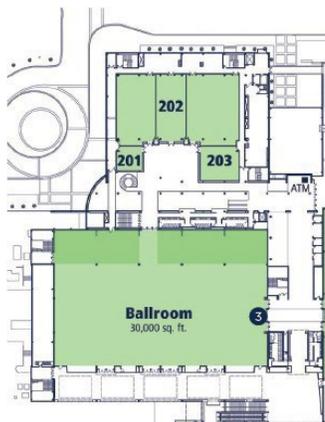
Room 104A - Miscellaneous Sessions

Room 104B - Miscellaneous Sessions

Atrium Alcove - Miscellaneous Sessions



Upper-Level Rooms



Room 201 - Miscellaneous Sessions

202A – S2TEM Sessions

202B – EdVenture Session

202C – Keynotes and Various Sessions

203 - Miscellaneous Sessions

Session Change Updates



The South Carolina Council of Teachers of Mathematics apologizes for any problems or inconveniences that session cancellations or changes may have caused any of our attendees. We do our best to always deliver sessions as scheduled, but sometimes things don't go as planned. Unfortunately, life happens and speakers who sincerely wanted to be here are unable to attend. This year some speaker cancellations have occurred due to a death in the family, illness of a family member or speaker. Every year, there are cancellations beyond anyone's control.

Please cross check the sessions that you planned ahead to attend based on the Mini Schedule Program-at-a- Glance as compared to this list of changed sessions listed. Be sure to have a back-up plan in mind to take the place of any of your choices that have to be changed. Remember that you may visit the exhibit hall at any time during the conference. We do have some backup sessions planned in case of emergencies.

Please check back on this page again, in case there are any other last-minute changes. There could be emergencies that come up and a speaker may have to cancel even on the day of the event.

Canceled, Changed, or Updated Sessions

| Thirty Minutes Sessions | Sixty Minutes Sessions | Ninety Minutes Sessions |
|--|---|---|
| Thursday T08 Algebra Infused Projects from 3:30 - 4:00 in 202C for 9 th - 12 th was canceled by the original speaker and changed to: Mini Workshop: 10 Days to Multiplication Mastery 3:30 - 4:00 in 202C for 3 rd - 5 th | Thursday S32 Math Nation & Kellogg's: Bringing High School Math to Life is now S58 on Friday from 8:30 - 9:30 in 201 for 9 th - 12 th (Reverse of original scheduling as per speaker request.) | Friday N35, Room 202A from 10:15 - 11:45 Taking a Chance: Probability and Statistics in the Middle Grades 6 th - 8 th (Grade level update as per speaker request.) |
| Friday T12 Algebra Infused Projects from 10:15 - 10:45 in 203 for 9 th - 12 th was cancelled by the original speaker and changed to Mini Workshop: Hands-on and Self-Correcting Math Centers from 10:15 - 10:45 in 203 for 2 nd - 5 th | Friday S58 Math Nation & Kellogg's: Bringing Middle School Math to Life from 12:15 - 1:15 in 203 for 6 th - 8 th is now on Thursday, S32. (Reverse of original scheduling as per speaker request.) | Friday N42 Expressions that Play Together!: Solving Equations on the Double Number Line from 12:00- 1:30 in 202C for 6 th - 12 th was canceled by the original speaker and is changed to N42 What is Dreambox Learning? for K - 8 th . |
| | Thursday S27 "Healthy" Project Ideas and How to Finance Them from 12:15 - 1:15 in 103 for 6 th - 12 th (Grade level update as per speaker request.) | |
| | | |
| | | |



Mini Schedule Program-at-a Glance

Thursday Sessions

T sessions are 30 Minutes

S sessions are 60 minutes

N sessions are 90 minutes.

T01 Personalize Learning for ALL Students Through SuccessMaker Math from 9:40 - 10:10 in 201 for PreK - 2nd, 3rd - 5th, 6th - 8th

T05 Presidential Award for Excellence in Math and Science Teaching (PAEMST) Alumni Meet and Greet from 3:30 - 4:00 in 102A

S01 Promethean Escape Room Experience from 8:30 - 9:30 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S05 Should We Use Manipulatives in Middle School? Absolutely! from 8:30 - 9:30 in 104B for 6th - 8th

S09 SCCTM First Timers from 8:30 - 9:30 in Atrium Alcove for General

S13 Flexibility in Math Workshop! from 9:45 - 10:45 in 104A for PreK - 2nd, 3rd - 5th

S17 Promethean Escape Room Experience from 11:00-12:00 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S21 Flexibility with Fraction Understanding from 11:00-12:00 in 104B for 3rd - 5th

S25 Use TI-84 or TI-Nspire Graphing Technology Creatively for Greater Success on ACT and SAT from 11:00-12:00 in Atrium Alcove for 6th - 8th, 9th - 12th

S29 Hands-on and Self-Correcting Math Centers from 12:15 - 1:15 in 104B for PreK - 2nd - 5th

S33 Break the 'Forgetting Cycle' Part 2: Cumulative Testing with Get More Math from 12:15 - 1:15 in Atrium Alcove for 3rd -12th

S37 Mathematics in Movies and Television Part 2 from 1:30 - 2:30 in 104A for 9th - 12th, College

T02 Strengthening Mathematical Thinking through Children's Literature and STEAM from 9:40 - 10:10 in 203 for PreK - 2nd, 3rd - 5th

T06 Just the Facts: Using Reflex to level up student success in math! from 3:30 - 4:00 in 102C for PreK - 2nd, 3rd - 5th, 6th - 8th

S02 Break the 'Forgetting Cycle' Part 1: Spiral Review with Get More Math from 8:30 - 9:30 in 102B for 3rd - 5th, 6th - 8th, 9th - 12th

S06 Making Sense of Number Sense (K-5) from 8:30 - 9:30 in 201 for PreK - 2nd, 3rd - 5th

S10 Promethean Escape Room Experience from 9:45 - 10:45 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S14 Not just for remote learning. Using Desmos Activity builder in face-to-face classes from 9:45 - 10:45 in 104B for PreK - College

S18 Strengthening and Toning K-12 Math Standards with Statewide Competitions from 11:00-12:00 in 102B for K - 12th **Updated - Grade Level**

S22 Classify Polygons using the Quadrilateral Umbrellarella from 11:00-12:00 in 201 for 3rd - 5th

S26 Math Rigor and MTSS- They are not opposites! from 12:15 - 1:15 in 102B for 6th - 8th

S30 Strengthen Your Desmos Muscles with Activity Builder & Polypad from 12:15 - 1:15 in 201 for 9th - 12th

S34 Promethean Escape Room Experience from 1:30 - 2:30 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S38 PBS Learning Media Math Resources from 1:30 - 2:30 in 104B for PreK - 2nd - 12th

T03 Combining problem-solving steps and strategies for the conceptualization of mathematics concepts from 10:15 - 10:45 in 201 for PreK - 2nd, 3rd - 5th, 6th - 8th

T07 MATHiaFlex: Helping Teachers Meet the Needs of All Students from 3:30 - 4:00 in 202A for 6th - 8th, 9th - 12th

S03 Using Flexibility to Empower Students with Special Needs from 8:30 - 9:30 in 103 for PreK - 2nd, 3rd - 5th

S07 Math, Music and Movement from 8:30 - 9:30 in 202B for K - 12th

S11 Oh My!! Cardio in Math from 9:45 - 10:45 in 102B for 6th - 9th - 12th

S15 EdVenture's Math Games from 9:45 - 10:45 in 202B for K - 5th

S19 Building Math Strength by Connecting Math Practices, Children's Literature, and Flip Grid from 11:00-12:00 in 103 for PreK - 5th

S23 Supporting Math Skills through Physical Activity from 11:00-12:00 in 202B for PreK - 3rd

S27 "Healthy" Project Ideas and How to Finance Them from 12:15 - 1:15 in 103 for 6th - 12th **Updated - Grade Level**

S31 Building Healthy Relationships: Ideal Customer Service from 12:15 - 1:15 in 202B for PreK - 12th

S35 OMG! Graphic Organizers in Elementary Math Classroom from 1:30 - 2:30 in 102B for 2nd - 6th

S39 P.L.C - The THREE Letters Behind Student and Teacher Equity and Success from 1:30 - 2:30 in 201 for 3rd - 12th

T04 A Change in Perspective: How using a Vertical Number can Lead to Rounding Success from 10:15 - 10:45 in 203 for PreK - 2nd, 3rd - 5th

T08 Mini Workshop: 10 Days to Multiplication Mastery 3:30 - 4:00 in 202C for 3rd - 5th **Updated - Different Session**

S04 Working Towards Getting All Students On Grade Level by Accelerating Learning from 8:30 - 9:30 in 104A for 3rd - 5th, 6th - 8th

S08 Using Math Micro-credentials for Personalized Professional Learning from 8:30 - 9:30 in 203 for PreK - 2nd - 12th

S12 Creating Access and Equity for all Students from 9:45 - 10:45 in 103 for PreK - 2nd, 3rd - 5th

S16 PUMP UP your Math Battles - Secondary Math from 9:45 - 10:45 in Atrium Alcove for 6th - 8th, 9th - 12th

S20 Co-Teaching Mathematics - Middle and High School Teacher Residents in the Classroom from 11:00-12:00 in 104A for 6th -12th

S24 Number Lines 101: the fundamentals (K-3) from 11:00-12:00 in 203 for PreK - 2nd, 3rd - 5th

S28 Journey to Building a Thinking Classroom from 12:15 - 1:15 in 104A for 9th - 12th

S32 Math Nation & Kellogg's: Bringing Middle School Math to Life from 12:15 - 1:15 in 203 for 6th - 8th **Updated - Day and Time**

S36 Striving to get students to think from 1:30 - 2:30 in 103 for 6th - 8th

S40 Let's Get Warmed Up! from 1:30 - 2:30 in 202B for PreK - 2nd, 3rd - 5th



Mini Schedule Program-at-a Glance

Thursday Sessions

T sessions are 30 Minutes

S sessions are 60 minutes

N sessions are 90 minutes.

S41 **There's Strength in Numbers** from 1:30 - 2:30 in 203 for PreK - 2nd, 3rd - 5th

S42 **Understanding Angle Relationships** from 1:30 - 2:30 in Atrium Alcove for 6th - 8th

S43 **Promethean Escape Room Experience** from 2:45-3:45 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S44 **The Buzz on Pollination** from 2:45-3:45 in 102B for 6th - 8th

S45 **Cross-Training - Creating Healthy Digital Collaborative Online Learning Math Environments** from 2:45-3:45 in 103 for 3rd - 5th, 6th - 8th

S46 **Teaching Problem Solving to All Students** from 2:45-3:45 in 104A for PreK - 2nd, 3rd - 5th

S47 **Teaching About Our World with Mathematical Models and Manipulatives** from 2:45-3:45 in 104B for 6th - 8th

S48 **Math YOGA: Yearlong Outstanding Gains in Achievement** from 2:45-3:45 in 201 for 3rd - 5th, 6th - 8th, 9th - 12th

S49 **Hands-On Learning: Meaningful Mathematics for All** from 2:45-3:45 in 202B for PreK - 2nd

S50 **Math and cybersecurity go hand in hand** from 2:45-3:45 in 203 for 6th - 8th

S51 **Flex your Fraction Muscles: Tidbits for Your Toolkit** from 2:45-3:45 in Atrium Alcove for 3rd - 5th

N01 **Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA!** from 8:30 - 10:00 in 101A for 6th - 12th

N02 **Integrating TI-84 Technology in Your Classroom** from 8:30 - 10:00 in 101B for 6th - 12th

N03 **Power Play - Primary Place Value Games** from 8:30 - 10:00 in 102A for PreK - 2nd

N04 **Math & Science Collide: Catapult build, video shoot, & gather data** from 8:30 - 10:00 in 102C for 9th - 12th

N05 **Math Mindset Matters** from 8:30 - 10:00 in 202A for General

N06 **Tips and Tools to Facilitate Meaningful Math Discourse in Your Classroom** from 8:30 - 10:00 in 202C for 3rd - 5th, 6th - 8th

N07 **Talk Mathy to Me: Using Mathematical Discourse to Engage Students** from 10:15 - 11:45 in 101A for 6th - 12th

N08 **Let's put Math in Motion with the TI-Innovator Rover™** from 10:15 - 11:45 in 101B for 6th - 12th

N09 **Help! I need a tool to bring the mathematical practices to life!** from 10:15 - 11:45 in 102A for PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College

N10 **Polynomial DaMath** from 10:15 - 11:45 in 102C for 6th - 8th, 9th - 12th, College

N11 **Tech-Based Math** from 10:15 - 11:45 in 202A for 6th - 8th

N12 **"The Salmon Joke: A mindset for student sense making"** from 10:15 - 11:45 in 202C for General

N13 **Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA!** from 12:00 - 1:30 in 101A for 6th - 12th

N14 **Integrating TI-Nspire™ Technology in Your Classroom** from 12:00-1:30 in 101B for 6th - 12th

N15 **Oh the Math That They'll Know! Pre K - K Math Games** from 12:00 - 1:30 in 102A for PreK - 2nd

N16 **On Your Feet, Out of Your Seat Math!** from 12:00 - 1:30 in 102C for 6th - 8th, 9th - 12th

N17 **Mining Mathematical Thinking** from 12:00 - 1:30 in 202A for K-2nd

N18 **What's Your Angle on Angles? (4-HS)** from 12:00 - 1:30 in 202C for 3rd - 5th, 6th - 8th, 9th - 12th

N19 **Enhancing Learning Through Thinking Tasks** from 1:45-3:15 in 101A for

N20 **Using TI-84 Technology in Algebra to Build Conceptual Understanding** from 1:45-3:15 in 101B for 6th - 12th

N21 **Responding to Student Data - Making Real Time Decisions Using Small Group Instruction** from 1:45 - 3:15 in 102A for 6th - 8th, 9th - 12th

N22 **Strengthening Geometry through Hands-On Investigations and Activities** from 1:45-3:15 in 102C for 9th - 12th

N23 **Data Science and Algebra** from 1:45-3:15 in 202A for 9th - 12th

N24 **The Teaching and Learning of Mathematics is About Ideas** from 1:45 - 3:15 in 202C for General

BusMtg **SCCTM Meeting and Awards** from 4:15 - 6:00 in 202C

Door Prizes!





Mini Schedule Program-at-a Glance

Friday Sessions

T sessions are 30 Minutes

S sessions are 60 minutes

N sessions are 90 minutes.

T09 Is the "Slide, Divide, Bottoms Up" Method for Factoring Quadratic Functions Best for a Thinking Math Classroom? from 9:40 - 10:10 in 201 for 9th - 12th
S53 Promethean Escape Room Experience from 8:30 - 9:30 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S57 Algebra is Accessible with AlgebraBlocs! from 8:30 - 9:30 in 104B for 6th - 8th

S61 ...Transformation Graphing, 250+ Video Modular Course Using TI-84, Nspire from 8:30 - 9:30 in Atrium Alcove for 6th - College

S65 Strengthen Student Understanding Through Productive Struggle from 9:45 - 10:45 in 104A for PreK - 2nd, 3rd - 5th

S69 Promethean Escape Room Experience from 11:00-12:00 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S73 Experience the Power of Math Centers to Strengthen Student Understanding from 11:00-12:00 in 104B for PreK - 2nd, 3rd - 5th

S77 Putting the FUN back into fractions with virtual fraction flowers and more! from 11:00-12:00 in Atrium Alcove for 3rd - 5th

S81 10 Days to Multiplication Mastery from 12:15 - 1:15 in 104B for 3rd - 5th

S85 BAZINGA!!!! from 12:15 - 1:15 in Atrium Alcove for 6th - 8th

S89 Have Your Students Discover, Interact and Play with the Dynamic Geometry App on TI-Nspire from 1:30 - 2:30 in 104B for 6th - 8th, 9th - 12th, College

S93 Building Thinking Classrooms: The Extended Warm Up from 1:30 - 2:30 in Atrium Alcove for PreK - 2nd, 3rd - 5th

N28 Come for you MIT Workout and Let's Get Vertical from 8:30 - 10:00 in 102C for 9th - 12th

N32 If You Have Questions, We Have Answers! from 10:15 - 11:45 in 101B for 6th - 12th

T10 Learning Centers Energize the Math Classroom from 9:40 - 10:10 in 203 for 3rd - 5th, 6th - 8th

S54 Algebra for Everyone: Conceptual Strength Through "Discovery Light" from 8:30 - 9:30 in 102B for 3rd - 5th, 6th - 8th, 9th - 12th

S58 Math Nation & Kellogg's: Bringing High School Math to Life from 8:30 - 9:30 in 201 for 9th - 12th
Updated - Day and Time

S62 Promethean Escape Room Experience from 9:45 - 10:45 in 100B for General (Limited Capacity: Participants must sign up ahead.)

S66 I Got To Do This With My Kids! 25 Clever Activities on the TI-84, Conceptual Understanding from 9:45 - 10:45 in 104B for 9th - 12th, College

S70 The Math and Literacy Connection from 11:00-12:00 in 102B for PreK - 2nd

S74 "Where do I use this?" An Engineer Answers from 11:00-12:00 in 201 for 6th - 8th, 9th - 12th, College

S78 OMG! Graphic Organizers in Elementary Math Classroom from 12:15 - 1:15 in 102B for 7th - 12th

S82 Building Number Routines with Numberblocks from 12:15 - 1:15 in 201 for PreK - 2nd

S86 Incorporating Active Learning into the Math Classroom from 1:30 - 2:30 in 102B for 9th - 12th, College

S90 Area of Rectangle and Triangle of Absolute Difference from 1:30 - 2:30 in 201 for 6th - 8th, 9th - 12th

N25 ONE Strategy to Engage All Learners that Gets Results Fast from 8:30 - 10:00 in 101A for 6th - 12th

N29 Mining Mathematical Thinking from 8:30 - 10:00 in 202A for 3rd - 5th

N33 Technology Potpourri from 10:15 - 11:45 in 102A for 6th - 8th, 9th - 12th

T11 Is the "Slide, Divide, Bottoms Up" Method for Factoring Quadratic Functions Best for a Thinking Math Classroom? from 10:15 - 10:45 in 201 for 9th - 12th

S55 How to Create a High-Leverage Task That Elicits Effective Mathematical Communication from 8:30 - 9:30 in 103 for PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College

S59 The Power of SEL and Grit in the Math Classroom from 8:30 - 9:30 in 202B for PreK - 12th

S63 Strength in Numbers: How well do different body measurements predict strength? from 9:45 - 10:45 in 102B for 6th - College

S67 Fight Like a Girl: Addressing Disparities in Mathematics for Girls from 9:45 - 10:30 in 202B for 6th - 12th

S71 Flexibility with Numbers: The Building Blocks for Subtraction Success from 11:00-12:00 in 103 for PreK - 2nd, 3rd - 5th

S75 EdVenture's Mathematical Thinking and Expression Project from 11:00-12:00 in 202B for PreK - 2nd

S79 Experience 20 Years of Research-Based Math Games as a Student from 12:15 - 1:15 in 103 for PreK - 2nd, 3rd - 5th, 6th - 8th

S83 STEAM + Medical = Fun from 12:15 - 1:15 in 202B for 4th - 12th

S87 Using ALEKS to target instruction, build student ownership and reflection, to support personalize learning: from 1:30 - 2:30 in 103 for PreK - 2nd, 3rd

S91 Supporting and Strengthening Middle School Math Standards through The Stock Market Game from 1:30 - 2:30 in 202B for 6th - 8th

N26 Using TI-Nspire™ CX Technology in Algebra to Build Conceptual Understanding from 8:30 - 10:00 in 101B for 6th - 12th

N30 Helping Struggling Students Master Mathematics from 8:30 - 10:00 in 202C for 3rd - 5th

N34 Let Students Do the Heavy Lifting: High-Impact Routines to Develop Strong Mathematicians from 10:15 - 11:45 in 102C for PreK - 2nd, 3rd - 5th, 6th - 8th

T12 Mini Workshop: Hands-on and Self-Correcting Math Centers from 10:15 - 10:45 in 203 for 2nd - 5th
Updated - Different Session

S56 Using Discovery Education to Solve Your Math Problems from 8:30 - 9:30 in 104A for PreK - 2nd, 3rd - 5th, 6th - 8th

S60 SCETV Mathematical Resources from 8:30 - 9:30 in 203 for PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

S64 Coaching Math Teachers on the Benefits of Using the Mathematical Practices from 9:45 - 10:45 in 103 for PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

S68 Count Me In! from 9:45 - 10:00 in Atrium Alcove for PreK - 2nd, 3rd - 5th

S72 Unit Trackers for Building Student Agency from 11:00-12:00 in 104A for 3rd - 5th, 6th - 8th, 9th - 12th

S76 Workshop Model on the Secondary Level from 11:00-12:00 in 203 for 6th - 8th, 9th - 12th

S80 Let's Get Physical with Word Problems from 12:15 - 1:15 in 104A for PreK - 2nd, 3rd - 5th

S84 Student Centered Teaching & Learning in the Math Classroom from 12:15 - 1:15 in 203 for PreK - 2nd, 3rd - 5th, 6th - 8th

S88 Let's free our students' brains of whole-number bias using the Integrated Theory of Numerical Development from 1:30 - 2:30 in 104A for 3rd - 5th

S92 How to Put the "Productive" into the "Struggle" with STEMscopes Math from 1:30 - 2:30 in 203 for PreK - 2nd, 3rd - 5th

N27 Math Game Fundamentals - Games with Regular Dice from 8:30 - 10:00 in 102A for 3rd - 5th

N31 Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA! from 10:15 - 11:45 in 101A for 6th - 12th

N35 Taking a Chance: Probability and Statistics in the Middle Grades from 10:15 - 11:45 in 202A for 6th - 8th
Updated - Grade Level



Mini Schedule Program-at-a Glance

Friday Sessions

T sessions are 30 Minutes

S sessions are 60 minutes

N sessions are 90 minutes.

N36 From Math by Memorizing to Math by Understanding from 10:15 - 11:45 in 202C for PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College

N40 CARDIO, Meeting every unique learner at their just right challenge level and taking the immense lift off our educators; from 12:00 - 1:30 in 102C for 3rd - 12th

N44 Texas Instruments Showroom from 1:45-3:15 in 101B for 6th - 12th

N48 Closing Keynote Address from 1:45 - 3:15 in 202C for General

N37 Talk Mathy to Me: Using Mathematical Discourse to Engage Students from 12:00 - 1:30 in 101A for 6th - 12th

N41 Questions for Mathematical Thinking from 12:00 - 1:30 in 202A for K-5th

N45 Using Math Manipulatives as Tools of Proof from 1:45 - 3:15 in 102A for 3rd - 5th, 6th - 8th

N38 Bring Math Alive - Collect and Analyze Data Using the TI-84 Plus CE and TI-Nspire™ CX II from 12:00-1:30 in 101B for 6th - 12th

N42 What is Dreambox Learning from 12:00- 1:30 in 202C for K – 8th

Updated – Different Session

N46 Nimble with Numbers: Flexing Mathematical Muscle with Number Talks from 1:45-3:15 in 102C for PreK - 2nd

N39 Nimble with Numbers: Flexing Mathematical Muscle with Number Talks from 12:00 - 1:30 in 102A for PreK - 2nd

N43 Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA! from 1:45-3:15 in 101A for 6th - 12th

N47 Early Childhood Math Readiness from 1:45-3:15 in 202A for K-2nd



Certificate Renewal Credits



SCCTM no longer issues codes at the end of each session.

After the 2022 conference each session attendee will be emailed a certificate of attendance for the conference.

It is the attendee's professional responsibility to keep up with all staff development that he/she personally attends and to make certain that attendance is validated.

A personal planning form for the conference may be found within the pages following this information.

A copy of this information was also emailed ahead of time to each attendee registering at least two weeks prior to the conference.

Please check your email after the conference because certificates of attendance will be emailed. It is the attendees' responsibility to save a copy of the certificate(s) and to print a hard copy. SCCTM's system saves email tracking for six months after sending. After that time, SCCTM will no longer have a copy of your certificate.

Please print and save an electronic copy of your certificate(s) of attendance at the SCCTM conference.

SCCTM is unable to keep a record of session attendance perpetually due to online storage capacity being extremely expensive. Please print off and save the copies of your certificate(s) of attendance upon arrival in your email. It is suggested that you file a hard copy and save an electronic copy for future needs.

Keeping up with their own professional development points and proof is each attendees' professional responsibility.

If you volunteered as a speaker and wish to receive a speaker's certificate, please email your request to: director@scctmconference.org



Your Personal SCCTM Planning Sheet for Thursday, November 17, 2022
 Information 7:30 am to 3:30 pm Exhibits 8:00 am to 4:00 pm

| Session No. | Activity/Session Title | Time | Location |
|-------------|--|-------------|---------------------|
| N/A | Visit the Exhibits | | <i>Exhibit Hall</i> |
| | | | |
| | Keynote Session | 10:15-11:45 | 202 C |
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| | Keynote Session | 1:45- 3:15 | 202 C |
| | | | |
| 4:15 | 46 th Annual SCCTM Business Meeting & Awards Ceremony (Door Prizes) | | 202 C |

Your Personal SCCTM Planning Sheet for Friday, November 18, 2022
 Information 7:30 am to 3:30 pm Exhibits 8:00 am to 2:00 pm

| Time | Activity/Session Title | Session No. | Location |
|------|---------------------------|-------------|---------------------|
| N/A | Visit the Exhibits | | <i>Exhibit Hall</i> |
| | | | |
| | Keynote Session | 10:15-11:45 | 202 C |
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| | Closing Keynote Session | 1:45 – 3:15 | 202 C |

South Carolina Council of Teachers of Mathematics

Fall Math Conference

November 17 – 18, 2022

Greenville Convention Center, Greenville, South Carolina



General Information

1. Renewal credits must be related to the educator's professional growth plan and/or support the goals of the employing educational entity, and therefore, are subject to the approval of the educational entity. A pre-approval for this professional activity may be required.
2. SCCTM Conference credits will be issued under Option #10 of the SC Certificate Renewal Plan.
3. An educator may earn renewal credits only through activities for which all eligibility criteria have been met.
4. The educator is responsible for maintaining all required renewal credit verification and documentation.

Personal Planning:

1. Review the list of sessions available for each time period during the conference and select the sessions you would like to attend.
2. Plan an alternative session in case the session that you choose is full.
3. Write the session topic or title and room number in the space provided. Refer to this form throughout the conference.
4. Keep up with your list of the titles of the sessions that you attend.

Certificate Renewal Credits:

1. Sessions and workshops are of varying lengths and are counted according to the number of minutes involved.
2. You may earn up to 60 minutes for reviewing the instructional materials in the exhibit area.
3. Each hour of attendance in sessions or workshops is equal to one (1) certificate renewal point. To calculate the total number of points earned, you will need to add your total session and workshop minutes and divide by 60 to determine the credit points you earned.
4. Certificates of attendance will be emailed to you.
5. Retain your completed forms and personal planning sheets in your own Certificate Renewal File for submission according to your district's procedures.

Thursday Morning's Keynote Session



Andrew Tyminski, Ph.D.

Clemson University

Dr. Tyminski will present on Thursday morning

Session N12, 10:15 – 11:45 am

Room 202C

Dr. Andrew “Andy” Tyminski is a Professor of mathematics education at Clemson University. He has worked developing elementary mathematics teachers’ content and pedagogy through coursework and professional development activities. His research interests include the effect of learning trajectories in content courses on prospective teacher noticing, the content of mathematics methods courses, and teachers’ responsive problem-posing practices. He has been a Co-PI on both federal (NSF) and state-level (MSP) grants. He has recently published in the *Journal of Mathematics Teacher Education*, *Teaching and Teacher Education*, and *Mathematics Teacher Education and Development*. He is a co-editor of the AMTE Professional Series book, *Building support for scholarly practices in mathematics methods* (Kastberg et al., 2018). Prior to his career in higher education, he was a middle school mathematics teacher in Virginia Beach, VA and at the American School of the Hague in the Netherlands. Twitter: @DrAndyT.



Thursday Afternoon's Keynote Session



Zachary Champagne

hand 2 mind

Zachary Champagne will present on Thursday afternoon

Session N24, 1:45 – 3:15 pm

Room 202C

Zachary Champagne has been involved in mathematics education for over 20 years. He believes that each and every student has important mathematical ideas and works to share his passion and love for mathematics with teachers around the country. Zak is currently serving as a Lead Teacher at The Discovery School in Jacksonville, Florida where he teaches third and fourth grade students.

He has received many state and national awards for excellence in teaching, including the Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST), Duval County Teacher of the Year, Finalist for Florida Teacher of the Year, and the Kenneth Kidd Mathematics Educator of the Year award.

He tweets at [@zakchamp](https://twitter.com/zakchamp) and writes at www.zakchamp.com



Friday Morning's Keynote Session



Kevin Dykema

National Council of Teachers of Mathematics

Session N26, 10:15 – 11:45 am

Room 202C

Kevin Dykema has been an 8th grade math teacher in southwest Michigan for over 25 years and began a 2-year term as President of the National Council of Teachers of Mathematics in October 2022. He is co-author of *Productive Math Struggle*. Conducting many professional development sessions throughout the United States, he loves working with others to help improve mathematics education for each and every student. He was awarded the Michigan Council of Teachers of Mathematics Regional Director's Award in 2007 for outstanding contribution and leadership in mathematics education as well as the Service Award in 2014 and has served as regional director for the organization. He was annual conference chair for the organization from 2011-2016 as well as co-founding and co-chairing since 2015 a conference focused on mathematics for students with disabilities. Kevin was a 2017 state finalist for the Presidential Award for Excellence in Mathematics and Science Teaching. In 2019 he received an Alumni Achievement Award from Western Michigan University.



NATIONAL COUNCIL OF
TEACHERS OF MATHEMATICS

Friday Afternoon's Keynote Session



Bernard Frost, Ph.D.

Spartanburg School District Seven

Dr. Frost will present on Friday afternoon

Session N48, 1:45 – 3:15 pm

Room 202C

Dr. Bernard. E. Frost is currently the Executive Director of Curriculum and Instruction for Spartanburg School District Seven. Dr. Frost also serves as the Southern 1 Regional Director of NCTM Membership and Affiliate Committee board member of SC Learning Forward, the Past-President of South Carolina Leaders of Mathematics Education, past Director of Teacher Quality and Staff Development for Spartanburg School District Two; and most recently the 2020 recipient of SCCTM Outstanding Contribution to Mathematics Award. With over 17 years of teaching experience and conducting professional developments, Dr. Frost's passion for education is evident in his willingness to put forth 100% in developing professional development opportunities that assist educators in their ongoing process of improving instructional practices that impact student achievement. As a consummate researcher and practitioner in the field of education, Dr. Frost focuses on ways to improve instructional practices and student achievement. He continuously researches new strategies to meet the needs of administrators, instructional coaches, teachers and students. Frost says, "Inspiring other educators provides great insight on the future of education and allows him to have an impact on it."



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session T01 will be held in Room 201 from 9:40 - 10:10

Personalize Learning for ALL Students Through SuccessMaker Math

How can you effectively personalize math instruction to meet each student's unique learning needs? Come and learn how SuccessMaker® Math personalizes learning for all K-8 students through continuously adaptive instruction that adjusts to student performance in real time. You'll see how to build students' math confidence as they work on content from multiple math strands in each session. You'll get a sneak peek of how real-time instructional insights on student mastery and growth, along with offline targeted lessons in English and Spanish provide dat point-of-use empower teachers to deliver effective small group instruction. PreK - 2nd, 3rd - 5th, 6th - 8th

Gretchen Gose & Samantha Saxenmeyer

Savvas Learning Company (formerly Pearson K-12)



Session T02 will be held in Room 203 from 9:40 - 10:10

Strengthening Mathematical Thinking through Children's Literature and STEAM

This presentation will provide participants with ideas for using children's literature to address early childhood and elementary mathematics standards. Several of the activities presented will be STEAM-related. The ideas presented will use active learning to promote critical thinking and problem solving, while strengthening students' conceptual understanding of mathematics concepts. PreK - 2nd, 3rd - 5th

Christi McWaters & Bridget Coleman

East Aiken School of the Arts and USC Aiken



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session T03 will be held in Room 201 from 10:15 - 10:45

Combining problem-solving steps and strategies for the conceptualization of mathematics concepts

This session will provide hands-on activities to help teachers combine four problem-solving steps and eleven problem-solving strategies designed to enhance K-8 students' conceptual understanding of mathematics learning. Also, various websites will be introduced that can help teachers create a more innovative and problem-solving centered learning environment. PreK - 2nd, 3rd - 5th, 6th - 8th

Hsing-Wen Hu

Coastal Carolina University



Session T04 will be held in Room 203 from 10:15 - 10:45

A Change in Perspective: How using a Vertical Number can Lead to Rounding Success

Many times, a small change in perspective means a big change in understanding for our students! Come and learn how using a vertical number line and benchmark numbers can enhance your students' ability to work more flexibly with numbers, especially when estimating or rounding. Learn key vocabulary you can take back and use in your classroom right away to begin to build strength in student understanding of whole numbers, decimals, and fractions. PreK - 2nd, 3rd - 5th

Lisa Ross

Lexington School District 1



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session T05 will be held in Room 102A from 3:30 - 4:00

**Presidential Award for Excellence in Math and Science Teaching (PAEMST)
Alumni Meet and Greet**

Calling all PAEMST alumni! Join our session to network with other alumni and provide feedback regarding alumni activities and events. We look forward to meeting you! PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

Jenny Van Buren

Powdersville High School



Session T06 will be held in Room 102C from 3:30 - 4:00

Just the Facts: Using Reflex to level up student success in math!

Math-fact fluency is essential for math success! Traditional methods are great, but how can we collect data from these traditional methods more effectively to refine instruction? How about Reflex, a game-based system where students can experience individualized instruction and targeted practice while having fun! PreK - 2nd, 3rd - 5th, 6th - 8th

Jenna Mercury

Explore Learning



Session T07 will be held in Room 202A from 3:30 - 4:00

MATHiaFlex: Helping Teachers Meet the Needs of All Students

An introduction MATHiaFlex: Carnegie Learning's award-winning adaptive 1:1 math learning platform for grades 6–12. MATHiaFlex helps teachers ensure that students are mastering all relevant standards and alerts teachers when they need to intervene or challenge those students ready to accelerate, right in the moment. 6th - 8th, 9th - 12th

Dean Costakis

Carnegie Learning

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session T08 will be held in Room 202C from 3:30 - 4:00

Mini Workshop: 10 Days to Multiplication Mastery

Learn Multiplication tables in 10 days with fun methods of practice and understanding the power of commutative properties. 3rd - 5th

Rich Stuart

Learning Wrap-ups



Session S01 will be held in Room 100B from 8:30 - 9:30

Promethean Escape Room Experience

The Promethean Escape Room Experience challenges attendees with a series of puzzles and riddles that must be solved in order to escape. The goal? Escaping the room before time runs out. The escape room experience helps students build essential collaboration and critical thinking skills. Attendees can expect to work as a group to solve puzzles on Promethean's immersive classroom solutions, including the ActivPanel, ActivConnect and ClassFlow. The Promethean Escape room is limited to 10 attendees per session. Attendees must sign up in advance and will receive a check in QR code for Promethean sessions only. Click here to sign up for a Promethean session: <https://scctm.wildapricot.org/event-4996740> General

Ernie Faulkenberry

Promethean



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S02 will be held in Room 102B from 8:30 - 9:30

Break the 'Forgetting Cycle' Part 1: Spiral Review with Get More Math

By the end of the school year, students have already forgotten many of their hard-won math concepts. How can we break the forgetting cycle and make math stick? In this session, veteran math teacher Josh Britton will share his proven model for driving long-term retention through use of Get More Math software. 3rd - 5th, 6th - 8th, 9th - 12th

Josh Britton

Get More Math



Session S03 will be held in Room 103 from 8:30 - 9:30

Using Flexibility to Empower Students with Special Needs

This session will start with a unique perspective to help you see the need for flexibility within the math classroom to empower all students but especially those with special needs. Next, we will explore and discuss how we can use flexibility with tools, models, and technology to build deeper understanding with students with special needs. This session will help create a desire to empower all of your students by meeting their needs, without overwhelming you as a teacher. PreK - 2nd, 3rd - 5th

Angelia M. Cargill

High Point Academy



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S04 will be held in Room 104A from 8:30 - 9:30

Working Towards Getting All Students on Grade Level by Accelerating Learning

This session focuses on how to use formative assessment data and prerequisite standards to target instruction and accelerate learning. We will explore how to use math manipulatives along with pedagogical structures that can be used to support all students in becoming proficient at grade-level standards. Participants will leave with an understanding and framework for accelerating learning.

Sample: <https://drive.google.com/file/d/1GiTxZU2a0mWQxRLdfZ3NYds3epAu-Il1/view?usp=sharing> 3rd - 8th

Christine King

CKingEducation



Session S05 will be held in Room 104B from 8:30 - 9:30

Should We Use Manipulatives in Middle School? Absolutely!

Experience how a variety of hands-on tasks help students develop a conceptual understanding of complex topics. These mathematical tools help all learners! Join us as we use lessons and manipulatives from hand2mind to explore middle school and algebra concepts! These engaging lessons and hands-on tools build students' conceptual understanding! 6th - 8th

Leanne Luttrell

hand2mind



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S06 will be held in Room 201 from 8:30 - 9:30

Making Sense of Number Sense (K-5)

Often overlooked, this session will explore the deep number sense and algebraic thinking skills in 1st grade that lay the groundwork for success with multi-digit computation in subsequent grades. Experience a few of the models and strategies introduced in 1st grade so you can infuse them in your 2nd-5th grade lessons, if needed. PreK - 2nd, 3rd - 5th

Elizabeth Peyser

National Director, Content and Implementation Curriculum Associates



Session S07 will be held in Room 202B from 8:30 - 9:30

Math, Music and Movement

During this session, participants will engage in movement and music techniques that will support or enhance math skills. Presenters will share music, movement, and motivational strategies that can be used to “wake up” the math abilities of children in K-12 classrooms. K - 12th

Marilyn Izzard, Ph.D. & Kimberly C. Jordan, M.Ed.

University of South Carolina Upstate’s Director of the Real Men Are Teachers Program (RMAT)

NBCT, Spartanburg High School Engineering & Math Educator



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S08 will be held in Room 203 from 8:30 - 9:30

Using Math Micro-credentials for Personalized Professional Learning

We personalize learning for students, but how are we personalizing learning for educators? Educators in every role seek continuous improvement but are often limited by cost, inconvenience, and a one-size-fits-all approach to learning. CarolinaCrED delivers a range of customized support for capacity-building that accelerate opportunities for professional learners and leaders. Micro-credentials are personalized, flexible, performance-based ways to demonstrate competencies. In this session, participants will learn more about micro-credentials and how they can leverage personalized professional learning in their school, district, or organization. Then, as we think about teacher look-fors for Engaging Mathematical Practices, we will explore a math micro-credential as it relates to - "Healthy Math" and brainstorm ideas for others. PreK - 2nd – 12th

Elizabeth Scarbrough & Cindy Van Buren

CarolinaCrED - University of South Carolina College of Education



Session S09 will be held in Room Atrium Alcove from 8:30 - 9:30

SCCTM First Timers

Meet the SCCTM President and the Past-President. They understand that much of what an SCCTM first time conference attendee needs to know can only be gained through experience, but gaining that experience all on your own might mean missing out on something wonderful. In order to help our first timers become savvy SCCTM conference attendees, Ryan and Alisa will pass along the knowledge they've absorbed while attending SCCTM events and they'll share with you information on the worthwhile benefits of being and staying a member of SCCTM. They'll be there to answer any questions that you might have and to make sure that you're ready to make the most of your SCCTM Conference experience. General

Alisa Hobgood & Ryan Higgins

SCCTM President and Past President

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S10 will be held in Room 100B from 9:45 - 10:45

Promethean Escape Room Experience

The Promethean Escape Room Experience challenges attendees with a series of puzzles and riddles that must be solved in order to escape. The goal? Escaping the room before time runs out. The escape room experience helps students build essential collaboration and critical thinking skills. Attendees can expect to work as a group to solve puzzles on Promethean's immersive classroom solutions, including the ActivPanel, ActivConnect and ClassFlow. The Promethean Escape room is limited to 10 attendees per session. Attendees must sign up in advance and will receive a check in QR code for Promethean sessions only. Click here to sign up for a Promethean session: <https://scctm.wildapricot.org/event-4996740> General

Ernie Faulkenberry

Promethean



Session S11 will be held in Room 102B from 9:45 - 10:45

Oh My!! Cardio in Math

During this session you will be walking and running your math lesson using the motion detector from Texas Instruments. It's designed to demonstrate the relationship between time and distance. 6th - 8th, 9th - 12th

Louise Singleton

Allendale Fairfax High School



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S12 will be held in Room 103 from 9:45 - 10:45

Creating Access and Equity for all Students

Drawing on considerable experience in schools and in professional development in the U.S. and abroad, All Learners Network facilitator T.J. Jemison will lead an engaging session aimed at helping teachers work with and meet the needs of all students. Ways to include all students in Number Sense Routines, main lesson instruction, as well as ways to differentiate through Math Menu will be shared.

PreK - 2nd, 3rd - 5th

TJ Jemison

All Learners Network



Session S13 will be held in Room 104A from 9:45 - 10:45

Flexibility in Math Workshop!

Math workshop can be a scary transition from a traditional math classroom. In this session gain practical understanding of math workshop and flexibility in grouping students for learning tasks. Learn how to best facilitate “what the other kids are doing” while you are with a small group. Learn research-based strategies that align with the Common Core Standards for implementing your small group math instruction. Walk away with an implementation plan for math workshop.

PreK - 2nd, 3rd - 5th

Shannon Stone & Julie Carwile

Two Chicks & Arithmetic



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S14 will be held in Room 104B from 9:45 - 10:45

Not Just for Remote Learning. Using Desmos Activity Builder in Face-to-Face Classes

This session will illustrate how Desmos activity builder is used in math content classes for future teachers. Examples of activities will be shared that can be easily adapted into K-12 classrooms. Use of this tool allows for flexibility of solutions (flexibility), ease of sharing strategies to be critiqued by the class (strength), and ability to check for precision in students' arguments (cardio). PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College

Kevin LoPresto

Francis Marion University



Session S15 will be held in Room 202B from 9:45 - 10:45

EdVenture's Math Games

Teachers will participate in EdVenture's popular Math Games program that provides a chance to apply math concepts to real life problems and puzzles. Participants will work in teams in a competitive game show format to solve a series of challenges that require critical thinking and creativity, seeing how mathematics is a part of everyday life and how their choices will impact their final score. May the odds (and evens) be ever in your favor! K - 5th

Elena Tudor & Kendal Turner

Education Program Coordinator at EdVenture Children's Museum

Program Educator at EdVenture Children's Museum



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S16 will be held in Room Atrium Alcove from 9:45 - 10:45

PUMP UP your Math Battles - Secondary Math

Teachers will discuss, engage, and workout at stations centered on strategies to increase mathematical discourse, engagement, and curiosity in their classroom. We may even start a math fight by the end. These strategies will address the needs for middle school and high school content but can be used in all grade levels. 6th -12th

Jane D Seay

Spartanburg School District 7



Session S17 will be held in Room 100B from 11:00-12:00

Promethean Escape Room Experience

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Ernie Faulkenberry

Promethean



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S18 will be held in Room 102B from 11:00-12:00

Strengthening and Toning K-12 Math Standards with Statewide Competitions

In this session teachers will learn how to “strengthen and tone” math standards in their K-12 classrooms using The Stock Market Game, SC Finance Challenge and Color the Concepts. Financial literacy can be an overlooked area of mathematics. With statewide competitions such as The Stock Market Game, SC Finance Challenge and Color the Concepts, teachers can reinforce and support numerous traditional math standards in a fun and engaging way. Teachers will leave feeling empowered and ready to bring these FREE resources back to their classrooms to implement right away! K – 12th

Megan Freiburger

South Carolina Council on Economics



Session S19 will be held in Room 103 from 11:00-12:00

Building Math Strength by Connecting Math Practices, Children’s Literature, and Flip Grid

What do you have when you mix mathematical practices, children’s literature, and Flip Grid? The ingredients for meaningful, relevant math problem solving among learners. We will share success stories and examples of actively engaging elementary students in the classroom and in remote settings. PreK - 2nd, 3rd - 5th

Abby Routman Henry & Bridgette Coleman

Belvedere Elementary School



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S20 will be held in Room 104A from 11:00-12:00

Co-Teaching Mathematics – Middle and High School Teacher Residents in the Classroom

Co-teaching mathematics is the primary instructional model used in the internship. In this session, teacher residents will highlight the benefits of co-teaching in middle level and high school settings and will demonstrate team teaching with an engaging mathematical topic that will encourage problem solving, reasoning, and strategic collaboration. 6th - 8th, 9th - 12th

Jasmine Moyd & Jacobe Reid

Winthrop University



Session S21 will be held in Room 104B from 11:00-12:00

Flexibility with Fraction Understanding

Most students don't have a conceptual understanding of fractions. Using hands-on manipulatives such as Cuisenaire Rods, Color Tiles, and Pattern Blocks can help empower students to confidently understand fractions. We will also explore ready-made lessons from hand2mind that use common manipulatives to strengthen fraction conceptual development. Come explore some new ideas! 3rd - 5th

Angie Meredith

hand2mind



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S22 will be held in Room 201 from 11:00-12:00

Classify Polygons using the Quadrilateral Umbrellarella

Participants will understand that shapes in different categories may share attributes. They will use a graphic organizer to help answer questions such as, "can a square be called a rectangle?" Participants will discuss the unique property of each quadrilateral to include parallelograms, rhombi, rectangles, squares, and trapezoids. Participants will also learn to justify their reasonings of hierarchy classification. 3rd - 5th

Valencia F Thornton

CRAM Academy



Session S23 will be held in Room 202B from 11:00-12:00

Supporting Math Skills through Physical Activity

Research has well established the benefits of physical activity. However, further research is needed for the exploration of the impact physical activity has on math performance in young children. You will not spend your time in this session in sedentary activity but high energy movement that supports health, wellbeing and increases math comprehension for children in your classroom. PreK - 3rd

Sherrie Dueno

Project Manager, ABC Quality South Carolina Department of Social Services



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S24 will be held in Room 203 from 11:00-12:00

Number Lines 101: the Fundamentals (K-3)

Number lines are a lovely sense-making model from early elementary to secondary mathematics. Sometimes the construction and understanding are a bit elusive to students and educators! Join us for hands-on learning to build and use this important mathematics tool. Establishment of a linear sense of numbers and number paths in the primary grades will be explored. This session complements the NCTM February 2022 article: "Linking Number Sense to Linear Space" PreK - 2nd, 3rd - 5th

Elizabeth Peyser

i-Ready - Curriculum Associates



Session S25 will be held in Room Atrium Alcove from 11:00-12:00

Use TI-84 or TI-Nspire Graphing Technology Creatively for Greater Success on ACT and SAT

Focus on conceptual understanding of "big ideas": linear equations, quadratics, multiple representations, thinking graphically, words to symbols, use structure, solve systems using creative technology integration. Obtain activities, strategies, exam questions that augment what you do for test prep. Address how differently ACT/SAT ask questions. 6th - 8th, 9th - 12th

Tom Reardon

Fitch High School / Youngstown State University



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S26 will be held in Room 102B from 12:15 - 1:15

Math Rigor and MTSS- They are Not Opposites!

With a growing need to utilize the MTSS (Multi-Tiered Systems of Supports) in our school, it is important to understand that rigor must be upheld. This session will give you practical ways to implement MTSS using higher level thinking skills and math practice standards, even in middle school. Participants will leave with an outline and framework to engage the conversations surrounding the level of math rigor in the classroom in combination with providing ALL students with the support they need to achieve success. 6th - 8th

Dr. Linda Branham & Merriman Nichols

Kershaw County School District



Session S27 will be held in Room 103 from 12:15 - 1:15

"Healthy" Project Ideas and How to Finance Them

You will learn how to implement few project ideas involving the analysis of the best cardio exercises using lines or curves of regression, the construction of domes for a greenhouse and the prediction of a plant growth. As bonus, the audience will receive a template of the projects together with the info of the grants that can be used for the sponsorship of the projects. 6th - 12th

Simona Spinner

Military Magnet Academy, CCSD



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S28 will be held in Room 104A from 12:15 - 1:15

Journey to Building a Thinking Classroom

How we transformed from teaching with a traditional lecture style, to small group blended instruction, to building a thinking classroom with Vertical Non-Permanent Surfaces. This classroom shift is a move from having students mimic the method to having students progress through productive struggle and become real world problem solvers. Students will learn how to think critically, develop perseverance, and build their mathematical confidence! 9th - 12th

Josh Paul & Chris Jordan

Aynor High School



Session S29 will be held in Room 104B from 12:15 - 1:15

Hands-on and Self-Correcting Math Centers

This is your opportunity to play with, and KEEP, hands-on and self-correcting materials that help K-5 students with Numeration, Algebra, Geometry & Measurement, and Probability and Statistics. PreK - 2nd, 3rd - 5th

Rich Stuart

Learning Wrap-ups



Session S30 will be held in Room 201 from 12:15 - 1:15

Strengthen Your Desmos Muscles with Activity Builder & Polypad

Desmos is a tool we use to help students build strength and endurance by engaging their core mathematical muscles with problem solving, visualization, and reasoning. This session will provide time to experience different types of activities available in Desmos including Polygraphs, Card Sorts, and Polypad. Come break a Desmos sweat! 9th - 12th

Lindsey Poston & Eleanor Pusey

Loris High School and Horry County Schools

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S31 will be held in Room 202B from 12:15 - 1:15

Building Healthy Relationships: Ideal Customer Service

This session will highlight the many ways to build and strengthen relationships between teachers and students, using some of the highly successful strategies employed by the Chick-fil-A organization. The presentation will be facilitated by a representative of the Learning and Diversity Team at the organization's headquarters in Atlanta, who is also a Call Me MISTER graduate. PreK - 12th

Charlie Wider, M.Ed.

Learning and Delivery at Chick-fil-A Inc. Atlanta, GA



Session S32 will be held in Room 203 from 12:15 - 1:15

Math Nation & Kellogg's: Bringing Middle School Math to Life

Want use 6th grade math to make a nutrition label or teach irrational numbers with Cheez-its? Teachers will be ready to teach Math Nation's newest activities created in collaboration with Kellogg's! (There may or may not be snacks, don't miss this!) There is SO much more to Math Nation than workbooks & videos. Come learn how to kick up engagement using these SCCCR-aligned, SCDE-purchased resources. 6th - 8th

Dr. Tiffany Arnold & Dana Jenkins

Math Nation



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S33 will be held in Room Atrium Alcove from 12:15 - 1:15

Break the 'Forgetting Cycle' Part 2: Cumulative Testing with Get More Math

Unit testing in math has trained student brains to experience math gains as disposable: learn it, test it, lose it. In this session, we explore breaking the cycle of gain and loss with cumulative testing using Get More Math software. 3rd - 5th, 6th - 8th, 9th - 12th

Josh Britton

Get More Math



Session S34 will be held in Room 100B from 1:30 - 2:30

Promethean Escape Room Experience

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Ernie Faulkenberry

Promethean



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S35 will be held in Room 102B from 1:30 - 2:30

OMG! Graphic Organizers in Elementary Math Classroom

Come make an OMG student reference containing graphic organizers with steps, examples, and vocabulary for key concepts of an entire year's curriculum. This creative guide will transform your classroom and help students become self-sufficient learners! You must see it to believe it! All attendees will learn about the use of graphic organizers in the math classroom and will make a unique organizer for them. Each participant will also make three graphic organizers specific to the grade taught (grades 2 - ALG2). This is a program I developed in my classroom and I will share my school's success with standardized test scores after implementing it school wide! The OMG gives the student ownership of his or her math! The student builds, it, the student keeps it, and the student uses it. They own the math! 2nd - 6th

Rhonda Davis

OMG



Session S36 will be held in Room 103 from 1:30 - 2:30

Striving to Get students to Think

In this session, participants will look at various ways to get students engaged and to build problem solving abilities through collaboration 6th - 8th

Emily Strickland

Greenville Virtual School



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S37 will be held in Room 104A from 1:30 - 2:30

Mathematics in Movies and Television Part 2

Movies and television situations are presented that sometimes have mathematical and physical content. The talk will analyze several of the situations.

9th - 12th, College

Dr. George E. Schnibben

Francis Marion University



Session S38 will be held in Room 104B from 1:30 - 2:30

PBS Learning Media Math Resources

This session will emphasize strategies for implementing engaging hands-on activities that integrate technology via PBS Learning Media. PBS Learning Media is a free platform with standard-based interactives and worksheets available to educators. PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

Dr. Brian Day

SCETV



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S39 will be held in Room 201 from 1:30 - 2:30

P.L.C – The THREE Letters Behind Student and Teacher Equity and Success

In this session, teachers and leaders will explore the foundations of a solid Professional Learning Community and understand how collaboration during PLC yields student success. Participants will experience a simulation of a fully operational PLC by unpacking standards, analyzing data, and sharing/modeling instructional strategies to obtain student mastery of standards and learning targets. This session will also show participants how PLCs aid in creating equity amongst students as well as mathematics teachers. 3rd - 5th, 6th - 8th, 9th - 12th

LaWanda Knight & Valencia Thornton

Fulton County Schools (Georgia)



Session S40 will be held in Room 202B from 1:30 - 2:30

Let's Get Warmed Up!

What's the best way to make math engaging and accessible for all students? Start with some fun! We'll explore warm-up routines that simultaneously motivate students and build number sense. We all know how crucial flexibility is for math fitness, but are we giving students enough opportunities to build it? Daily math warm-ups are a great tool for this. PreK - 2nd, 3rd - 5th

Tami Broomall

Spartanburg District 6



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S41 will be held in Room 203 from 1:30 - 2:30

There's Strength in Numbers

How many times have you said or have heard another educator say their students do not have number sense? During this session, you will learn what it means to have number sense and what you can do to foster number sense in your students.

PreK - 2nd, 3rd - 5th

Heather Price & Dawn Jacobs

Centerville Elementary School



Session S42 will be held in Room Atrium Alcove from 1:30 - 2:30

Understanding Angle Relationships

Join us for engaging, hands-on tasks using AngLegs and AngLegs Plus from hand2mind to examine the angle relationships of parallel lines cut by a transversal, prove the triangle sum theorem, identify criteria for similar and congruent triangles, and more! Understanding angle relationships improves students' conceptual understanding of geometry! 6th - 8th

Leanne Luttrell

hand2mind



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S43 will be held in Room 100B from 2:45-3:45

Promethean Escape Room Experience

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Ernie Faulkenberry

Promethean



Session S44 will be held in Room 102B from 2:45-3:45

The Buzz on Pollination

This presentation highlights how math and STEM students collaborated using the Design Thinking Process to find solutions to a vital real-world issue on pollinators. Students sketch, rake, carry, measure, calculate and dig their way through a highly engaging project facilitated by the 2020 SC STEM Educator of the Year and school math interventionist. 6th - 8th

Tracy Elmore & Crystal Blanton

Lugoff-Elgin Middle School



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S45 will be held in Room 103 from 2:45-3:45

Cross-Training - Creating Healthy Digital Collaborative Online Learning Math Environments

Statement of the problem: 1:1 online tutoring-environments do not consistently create the conditions for student conversations where students are encouraged to explain their thinking and talk about each other's thinking. Conflict: 1:1 learning is valuable in a digital learning environment because it allows student schedule flexibility and personalization. How can we get the best of both worlds? Solution: Scheduled small, collaborative groups or 3 to 4 students can implement all 8 practices while maintaining some of the scheduling flexibility and personalization of 1:1 instruction and creating the conditions for student conversations where students are encouraged to explain their thinking and talk about each other's thinking. 3rd - 5th, 6th - 8th

Mark Mobley

Cognition



Session S46 will be held in Room 104A from 2:45-3:45

Teaching Problem Solving to All Students

Teaching students to reason and problem solve is the cornerstone of quality math instruction. We will highlight several engaging strategies such as Three Reads and Numberless Word Problems that will provide multiple entry points for students to engage in math. PreK - 2nd, 3rd - 5th

Suzan Morris

STEMscopes by Accelerate Learning, Houston, TX



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S47 will be held in Room 104B from 2:45-3:45

Teaching About Our World with Mathematical Models and Manipulatives

In this interdisciplinary workshop discover activities that bring current events and top global challenges into the math classroom. Explore trends in the environment, global population and more using models, manipulatives and lively group work that build middle school math skills while exciting students about math connections to their lives. 6th - 8th

David Messer & Carol McCullough

Retired Associate Professor of Education, Clayton State University (GA)



Session S48 will be held in Room 201 from 2:45-3:45

Math YOGA: Yearlong Outstanding Gains in Achievement

Using the OAS Data Review to drive instruction and design effective classroom assessments. 3rd - 5th, 6th - 8th, 9th - 12th

Sandra Ammons, Daniel Cammisa, Marquita Blaylock,

Janelle Wilson & Dawn Hood

South Carolina Department of Education



Session S49 will be held in Room 202B from 2:45-3:45

Hands-On Learning: Meaningful Mathematics for All

Who knew math could be so fun? Hands-on learning provides opportunities for students to build deep understanding of make the meaningful. Meaningful learning requires less re-teaching of concepts. Participants will explore activities focused on number sense and fluency. PreK - 2nd

Cindy Washington

Richland One

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S50 will be held in Room 203 from 2:45-3:45

Math and Cybersecurity Go Hand in Hand

Teaching math through Computer science makes math applicable to real life. In this session we will discuss relationships between misinformation, disinformation, and privacy by connecting it to algebraic and geometric proofs in math. This will be an interactive session with opportunities for participants to make these connections by doing the math and computer science work. 6th - 8th

Lee-Ann S Livingston & Nicole Bannister

Greenwood District 51



Session S51 will be held in Room Atrium Alcove from 2:45-3:45

Flex your Fraction Muscles: Tidbits for Your Toolkit

Build fraction understanding and empower your students by teaching them to count by fractions! Students need the same practice counting by fractions as they do whole numbers, before they can add or subtract. Also, have you ever thought about teaching fraction families? For example, $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{1}{8}$ are a “family” and can be related to a ruler. Come and collaborate with colleagues by doing some hands-on learning while discussing these and other tidbits that will build precision with fractions for your students. 3rd - 5th

Lisa Ross & Heather Price

Lexington School District 1



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N01 will be held in Room 101A from 8:30 - 10:00

Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA!

Increase student engagement and math discourse? Check. Auto-grade open-ended questions? Check. 65,000+ math questions with personalized feedback and complete solutions. Check. Live, comprehensive, robust standards-based - reporting? Check. Plus, there's so much more! Come see what Derivita's one-of-a-kind math courseware and assessment platform, powered by a proprietary Computer Algebra System, is all about. Be prepared to participate and to have fun! 6th - 12th

Delvin Daley & Sherri Abel

Derivita



Session N02 will be held in Room 101B from 8:30 - 10:00

Integrating TI-84 Technology in Your Classroom

Whether you are new to the math classroom, or new to TI-84 technology, we will help you get off to a great start! Come see how this powerful technology can help your students visualize concepts clearly and make faster, stronger connections between equations, data, and graphs. Leave with tutorials, resources, and videos to help you and your students. TI Tech: TI-84 Plus CE 6th - 12th

Tom Reardon

Texas Instruments



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N01 will be held in Room 102A from 8:30 - 10:00

Power Play - Primary Place Value Games

Come prepared to play our favorite games for the following concepts: understanding 10's, 100's, composing/decomposing #'s, comparing numbers, identifying place value, developing the foundation for rounding and expanding #'s, using number lines, patterns. Games and activities are great for both whole class and small group instruction, and are easy to differentiate. Handout will include gameboards. PreK - 2nd

Lori Triplett

Box Cars and One-Eyed Jacks



Session N04 will be held in Room 102C from 8:30 - 10:00

Math & Science Collide: Catapult Build, Video Shoot, & Gather Data

Bring your laptops & a flash drive to join the fun. In this session we will build a catapult, video the launch of marshmallow/bead projectiles, & use tracker software to pull data from those launches. In our session you will get first-hand experience on how to use the FREE tracker software to pull data points from the videos you/your students record, & then we will use that data to write the equation of the parabolic curve that models the projectile motion. We will try to provide cameras, but if you bring phone/tablet it may make things quicker for you. 9th - 12th

Tonya Todd, Chandler Irvin, Urica Brown & Renea Morris

Georgetown High School



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N05 will be held in Room 202A from 8:30 - 10:00

Math Mindset Matters

What are mathematical mindsets? How do they impact learning? In this interactive session, engage in activities to support development of a mathematical mindset, assess your own mathematical mindset, and examine research on the impact of mindsets on learning. General

Terrie Rathburn & Rhett Nettles

S2TEM



Session N06 will be held in Room 202C from 8:30 - 10:00

Tips and Tools to Facilitate Meaningful Math Discourse in Your Classroom

Talking math isn't always easy as 1,2,3. Math can be abstract and questions about unknown variables are bound to pop up. How can you help your students have meaningful conversations about math concepts that are simple, complex, and anything in between? Join in for tips and tools to get your students comfortable with talking about everything math! 3rd - 5th, 6th - 8th

Jenna Mercury

Explore Learning



Session N07 will be held in Room 101A from 10:15 - 11:45

Talk Mathy to Me: Using Mathematical Discourse to Engage Students

Issues getting students to talk....mathematically? This session will focus on implementing low floor, high ceiling tasks 6th - 12th

Sherri Abel

Derivita

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N08 will be held in Room 101B from 10:15 - 11:45

Let's put Math in Motion with the TI-Innovator Rover™

Join us as we explore Algebra, Geometry and Science concepts through programming the TI-Innovator Rover. We will discover geometric formulas, and investigate the relationship between position, time, speed and velocity. No prior coding/programming experience is required. TI Tech: TI-84 Plus CE & TI-Nspire™ CX II 6th - 12th

Ruth Casey

Texas Instruments



Session N09 will be held in Room 102A from 10:15 - 11:45

Help! I Need a Tool to Bring the Mathematical Practices to Life!

“I know that mathematical practices are important, but I need tools to support my students!” Sound familiar? What if there was already a tool out there that provides opportunities for self-assessment, feedback, and conferencing with the mathematical practices? Join us to learn how to use the Profile of the SC Graduate (PSCG) Competencies as a flexible tool for monitoring growth with the mathematical practices. No need to start from scratch when something already exists to get started! As a result of this session, you will be able to explain the purpose behind PSCG Competencies. Attendees will leave this session with multiple ways to use, or adapt the PSCG Competencies and have the opportunity to create a tool of their own. In addition to the resources, attendees will also leave with a new network of colleagues who are exploring the same practices of personalized, competency-based learning in their own school settings. PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College

Kristen Logan & Nadine Groh

South Carolina State Department, Office of Personalized Learning

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N10 will be held in Room 102C from 10:15 - 11:45

Polynomial DaMath

Learn operations on functions through playing checkers 6th - 8th, 9th - 12th, College

Mario Ramon

CA Johnson High School



Session N11 will be held in Room 202A from 10:15 - 11:45

Tech-Based Math

Efficiently embed technology tools into your instructional practice. Explore ideas for streamlining your instruction with technology. 6th - 8th

Rhett Nettles & Terrie Rathburn

S2TEM



KEYNOTE SESSION

Session N12 will be held in Room 202C from 10:15 - 11:45

“The Salmon Joke: A mindset for student sense making”

What is green, has four wheels, and hangs on the wall?” The answer might surprise you. Come to Dr. Tyminski’s keynote session to learn about the “salmon” approach to student sense making in mathematics and how to help your students develop a mindset for extending their knowledge by making mathematical connections. Examples from elementary, middle grades and high school grade bands will be shared. General

Andy Tyminski

Clemson University

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N13 will be held in Room 101A from 12:00 - 1:30

Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA!

Increase student engagement and math discourse? Check. Auto-grade open-ended questions? Check. 65,000+ math questions with personalized feedback and complete solutions. Check. Live, comprehensive, robust standards-based reporting? Check. Plus, there's so much more! Come see what Derivita's one-of-a-kind math courseware and assessment platform, powered by a proprietary Computer Algebra System, is all about. Be prepared to participate and to have fun! 6th - 12th

Delvin Daley & Charles Ward

Derivita



Session N14 will be held in Room 101B from 12:00-1:30

Integrating TI-Nspire™ Technology in Your Classroom

Whether you are new to the math classroom, or new to TI-Nspire™ technology, we will help you get off to a great start! Come see how this powerful technology can help your students visualize concepts clearly and make faster, stronger connections between equations, data, and graphs. Leave with tutorials, resources, and videos to help you and your students. TI Tech: TI-Nspire™ CX II 6th - 12th

Sherri Abel

Texas Instruments



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N13 will be held in Room 102A from 12:00 - 1:30

Oh the Math That They'll Know! PreK - K Math Games

Come prepared to play games and learn strategies that will empower your youngest students. The PreK - K concepts covered will include: subitizing, ordering and comparing numbers, doubles strategies, count on and back for early operations, make 10, 20, using number lines for early operations and patterns. These underlying concepts lay the foundation for success in primary and are essential to build. If your 1st. and 2nd graders have learning gaps, this session will be beneficial. The activities are perfect for whole class and center instruction, easy to differentiate and incorporate the use of dice and cards. Handout will contain gameboards for immediate use Monday. PreK - 2nd

Jane Felling

Box Cars and One-Eyed Jacks



Session N16 will be held in Room 102C from 12:00 - 1:30

On Your Feet, Out of Your Seat Math!

Want to transform the way your students participate in math? Join this session to learn how to increase student thinking and engagement by getting your students out of their seats and collaborating with their peers. We will model a dynamic teaching method which allows students to work on vertical surfaces in random groupings. Building this type of classroom allows students to think through complex problems while relying on each other and less on the teacher. This classroom shift is a move from having students mimic the method to having students progress through productive struggle and become real world problem solvers. Students will learn how to think critically, develop perseverance, and build their mathematical confidence! 6th - 8th, 9th - 12th

Amy Marsh & Lauren Macheski

Horry County Schools, St. James High School

Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N17 will be held in Room 202A from 12:00 - 1:30

Mining Mathematical Thinking

Dig into student work to make sense of learners' mathematical thinking. Identify possible strategies to move them forward. K-2nd

Kenna Alewine & Margaret Lorimer

S2TEM



Session N18 will be held in Room 202C from 12:00 - 1:30

What's Your Angle on Angles? (4-HS)

Do your students struggle to “see” angle relationships? Are protractors perplexing? This hands-on session will explore three perspectives of angles: shape, fraction, and turning, to illuminate angle measurement understanding and explore application of angle relationships in secondary mathematics. 3rd - 5th, 6th - 8th, 9th - 12th

Elizabeth Pesyer

i-Ready -Curriculum Associates



Session N19 will be held in Room 101A from 1:45-3:15

Enhancing Learning Through Thinking Tasks

The data is staggering! In a typical one-hour lesson, 75%-85% of the students are non-thinking 100% of the time, and the rest that time.

Sheri Abel

Derivita



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N20 will be held in Room 101B from 1:45-3:15

Using TI-84 Technology in Algebra to Build Conceptual Understanding

Join us as we explore how to use the TI-84 family for more than computation & basic graphing. From systems of equations to families of functions (linear, quadratic, trigonometric, polynomial, rational, ...), we will go beyond the basics as we use images, graph databases, APPS, and programs to support student understanding and concept development. TI Tech: TI-84 Plus CE 6th - 12th

Tom Reardon

Texas Instruments

Session N21 will be held in Room 102A from 1:45 - 3:15



Responding to Student Data - Making Real Time Decisions Using Small Group Instruction

Responding to what students say and do in Math class is essential to creating a vibrant, healthy learning environment. It is also critical for addressing student needs and getting results. By using a small group instruction and quick data tools, teachers will learn how to alter their practice in favor of greater flexibility and responsiveness. 6th - 8th, 9th - 12th

Elliott K McCarthy

Spartanburg District 5 - Florence Chapel Middle School



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N22 will be held in Room 102C from 1:45-3:15

Strengthening Geometry through Hands-On Investigations and Activities

During this session, participants will engage in activities designed to help students investigate and discover geometric concepts. Practical tips for managing the class during the activities, as well as, ready to use resources will be provided. 9th - 12th

Jennifer Wilson & Alexandria Marie Wilson

Aiken County



Session N23 will be held in Room 202A from 1:45-3:15

Data Science and Algebra

As information accessibility continues to increase, data literacy becomes an essential workforce skill for students at all levels. In this interactive session, build your flexibility with incorporating data into your algebra lessons to support student engagement and understanding of mathematics in our world. 9th - 12th

Terrie Rathburn & Rhett Nettles

S2TEM



Thursday, November 17, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

KEYNOTE SESSION

Session N24 will be held in Room 202C from 1:45 - 3:15

The Teaching and Learning of Mathematics is About Ideas

The teaching and learning of mathematics is about ideas. It's about the journey. While many math educators suggest the answer is the most important part, I'm not convinced that's true. In this session, we'll explore how the teaching and learning of mathematics should be focused on ideas more than answers, and kids more than content. General

Zachary Champagne

Sponsored by Hand 2 Mind



The SCCTM Business Meeting will be held in Room 202C from 4:15 - 6:00

SCCTM Meeting and Awards

Join the SCCTM Board to learn the results of this year's elections, honor those who have earned awards. Enter the drawing for fabulous door prizes by depositing the door prize ticket that came with your registration name badge as you enter the business meeting. You must be an SCCTM member to enter and you must be present to win. If you are a new member and your membership number isn't on your door prize ticket, please check in your SCCTM account for your number.



SCCTM Executive Board

South Carolina Council of Teachers of Mathematics

Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session T9 will be held in Room 201 from 9:40 - 10:10

Is the "Slide, Divide, Bottoms Up" Method for Factoring Quadratic Functions Best for a Thinking Math Classroom?

The Slide, Divide, Bottoms Up Method for factoring is widely accepted by math education communities. In particular, it is accepted by my own math department at Wade Hampton as it is the only method taught in Honors Algebra 2. Thus, this raises many questions: Is this the best factoring method to be teaching students? What are the drawbacks to only teaching this one method? Why was teaching only this method decided by a math department in the first place? I plan to examine the method critically from a Mathematician perspective. The goal is to develop an idea of how much mathematical thought and reasoning is being conducted in the brains of our students when they employ "Slide, Divide, Bottoms Up." In the analysis I have already conducted, I have found that the procedural nature of the method discourages student independent thought. As a matter of fact, there is hidden mathematical thought (which was conducted in the derivation) that a student most likely will never realize. One of the disturbing things about the method is that it violates a basic mathematical rule utilized in Algebra all the time. Furthermore, I found that if the greatest common factor is not factored out first in the first-step then the entire method fails to work entirely. My hypothesis is that high school math departments choose to teach this method because it is procedural. Procedural mathematics is easy to teach because it does not require students to employ mathematical reasoning or understanding. "Just follow these steps and you'll get the right answer." To teach another factoring method which forces our students to think creates an environment of potentially struggling students because employing mathematical thought is a difficult skill. Is creating this type of environment worth it if our students are thinking? I would argue that it sure is! 9th - 12th

Hannah Thomas

Wade Hampton High School



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session T10 will be held in Room 201 from 9:40 - 10:10

Learning Centers Energize the Math Classroom

Math learning centers offer elementary students opportunities to explore math concepts through the lens of hands-on activities, cross-curricular connections, children's literature, technology, and more. We will share sample centers and resources. 3rd - 5th, 6th - 8th

**Bridget Coleman, Alle Carlin, Angela Johnson Farrell, Melissa Shaver,
James Walsh, Rachel Weatherford & Madeline Whitaker**

University of South Carolina, Aiken



Session T11 will be held in Room 201 from 10:15 - 10:45

Is the "Slide, Divide, Bottoms Up" Method for Factoring Quadratic Functions Best for a Thinking Math Classroom?

The Slide, Divide, Bottoms Up Method for factoring is widely accepted by math education communities. In particular, it is accepted by my own math department at Wade Hampton as it is the only method taught in Honors Algebra 2. Thus, this raises many questions: Is this the best factoring method to be teaching students? What are the drawbacks to only teaching this one method? Why was teaching only this method decided by a math department in the first place? The goal of this critical thinking sessions is to develop an idea of how much mathematical thought and reasoning is being conducted in the brains of our students when they employ "Slide, Divide, Bottoms Up." One of the disturbing things about the method is that it violates a basic mathematical rule utilized in Algebra all the time. My hypothesis is that high school math departments choose to teach this method because it is procedural. Procedural mathematics is easy to teach because it does not require students to employ mathematical reasoning or understanding. "Just follow these steps and you'll get the right answer." 9th - 12th

Hannah Thomas

Wade Hampton High School

Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session T12 will be held in Room 203 from 10:15 - 10:45

Mini Workshop: Hands-on and Self-Correcting Math Centers

This is your opportunity to play with, and KEEP, hands-on and self-correcting materials that help K-5 students with Numeration, Algebra, Geometry & Measurement, and Probability and Statistics. PreK - 5th

Rich Stuart

Learning Wrap-ups



Session S53 will be held in Room 100B from 8:30 - 9:30

Promethean Escape Room Experience

The Promethean Escape Room Experience challenges attendees with a series of puzzles and riddles that must be solved in order to escape. The goal? Escaping the room before time runs out. The escape room experience helps students build essential collaboration and critical thinking skills. Attendees can expect to work as a group to solve puzzles on Promethean's immersive classroom solutions, including the ActivPanel, ActivConnect and ClassFlow. The Promethean Escape room is limited to 10 attendees per session. Attendees must sign up in advance and will receive a check in QR code for Promethean sessions only. Click here to sign up for a Promethean session: <https://scctm.wildapricot.org/event-4996740> General

Ernie Faulkenberry

Promethean



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S54 will be held in Room 102B from 8:30 - 9:30

Algebra for Everyone: Conceptual Strength Through “Discovery Light”

Too often, students experience Algebra as a series of obscure processes governed by teacher-provided formulas. Let’s change this! This session explores ways that students can build meaning through discovery of Algebraic tools and reasoning.

3rd - 5th, 6th - 8th, 9th - 12th

Josh Britton

Get More Math



Session S55 will be held in Room 103 from 8:30 - 9:30

How to Create a High-Leverage Task That Elicits Effective Mathematical Communication

In this session, attendees will learn how to create and implement a high-leverage task that elicits effective mathematical communication using research-based principles. The main goal is for attendees to understand what constitutes a high-leverage mathematical task and practice creating a similar task they can use immediately in their classroom. PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College

Jennifer Kornell

Clemson University - PhD student



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S56 will be held in Room 104A from 8:30 - 9:30

Using Discovery Education to Solve Your Math Problems

All SC educators have access to Discovery Education through the SCDOE Instruction Hub. Attend this session to learn new way to engage learners with multimodal digital content to reinforce computational thinking and math concepts. With this session, you will be equipped with videos, ready to use math lessons, interactive games, instructional strategies, and much more. Discovery can be used to increase engagement and increase real world connections with important math concepts. PreK - 2nd, 3rd - 5th, 6th - 8th

Andrea Lance

Discovery Education



Session S57 will be held in Room 104B from 8:30 - 9:30

Algebra is Accessible with Algeblocks!

Join us as we explore rich, engaging, hands-on tasks using Algeblocks from hand2mind to promote a strong, conceptual understanding of challenging algebraic concepts, such as solving systems of equations and factoring trinomials. These mathematical tools help all students develop a conceptual understanding! Algebra is accessible to all students! 6th - 8th

Leanne Luttrell

hand2mind



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S58 will be held in Room 201 from 8:30 - 9:30

Math Nation & Kellogg's: Bringing High School Math to Life

Want to introduce quadratics with Pringles or surface area/volume with Eggo Waffles? Teachers will be ready to teach Math Nation's newest activities created in collaboration with Kellogg's! (There may or may not be snacks, don't miss this!) There is SO much more to Math Nation than workbooks & videos. Come learn how to kick up engagement using these SCCCR-aligned, SCDE-purchased resources. 9th - 12th

Dr. Tiffany Arnold & Dana Jenkins

Math Nation - South Carolina



Session S59 will be held in Room 202B from 8:30 - 9:30

The Power of SEL and Grit in the Math Classroom

This session discusses effective implementation of socio-emotional learning and grit in the math classroom. As students see themselves as capable learners, they will demonstrate proficiency in their learning while observing the standards for mathematical practices PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

India White

Big Ideas Learning



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S60 will be held in Room 203 from 8:30 - 9:30

SCETV Mathematical Resources

SCETV offers a variety of resources and services to support South Carolina's mathematics educators. This workshop is an introduction to all things mathematics from SCETV Education including free, high-quality digital content, standards-based lesson plans specific to South Carolina, informative blogs, teacher recertification courses, and more. Come and learn how to incorporate these resources into your learning community! PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

Brian Day

SCETV (South Carolina Educational Television)



Session S61 will be held in Room Atrium Alcove from 8:30 - 9:30

Notice and Wonder: Transformation Graphing, 250+ Video Modular Course Using TI-84, TINspire

Obtain e-flash cards of the parent functions, transformations. Notice? Investigate transformations using composition of functions. Wonder? 250+ videos ideas are designed to effectively assist students with conceptual understanding of transformation graphing. 15 parent functions. 6 compositions. Get new and unique strategies. All materials supplied. 6th - 8th, 9th - 12th, College

Tom Reardon

Fitch High School / Youngstown State University



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S62 will be held in Room 100B from 9:45 - 10:45

Promethean Escape Room Experience

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Ernie Faulkenberry

Promethean



Session S63 will be held in Room 102B from 9:45 - 10:45

Strength in Numbers: How Well Do Different Body Measurements Predict Strength?

Can we predict how much weight someone can curl or how many pushups someone can do? We will use regression to explore the relationship between measures of strength and body measurements, such as height and weight. This activity will consider both proportional and linear models, using data from current students. 6th - 8th, 9th - 12th, College

Laura Kate Lane

TL Hanna High School



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S64 will be held in Room 103 from 9:45 - 10:45

Coaching Math Teachers on the Benefits of Using the Mathematical Practices

Coaching Math Teachers on the Benefits of Using the Mathematical Practices in the EXERCISING world, the following terms are as described as below: Strength—its purpose is to build muscle Cardio— get the heart pumping Flexibility—decreases risks of injuries, increases blood supply and nutrients to joints, reduces muscular tension and so on. In the EDUCATION world, the following terms are as described as below: Strength— focuses on an individual's educational performance, considering what the individual can accomplish. Cardio— focuses on getting one motivated to carry out the plan of action. Flexibility—is where creativity and problem solving begins and allows the person to look at other alternatives and possibilities. Coaching Math Teachers on the Benefits of Using the Mathematical Practices will help math teachers master how to implement the mathematical practices within math instruction. What impact might the use of mathematical practices have on student achievement? This session will help teachers understand the following benefits of using the mathematical practices: Provide opportunities to learn Shifts classroom practices Provides a focus zone- a road map for goal setting Mathematics skills and concepts change from grade to grade but these practices do not. The practices are not grade-specific. They are nurtured and developed at every grade level. This summary is only a snapshot of what will be discussed in this session. PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

Edwina D. Perrin & Vanessa Briggs

Spartanburg District Seven



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S65 will be held in Room 104A from 9:45 - 10:45

Strengthen Student Understanding Through Productive Struggle

Students should have a deep conceptual understanding of math skills starting at an early age. In this session, learn how one elementary school worked as a vertical team K-5 to strengthen their math understanding, let go of "control", and allow the students to do the heavy lifting in their classroom. Learn how to implement productive struggle in your classroom to enrich student discourse and problem-solving skills. Walk away with math tasks that can be facilitated in the K-5 classroom immediately. PreK - 2nd, 3rd - 5th

Julie Carwile & Shannon Stone

Two Chicks & Arithmetic



Session S66 will be held in Room 104B from 9:45 - 10:45

I Got to Do This with My Kids! 25 Clever Activities on the TI-84, Conceptual Understanding

Reimagine. The 25 activities are "outside of the box" - designed to effectively use graphing technology to assist students with conceptual understanding of big ideas - great teaching and learning ideas. Website contains: student and teacher PDFs, and a 2-minute video of each activity. Algebra 1 to Calculus. This is a completely hands-on session. 9th - 12th, College

Tom Reardon

Fitch High School / Youngstown State University



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S67 will be held in Room 202B from 9:45 - 10:30

Fight Like a Girl: Addressing Disparities in Mathematics for Girls

From the twentieth century perspective, to be told you “fight like a girl” was an ultimate insult. Although this phrase was commonly assigned to physical prowess, it inevitably translated to many areas of scholarly capabilities as well. A wealth of data exists to support no gender differences in capacity for understanding and applying math concepts in K-12 students. Self-confidence is an important variable and predictor for continuity in advanced-level high school courses, college majors with math as a core requisite, and math-centered career choices. Differential achievements in mathematics by boys and girls are likely to begin forming early and are also more likely to be successfully modified early in life. This session addresses some approaches to best prepare female middle school students to “fight like a girl” with confidence. 6th - 12th

Jamelle H. Ellis, Ph.D., Founder and CEO of Empowerment Strategies Group, LLC



Session S68 will be held in Room Atrium Alcove from 9:45 - 10:00

Count Me In!

Children need to count early and often in order to understand and manipulate quantities. To improve their number sense, children need an abundance of counting experiences, such as counting collections and choral counting. We’ll explore ways to make counting more FUNdamental across the elementary grades. PreK - 2nd, 3rd - 5th

Tami Broomall

Spartanburg District 6



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S69 will be held in Room 100B from 11:00-12:00

Promethean Escape Room Experience

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Ernie Faulkenberry

Promethean



Session S70 will be held in Room 102B from 11:00-12:00

The Math and Literacy Connection

Children's literature provides opportunities for students to engage in math through the context of a story. Learning is authentic by way of purposeful connection to the story. During this session, teachers will learn how to build math skills and students' mathematical disposition through children's literature. Teachers will discover how their love of reading can be used as a springboard for developing mathematical concepts for their students by using children's books. After the session, teachers will be able to find connections to math in children's literature either through the character, plot, setting, or illustrations. PreK - 2nd

Dawn Jacobs

Lexington School District One



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S71 will be held in Room 103 from 11:00-12:00

Flexibility with Numbers: The Building Blocks for Subtraction Success

This session will help teachers think "flexibly" about helping students attend to precision and use manipulatives when composing and decomposing numbers. This will lead to building a "healthy" knowledge of how to subtract with regrouping without resorting to rhymes or tricks! This hands-on session will give you activities that you can take back to your classroom tomorrow and try with your students to help build their strength and knowledge in how to think flexibly about numbers! Come and join the "flexible fun" as we play games to support our SC Standards! PreK - 2nd, 3rd - 5th

Lisa Ross

Lexington School District One



Session S72 will be held in Room 104A from 11:00-12:00

Unit Trackers for Building Student Agency

Tired of feeling like you're the only one in the room who is working? Unit trackers are a great way to provide students with the support they need to take control of their own learning. See how unit trackers can help you facilitate differentiated, blended instruction in a way that gives students the independence and scaffolding they need! Unit tracker templates and samples will be provided to attendees. 3rd - 5th, 6th - 8th, 9th - 12th

Jill Woodruff

White Knoll High School, Lexington District 1



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S73 will be held in Room 104B from 11:00-12:00

Experience the Power of Math Centers to Strengthen Student Understanding

Small group instruction paired with math centers is a part of a balanced math program. Come experience how differentiated, hands-on activities that use manipulatives will help students deepen their understanding of key math concepts with hand2mind's Differentiated Math Centers and Daily Math Fluency Centers. Participants will experience a variety of center activities and learn new strategies to make center learning meaningful for students and realistic for the teacher. PreK - 2nd, 3rd - 5th

Angie Meredith

hand2mind

Session S74 will be held in Room 201 from 11:00-12:00

"Where do I use this?" An Engineer Answers

With the help of practical engineering examples, we will accouter the math teachers with an answer to this frequent question that they encounter in their classrooms. 6th - 8th, 9th - 12th, College

Dr. Satya "Sam" Narimetla

Tennessee Tech University



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S75 will be held in Room 202B from 11:00-12:00

EdVenture's Mathematical Thinking and Expression Project

EdVenture is working with 4K teacher-researchers dedicated to addressing the performance of students in the domain mathematical thinking and expression. With less than three out of ten children demonstrating readiness for kindergarten in this domain, teachers and schools are wanting solutions and greater support to make an impact in this area. Small group discussion, along with time for questions and responses, will follow this powerful presentation. PreK - 2nd

Tyshica McConner

Education Initiatives Manager at EdVenture Children's Museum



Session S76 will be held in Room 203 from 11:00-12:00

Workshop Model on the Secondary Level

Looking for a way to create student engagement and curiosity in your classroom? Are you wondering how the workshop model looks at the secondary level? By attending this session, you will discover one district's answer to these questions, as well as how the Workshop model connects to the Mathematical Practices. Participants will also learn how to effectively implement the workshop model at the secondary level and how the workshop model can be used to differentiate instruction in order to meet the individual needs of Tier I, Tier II, and Tier III students ensuring instructional equity for all students while meeting their SEL needs. 6th - 8th, 9th - 12th

Dana Williams

Chester County School District



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S77 will be held in Room Atrium Alcove from 11:00-12:00

Putting the FUN Back into Fractions With Virtual Fraction Flowers and More!

Did you know that fraction knowledge in grade 5 can predict student success in Algebra and beyond? Can we ensure our students are learning fractions and also mastering the concepts; not simply memorizing? Learn how simulations can teach fractions to ease math anxiety, put fun into learning, and how they can place concepts into long term memory! 3rd - 5th

Jenna Mercury

Explore Learning



Session S78 will be held in Room 102B from 12:15 - 1:15

OMG! Graphic Organizers in Elementary Math Classroom

Come make an OMG student reference containing graphic organizers with steps, examples, and vocabulary for key concepts of an entire year's curriculum. This creative guide will transform your classroom and help students become self-sufficient learners! You must see it to believe it! All attendees will learn about the use of graphic organizers in the math classroom and will make a unique organizer for them. Each participant will also make three graphic organizers specific to the grade taught (grades 2 - ALG2). This is a program I developed in my classroom and I will share my school's success with standardized test scores after implementing it school wide! The OMG gives the student ownership of his or her math! The student builds, it, the student keeps it, and the student uses it. They own the math! 7th - 12th

Rhonda Davis

OMG



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S79 will be held in Room 103 from 12:15 - 1:15

Experience 20 Years of Research-Based Math Games as a Student

Despite the fact that math education relies on language-heavy methods of teaching, research shows that a visual approach to mathematical concepts can be highly effective. With new technology, we can go beyond a purely visual approach by showcasing ideas using spatial-temporal methods that provide an even deeper level of impact. Come experience what math can be when it's designed for the way students' brains learn. PreK - 2nd, 3rd - 5th, 6th - 8th

Daniel Tracy

MIND Research Institute



Session S80 will be held in Room 104A from 12:15 - 1:15

Let's Get Physical with Word Problems

Students are not always exposed to the various word problem scenarios in the appendices of the Common Core Standards. In this session, participants will learn how to orchestrate problem-solving experiences that develop the thinking skills and dispositions of a problem solver. Using physical models, we will explore ways to develop problem solving routines and strategies that enable students to attend to precision. Learn how to create opportunities for your students to persevere in finding solutions to word problems. PreK - 2nd, 3rd - 5th

Shannon Stone & Julie Carwile

Two Chicks and Arithmetic



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S81 will be held in Room 104B from 12:15 - 1:15

10 Days to Multiplication Mastery

Learn Multiplication tables in 10 days with fun methods of practice and understanding the power of commutative properties. 3rd - 5th

Rich Stuart

Learning Wrap-ups



Session S82 will be held in Room 201 from 12:15 - 1:15

Building Number Routines with Numberblocks

Experience how hand2mind's Number Routines with Numberblocks program pairs with the famous Numberblocks hit TV series to build enriching lessons around 7 different number routines. Geared for preK-2, these 10 - 15 minute lessons deepen students conceptual understanding of complex math topics. PreK - 2nd

Pam Caffery

hand2mind



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S83 will be held in Room 202B from 12:15 - 1:15

STEAM + Medical = Fun

Come learn about STEAMM MedPro 21, a K-12 continuum of schools with premier education and happy learners within Richland Two School District. Our four schools are using an integrated approach with STEAMM (Science, Technology, Engineering, Arts, Math, Medical) and AVID (Advancement Via Individual Determination) to ensure that learning is authentic and FUN! This session will showcase how we were able to sustain our magnet theme throughout the pandemic with a focused social media campaign and the creation of a resource website that brought hands-on learning into the homes of our families.
4th - 12th

Teah Smith, M.A.T, M.S.

Carolina Alliance for Technology Program Director and Core Engineering Instructor

Ridge View High School



Session S84 will be held in Room 203 from 12:15 - 1:15

Student Centered Teaching & Learning in the Math Classroom

Explore the Math resources from Heinemann that are written by educators, for educators, to support student-centered teaching and learning. Our authors start with a curiosity about students' thinking and numerical reasoning. By learning about what students understand, teachers can be responsive to their individual needs. The goal of our resources is to elevate teacher expertise, increase their comfort and confidence with math, and provide support for helping students make sense of the mathematics they're learning. This session will discuss various professional books and classroom resources available to transform your students' math experience. PreK - 2nd, 3rd - 5th, 6th - 8th

Michelle Pancorvo

Heinemann

Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S85 will be held in Room Atrium Alcove from 12:15 - 1:15

BAZINGA!!!!

Get your students moving as you play the game Bazinga as a math review. 6th - 8th

Marsha Neal

Daniel Island School



Session S86 will be held in Room 102B from 1:30 - 2:30

Incorporating Active Learning into the Math Classroom

Most calculus books are a printed form of a lecture, and most calculus teachers teach the way they have been taught from such books. Deconstruct Journals emphasize what is missing: the active learning process. Active learning takes place through a variety of activities through the interactive journal. Most of these activities are short and can easily be integrated into a typical class period. Calculus I activities will be shared during this session. 9th - 12th, College

Kamryn Schemine, Alex Bahan, Kathryn Pedings-Behling, & Amy Langville

College of Charleston



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S87 will be held in Room 103 from 1:30 - 2:30

Using ALEKS to Target Instruction, Build Student Ownership and Reflection, to Support Personalize Learning:

Participants will take a deep dive in the reliable data and reports within ALEKS to provide instructors the ability to make informed targeted instruction for all learners at all levels. This session will provide an overview of how this adaptive digital content can personalize learning and differentiate instruction and learning at all levels. Below, on, and above grade level. Easily providing the instructor with reliable data that groups students and supports the station rotation model of Blended learning. Making progress monitoring effortless by accessing real time data. How does the artificial intelligence work and why is the data so reliable? ALEKS provides real time feed-back to students that is informative and promotes student reflection and ownership of learning. Taking the heavy lift off of the instructor by providing rich reliable data that supports 1:1 student conferencing, goal setting, station rotation, and promotes student agency, motivation, relevance, and self-direction. PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th

Johnny D Miller & Jane Dennerlein

McGraw Hill



Session S88 will be held in Room 104A from 1:30 - 2:30

Let's Free Our Students' Brains of Whole-Number Bias Using the Integrated Theory of Numerical Development

What is this "theory" and how can it be applied to persevere through a fraction unit with your elementary students? Learn this and more as we uncover the truths and research behind the best strategies to understand fractions. We'll discover a fabulous new way to approach this abstract concept so our students achieve success! 3rd - 5th

Jenna Mercury

Explore Learning

Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S89 will be held in Room 104B from 1:30 - 2:30

Have Your Students Discover, Interact and Play with the Dynamic Geometry App on TI-Nspire

Have your students discover geometry properties and create arguments to demonstrate what they learn by interacting with geometric figures. Experience the geometry come to life: reflections, parallel lines, area formulas, rotations, quadrilaterals, translations, more. Use the handheld or teacher software as a demo. Get many activities. Breathtaking! 6th - 8th, 9th - 12th, College

Tom Reardon

Fitch High School / Youngstown State University



Session S90 will be held in Room 201 from 1:30 - 2:30

Area of Rectangle and Triangle of Absolute Difference

Solving Systems of Linear Equations Using area of rectangles 6th - 8th, 9th - 12th

Mario Ramon

CA Johnson High School



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S91 will be held in Room 202B from 1:30 - 2:30

Supporting and Strengthening Middle School Math Standards through The Stock Market Game

In this session teachers will learn how to “strengthen and tone” math standards in their middle level math classrooms using The Stock Market Game and Finance Challenge statewide competitions. Financial literacy and personal finance can be a tricky area of mathematics for students to fully grasp and find interest in. With statewide competitions such as SMG and FC, teachers can reinforce and support these tricky math standards in a fun and engaging way that brings in real-world knowledge. Teachers will leave feeling empowered and ready to bring these FREE resources back into their classrooms to implement right away! 6th - 8th

Ashley Seats

Meadow Glen Middle School



Session S92 will be held in Room 203 from 1:30 - 2:30

How to Put the "Productive" into the "Struggle" with STEMscopes Math

Join us in diving through the process of productive struggle. Help students face problems in math and develop grit and creative problem-solving techniques. Learn how to provide your students with opportunities to share their reasoning and celebrate the different ways of thinking. PreK - 2nd, 3rd - 5th

Suzan Morris

STEMscopes by Accelerate Learning, Houston, Tx



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session S93 will be held in Room Atrium Alcove from 1:30 - 2:30

Building Thinking Classrooms: The Extended Warm Up

We want our students to think...right? In this session, participants will engage in the first 3 practices of Building Thinking Classrooms by Peter Liljedahl. You will work through mathematical problems as you build thinking skills. Then we will collaborate on ways to take these practices immediately into our classrooms. PreK - 2nd, 3rd - 5th

Brandi Cade

Center for Inquiry (Richland 2)



Session N25 will be held in Room 101A from 8:30 - 10:00

ONE Strategy to Engage All Learners that Gets Results Fast

What makes a strong assessment? Rigorous questions aligned to the standards! Attend this session to learn how to Level-Up your questions to more fully align to the standards, engage students, and yield higher outcomes on all assessments. 6th - 12th

Sherri Abel

Derivita



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N26 will be held in Room 101B from 8:30 - 10:00

Using TI-Nspire™ CX Technology in Algebra to Build Conceptual Understanding

Join us as we explore how to use the TI-Nspire family for more than computation & basic graphing. From systems of equations to families of functions (linear, quadratic, trigonometric, polynomial, rational, ...), we will go beyond the basics as we use images, graph databases, APPS, and programs to support student understanding and concept development. TI Tech: TI-Nspire™ CX II 6th - 12th

Ruth Casey

Texas Instruments



Session N27 will be held in Room 102A from 8:30 - 10:00

Math Game Fundamentals - Games with Regular Dice

Who knew regular spotted dice could be used to teach and practice so much math! Come prepared to play our favorites for working on basic fact fluency, place value including decimals, multi-digit operations, order of operations, graphing, problem solving and more. The games are perfect for whole class or small group instruction, easy to differentiate so that you can reach all students in your classrooms. This workshop contains our student's favorite games, the best for building engaged practice. Handout will contain gameboards for immediate use Monday. 3rd - 5th

Lori Triplett

Box Cards and One-Eyed Jacks



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N28 will be held in Room 102C from 8:30 - 10:00

Come for you MIIT Workout and Let's Get Vertical

Our MIIT (Math Intensive Involvement Training) workout will model how we use and adapt tasks. Flex your mathematical muscles with thinking tasks on vertical surfaces. Build Mathematical Problem-Solving Strength by encouraging students to make their thinking visible. Build Students' Cardio with "Keep-Thinking" questions. Presenters will share their experiences "Building a Thinking Classroom" across the secondary curriculum. 9th - 12th

Wendy S Perlstein, Kristen Girdi, Jennifer Hudson, Meredith Chandler & Denielle Gilhuly

North Myrtle Beach High School, Horry County School District

Session N29 will be held in Room 202A from 8:30 - 10:00

Mining Mathematical Thinking

Dig into student work to make sense of learners' mathematical thinking. Identify possible strategies to move them forward. 3rd - 5th

Kenna Alewine & Margaret Lorimer

S2TEM



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N30 will be held in Room 202C from 8:30 - 10:00

Helping Struggling Students Master Mathematics

Join Valencia as she shares with teachers, effective math strategies that help under-achievers become successful in mathematics. Various techniques will be presented to assist teachers in teaching specific state standards. The standards address will include math facts, mastering the 4 operations, and exploring fractions. Teachers will explore problem-based learning and discuss how to implement vertical alignment planning. Creative ways of assessments will be demonstrated to incorporate a win-win environment for both student and teacher. 3rd - 5th

Valencia F Thornton

CRAM Academy, LLC



Session N31 will be held in Room 101A from 10:15 - 11:45

Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA!

Increase student engagement and math discourse? Check. Auto-grade open-ended questions? Check. 65,000+ math questions with personalized feedback and complete solutions. Check. Live, comprehensive, robust standards-based reporting? Check. Plus, there's so much more! Come see what Derivita's one-of-a-kind math courseware and assessment platform, powered by a proprietary Computer Algebra System, is all about. Be prepared to participate and to have fun! 6th - 12th

Delvin Daley & Charles Ward

Derivita



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N32 will be held in Room 101B from 10:15 - 11:45

If You Have Questions, We Have Answers!

By using the TI-Nspire™ CX Premium Teacher Software, you can create different types of technology enhanced questions to help your students practice and thus be prepared for the Algebra 1 EOC. In this session you will learn how to use templates to create multi-select, self-check, drop points, numerical input, and text match questions. Additionally, you will learn how to insert a picture into a question. TI Tech: TI-Nspire™ CX II 6th - 12th

Sherri Abel

Texas Instruments



Session N33 will be held in Room 102A from 10:15 - 11:45

Technology Potpourri

Technology is here to stay! From totally virtual classrooms and dual modality teaching, to finding and discovering new technologies that enhance instruction, we would like to add a few additional resources to the technology toolboxes of math educators, that are sure to ramp up, enhance and reinforce the teaching of the standards. In this interactive session, participants will be introduced to the wonders of some new as well as some staple technologies that can be used to engage students and enhance the conceptual understanding of the standards. This session will be conducted by students from the University of South Carolina enrolled in the MT program, in Secondary Mathematics Education. 6th - 8th, 9th - 12th

DeVonne Risher Smalls, Megan Century, Jenna Gallichio, Bobby Gunshefski & Melissa King

The University of South Carolina



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N34 will be held in Room 102C from 10:15 - 11:45

Let Students Do the Heavy Lifting: High-Impact Routines to Develop Strong Mathematicians

Looking to engage, motivate, and prepare students for mathematical success now and in the future but exhausted from combing through resource after resource trying to find the just-right strategy? Join us to explore a variety of high-impact, low-prep math routines that encourage students to do the heavy lifting and build their mathematical muscles. PreK - 2nd, 3rd - 5th, 6th - 8th

Jennifer Ledbetter & Casey Davis

Orchard Park Elementary School, Fort Mill School District



Session N35 will be held in Room 202A from 10:15 - 11:45

Taking a Chance: Probability and Statistics in the Middle Grades

In this interactive session, build your toolbox to engage students in probability and statistics through the mathematical practices and support student data literacy and sense-making with fun activities. 6th – 8th

Rhett Nettles & Margaret Lorimer

S2TEM



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

KEYNOTE SESSION

Session N36 will be held in Room 202C from 10:15 - 11:45

From Math by Memorizing to Math by Understanding

Too many times and for too long, we have seen that not every student experiences success in math. There are steps we can take to help address this. Let's examine how we can implement effective teaching practices equitably to help each and every student succeed in math. PreK - 2nd, 3rd - 5th, 6th - 8th, 9th - 12th, College

Kevin Dykema

National Council of Teachers of Mathematics



Session N37 will be held in Room 101A from 12:00 - 1:30

Talk Mathy to Me: Using Mathematical Discourse to Engage Students

implementing low floor, high ceiling tasks designed to engage all students, as well as implementing the 5 Practices for Orchestrating Mathematical Discussions (Smith & Stein). You will leave armed to deploy these strategies the very next day. Come prepared to participate! 6th - 12th

Sherri Abel

Derivita



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N38 will be held in Room 101B from 12:00-1:30

**Bring Math Alive - Collect and Analyze Data Using the TI-84 Plus CE
and TI-Nspire™ CX II**

Understanding data is important in many areas of life and students are much more engaged when they collect their own data. We will collect data using a temperature probe and analyze this data to determine a line of best fit, discuss correlation, and predict behavior. We will also explore how a CBR2 motion detector can be used to help students build a conceptual understanding of distance and time, including the connection to rate of change, speed, and velocity. TI Tech: 84CE, TI-Nspire™ CX II, CBR2, temp probe 6th - 12th

Ruth Casey

Texas Instruments



Session N39 will be held in Room 102A from 12:00 - 1:30

**Nimble with Numbers: Flexing Mathematical Muscle with Number
Talks**

Number Talks are short routines that engage students in developing computational fluency. Children are asked to use mathematics that makes sense to them to solve problems, which develops a deep understanding of number and number relationships. In this session you will take part in Number Talks, and we will share resources to help you develop Number Talks for your own students.

PreK - 2nd

Catharina Middleton & Eugenia Hopper

Coastal Carolina University



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N40 will be held in Room 102C from 12:00 - 1:30

CARDIO, Meeting Every Unique Learner at Their Just Right Challenge Level and Taking the Immense Lift off Our Educators;

In this engaging session, participants will take away teaching and learning strategies, while working with a variety of research-based solutions that provide efficient, low lift targeted instruction, and reliable data driven individualized learning plans. These take away strategies and solutions provide accurate standard based delivery, aligned depth of knowledge, deeper learning, and acceleration for all of our unique learners. Accelerating literacy growth for every student through differentiated relevant content and instruction. Together we can meet the needs of all learners by providing the time and space for teaching and learning strategies that are research, and efficacy driven. 3rd - 5th, 6th - 8th, 9th - 12th

Johnny D Miller

McGraw Hill



Session N41 will be held in Room 202A from 12:00 - 1:30

Questions for Mathematical Thinking

Often a student's answer to a math task doesn't fully represent the extent of their mathematical thinking. In this interactive session, build your flexibility with questioning skills to assess what students understand about mathematics. K-5th

Terrie Rathburn & Kenna Alewine

S2TEM



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N42 will be held in Room 202C from 12:00 - 1:30

What is DreamBox Learning?

Are you eager to learn more about what DreamBox Learning Math is and what it can offer for your learners? Are you already using DreamBox Learning Math and have questions regarding Implementation and Data? Attend this session to learn more about this Intelligent Adaptive Learning technology, where we will help you accelerate learning, build confidence, and support your learners. K – 8th

Lindsay Boger

DreamBox Learning



Session N43 will be held in Room 101A from 1:45-3:15

Need ONE Platform that Checks ALL the Boxes and Then Some? You Got It! DERIVITA!

Increase student engagement and math discourse? Check. Auto-grade open-ended questions? Check. 65,000+ math questions with personalized feedback and complete solutions. Check. Live, comprehensive, robust standards-based reporting? Check. Plus, there's so much more! Come see what Derivita's one-of-a-kind math courseware and assessment platform, powered by a proprietary Computer Algebra System, is all about. Be prepared to participate and to have fun! 6th - 12th

Delvin Daley & Sherri Abel

Derivita



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N44 will be held in Room 101B from 1:45-3:15

Texas Instruments Showroom

Stop by the Texas Instruments Showroom to see what's new! Update your calculators, ask questions and more. Take a break, chat, come play and pick up some TI swag! 6th - 12th

Beth Smith

Texas Instruments



Session N45 will be held in Room 102A from 1:45 - 3:15

Using Math Manipulatives as Tools of Proof

Math manipulatives are often used as 'answer getting' tools. For example, when students are asked to show equivalent amounts to $\frac{3}{4}$ using fraction bars, many students just match and see what fits. Are they thinking and developing a deep conceptual understanding of equivalence or are they just matching? This, hands-on session focuses on how to use readily available math manipulatives and materials in a way that fosters reasoning, justification, and flexible thinking. You will leave this session with a deeper understanding of how students at the upper elementary and middle school levels can model their thinking and understanding using math manipulatives. 3rd - 5th, 6th - 8th

Christine King & Yolanda Fleming

CKing Education



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

Session N46 will be held in Room 102C from 1:45-3:15

Nimble with Numbers: Flexing Mathematical Muscle with Number Talks

Number Talks are short routines that engage students in developing computational fluency. Children are asked to use mathematics that makes sense to them to solve problems, which develops a deep understanding of number and number relationships. In this session you will take part in Number Talks, and we will share resources to help you develop Number Talks for your own students.

PreK - 2nd

Eugenia Hopper & Catharina Middleton

Coastal Carolina University



Session N47 will be held in Room 202A from 1:45-3:15

Early Childhood Math Readiness

Explore the big idea of math identity and its impact on supporting the development of numeracy and mathematical thinking for primary learners. K-2nd

Kenna Alewine & Margaret Lorimer

S2TEM



Friday November 18, 2022

Healthy Math: Teaching with Cardio, Strength, and Flexibility Using the Mathematical Practices

KEYNOTE SESSION

Session N48 will be held in Room 202C from 1:45 - 3:15

Regaining Your Teaching Stamina to Stay Mathematically Fit!

The past few years have knocked the wind out of all educators. But what are educators doing to stay mathematically fit. Strategies and tips shared will allow educators the opportunity to 1) reflect on the lessons learned from the past few years, 2) learn ways to give students a positive learning experience with mathematics education, 3) personalize learning in classroom and 4) shift their perspective to ensure that every student is successful in the years ahead. All participants will leave energized, empowered, and equipped to stay mathematically fit in the years ahead. General

Bernard Frost

Executive Director of Curriculum and Instruction for Spartanburg School District Seven.

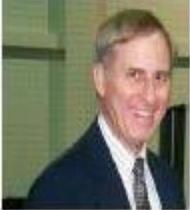




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2021 – 2022

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2022 SCCTM Fall Conference Planning Committee Chairs



| | |
|------------------------------------|--|
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| Student Pages: | Stephen Bismarck |



Future Conference Planning Dates

NCTM 2023 Meeting and Exposition

October 25 – 28, 2023 Washington, DC

SCCTM 2023 Conference & 47th Annual Business Meeting

November 16 – 17, 2023 Greenville, S.C.

NCTM 2023 Virtual Conference

Spring 2023

SCCTM 2024 Conference & 48th Annual Business Meeting

November 21 – 22, 2024 Columbia, SC

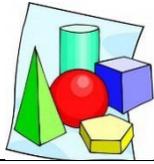
SCCTM 2025 Conference & 49th Annual Business Meeting

TBA

SCCTM 2026 Conference & 50th Annual Business Meeting

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hand2mind

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Learning Wrap-ups, Inc.

Magma Math

Math Nation/ALI

McGraw-Hill Education

National Geographic Learning/Cengage

National Council of Teachers of Mathematics

PAEMST (Presidential Awards for Excellence in Math & Science Teaching)

PSTA (Palmetto State Teachers Association)

Savvas Learning Company

South Carolina Coalition for Math & Science

SCCTM (South Carolina Council of Teachers of Mathematics)

SCETV (South Carolina Educational Television)

STEMscopes Math

Texas Instruments, Inc.

The South Carolina Education Association (SCEA)

University of South Carolina College of Education

South Carolina Council of Teachers of Mathematics Anti-Harassment Policy

The South Carolina Council of Teachers of Mathematics (SCCTM) strives to provide a safe and welcoming conference and meeting environment, free from bias and intimidation for all members and participants. SCCTM has a zero-tolerance policy toward discrimination and all forms of harassment, including but not limited to sexual harassment. No form of discriminatory or harassing conduct by or towards any member, staff, speaker, attendee, vendor, volunteer or other person at SCCTM meetings, conferences, or workshops will be tolerated. SCCTM is committed to enforcing its policy at all levels within the council. Anyone who engages in prohibited discrimination or harassment will be subject to discipline, including warning the offender, up to and including expulsion from current and/or future conferences, meetings, or workshops and revocation of membership in the math council. No refunds will be granted to any attendee expelled from an SCCTM Conference, meeting, or workshop due to violations of this policy. Instances of harassment should be brought to the attention of the SCCTM Executive Director and/or SCCTM President, who will then meet and consult with other executive officers regarding a course of action. If you are being harassed, witness harassment, or have any other concerns, please contact a member of SCCTM Board immediately by visiting the registration desk or the headquarters room at the conference.





SCCTM CONFERENCE CANCELLATION/REFUND POLICY

All SCCTM conference cancellations and requests for refunds must be made in writing as indicated below. Requests must be sent to the conference registrar/director. Requests including name, email address, reason for refund, details about original form of payment, and where to tender the refund need to be submitted to the SCCTM registrar. Telephone or email requests not including a completed/signed refund form will not be honored.

- **100% Refunds – With More than 30 Day- Notice:** To receive a 100% refund, SCCTM must receive written requests more than 30 days prior to the first day of the conference.
- **50% Refunds – With 15 to 30 Days-Notice:** Requests for refunds SCCTM receives within 15 to 30 days of the start of the conference, will be subject to a 50% refund.
- **No Refunds – With 14 or Fewer Days-Notice:** Requests for refunds SCCTM receives with 14 or fewer days-notice, prior to the start of the conference will not be eligible for a refund.
- **Emergency Illness or Death of Registrant or Immediate Family Member:** Refunds may be granted after a deadline if an attendee is unable to attend the conference due to a family death, illness, or other extraordinary circumstance. In such a circumstance, the SCCTM director must be contacted by email or letter that includes documentation.
- **Substitution Policy:** Registrants may send a substitute in their place in lieu of requesting a refund. Contact the SCCTM registrar by email in the case of a substitute attendee. In order to receive the member conference rate, the substitute must be a current SCCTM member or join SCCTM.
- **Returned Check Policy:** If any checks are returned because of insufficient funds, SCCTM will charge a \$25 fee. Registrants will also be required to pay the amount SCCTM is charged by the financial institution that returned the check. SCCTM reserves the right to refuse to honor future checks submitted by violators.
- **Membership Payment Refund Policy:** Membership payments cannot be refunded unless an overpayment was made.
- **Authors' Luncheon Payment Refund Policy:** Authors' Luncheon payments cannot be refunded unless an overpayment was made. (N/A for 2022 conference.)

SCCTM will refund conference fees as soon as possible after the conference has concluded.

SCCTM c/o Cindy Parker, Executive Director

Conference Refund Request

315 60th Ave N, North Myrtle Beach, SC
29582

director@scctmconference.org

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But First, let me take a #MathSelfie

Showed my work.

Explained my answers.

Lots of math vocabulary used.

Found multiple solutions.

I persevered through the problems.

Eliminated careless errors.

DOOR PRIZES

You don't want to miss out on the fabulous door prizes given away at the SCCTM Conference. Please thank Erica Aiken for working with our vendors and other donors to collect some fantastic prizes.

Here are the places and ways to win!

- Thursday after the Business Meeting- Awards Ceremony in 202C. Members, be sure to drop in your door prize ticket that came with your name badge as you enter the meeting room. Your membership number must be on your ticket and you must be present to win.
- Thursday and Friday in Exhibit Hall –Various vendors will have drawings for prizes each day.
- Friday at the end of the final sessions. You will receive SCCTM door prize tickets at the end of the day sessions on Friday. You must be present to win.



Dear SCCTM Members and South Carolina Mathematics Educators,



On behalf of the 2022 SCCTM Conference Planning Committee, I want to welcome you to the 46th annual South Carolina Council of Teachers of Mathematics Annual Business Meeting and Conference being held this year in Greenville, South Carolina. The conference team has worked very hard to build a program that highlights diverse opportunities for this year's conference with a full selection of more than 150 sessions.

Greenville, South Carolina is the place to be November 17– 18, 2022 for inspired mathematics professional learning and collaboration! Our planning committee has assembled a magnificent variety of sessions and opportunities focused on “**Healthy Math.**” Just as NCTM has been encouraging us for decades to help students make connections between mathematical topics, connections between mathematics and other disciplines, and connections between mathematics and their everyday lives, the SCCTM Conference Planning Committee encourages you to make connections with the many professionals who come together in Greenville to strengthen our community of mathematics educators in the Palmetto State, and beyond.

Keynote speakers, Andrew Tyminski, Zachary Champagne, Kevin Dykema, and Bernard Frost will all bring particular expertise in developing and enhancing Professional Development and Change by encouraging you to build your own Superpowers in Mathematics. During the conference you will discover how to improve your connections with colleagues all year long so that mathematical “**Healthy Math**” abounds across South Carolina for the ultimate benefit of our students throughout the Palmetto State.

The SCCTM Board is excited that you are attending the conference, and after communicating with so many of you by email, I look forward to being able to welcome you in person. During the conference, you will learn from others as others learn from you. The ultimate goal is to build a strong, reflective, critical, engaged community of mathematics educators who are all willing to grow as educators, across South Carolina. The SCCTM Board is excited to welcome you to Greenville, as we share our passions and commitment to the schools, students, and families we all serve. Have a wonderful time, learning, reflecting, and growing at SCCTM 2022.

Mathematically Yours,

SCCTM Executive Director



Cindy Parker, M.Ed.

South Carolina Council of Teachers of Mathematics
Executive Director

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Contact Information for Additional Questions

The South Carolina Council of Teachers of Mathematics annual conference is made available through the efforts of many volunteers, the board members, committee members, and managers. Please feel free to contact a board member or manager with your questions.

Awards Programs Information: president@scctmconference.org

Exhibitor Information: exhibits@scctmconference.org

General Information: director@scctmconference.org

Grants for Members Information: president@scctmconference.org

IT Information: itmanager@scctmconference.org

Membership Information: director@scctmconference.org

Nominations to Serve on the Board: president@scctmconference.org

Payment Information: director@scctmconference.org

Registration for the Conference: director@scctmconference.org

Scholarship Information: president@scctmconference.org

Speaker Information: director@scctmconference.org

Speaker Proposal Submissions: Proposals are due by August 10 prior to the November conference. director@scctmconference.org

Student Pages: postsecondaryvp@scctmconference.org

Volunteer: [Volunteer with SCCTM](#)

SCCTM Phone Number

(803)720-9148, Call or text.

Many thanks go out to those who assisted with the technical editing, language editing, and proofreading of the 2022 South Carolina Council of Teachers of Mathematics Conference Program. Thank you goes out to all of our volunteers, and especially to those who aren't math teachers!



Monica Golden & May Webb

