

00:14:00 Liza Bondurant: Hello from Mississippi!
00:14:02 Karen Hyers: Hello from St Paul, MN
00:14:03 Diamond Montana: Hello from Chicago!
00:14:04 Tamar Avineri: Durham, NC!
00:14:06 Jennifer Sauriol: Hello from Massachusetts!
00:14:07 Cathleen Brouillette: Hello from Vermont
00:14:11 Hana Beland: NH
00:14:16 Lauren King: Connecticut
00:14:16 Brenda Hensley: Winters, CA
00:14:16 Theo Wells: Hello from Chicago!
00:14:17 Beverly Puntin: New Hampshire!
00:14:18 Veena Senra: Hi from San Diego!
00:14:19 Kristin Johnson: Greetings from Minnesota!
00:14:21 William Burns: Maine
00:14:21 Nicole Wilders: New York
00:14:22 Heidi Strate: Hello from Phoenix, AZ ☉
00:14:22 Joshua Thurbee | he, him: Hello from Baltimore, MD
00:14:25 Isaac Shui: Hi from Ohio!
00:14:25 Jane Juten: Hello from Duluth, MN
00:14:26 Blake Eichmann: Hello from Eagan MN
00:14:26 Megan Young: Oregon
00:14:28 Kelly Ward: Hello from Deep East Texas!
00:14:29 Pia Mohsen: Greetings from Philadelphia, PA
00:14:30 Gail Anderson: Philadelphia
00:14:33 charles aiken: Hi from NC
00:14:35 Megan Heine: Hello from Ankeny, Iowa
00:14:38 Shminder Kaur: Hello everyone from Fresno, California.
00:14:42 gloria Frierson: Hello from South Carolina
00:14:42 Crist Peachey: Crist Peachey for Lancaster, PA
00:14:46 Katelyn Hayes: Hi from Dallas, TX!
00:14:51 Stefanie Biebl: Minnesota!
00:14:51 TJ Klein: Hello, from Big Rapids, MI!
00:15:06 DeAnn Huinker: Hi Everyone from Milwaukee, Wisconsin.
00:15:24 Amy Roehrig: Hello from Central Illinois
00:15:29 Brenda Huntzicker: Hello from Cashton Wisconsin
00:15:40 Jeny Dohrer: Hello from St. Paul, MN
00:15:51 Pui Ho Wilson Tsang: Hello from Santa Clara, CA.
00:15:59 Ken Krehbiel: Hello Everyone, from Washington, D.C.
00:16:06 David Barnes (he/him): Thanks for joining tonight!
00:16:25 Bryan Meyer: Hi from San Diego, CA
00:16:31 Thesla Cerrato: Hola! From Honduras
00:16:47 Kari Maryn: Hello from Pequot Lakes MN
00:17:03 Adem Ekmekci: Greetings from Houston TX!
00:17:06 Lisa Ashe: Lisa Ashe from North Carolina
00:17:15 Nicoletta Slovinski: Hi from NJ
00:17:20 Nicole Thomas: Hello from Detroit, MI
00:17:27 Joanie Funderburk: Hello from Littleton, Colorado
00:17:36 Ron Wilcox: Hi from Medford, OR
00:17:46 Mark Hooper: G'day from Dunedin, (South Island) New Zealand
00:17:56 Mino Bhatia: Hi from Westchester New York

00:18:14 Erica Jackson: Hello from Lorain, OH.
00:18:35 Lisa Ashe: Nice how this new publication coincides with the 10th anniversary of PtA!
00:19:17 Latrenda Knighten: @Lisa Ashe - YES!
00:19:28 Kelly Jones: I just joined. Will we be able to get the recording?
00:19:42 Bryan Meyer: They said it will be available tomorrow, Kelly
00:20:39 Lisa Ashe: Awesome team!
00:21:00 Megan Clementi: Fabulous team!!
00:28:41 Digna Iris Rodriguez: Because we shouldn't be teaching to be good at memorizing but to analyze the answer we get.
00:29:02 C Devon Pyper: Agreed!
00:29:18 Trena Wilkerson: Hello from, Waco, TX! My class on research in math ed is joining!
00:31:01 Donna Marie Young: Opportunity to Participate in Doctoral Research
00:31:15 Donna Marie Young: <https://www.surveymonkey.com/r/GJQRXQD>
00:31:42 Donna Marie Young: and <https://teacherqsort.netlify.app/#/>
00:32:09 Heather Blue: I seem to be having connection issues. Will the recording link be emailed later? Or can it be found on the NCTM website?
00:32:15 Donna Marie Young: If anyone here has some time to complete these two surveys, I would greatly appreciate it. It is highly relevant to this conversation.
00:32:26 Jayme Lorenz: The recording will be posted on our website
00:32:51 Jayme Lorenz: <https://www.nctm.org/online-learning/Webinars/List?status=recording>
00:33:28 David Miller: Donna, make sure you note that polling this group will lead to bias since we are more likely to answer in one direction than all math teachers.
00:33:41 Heather Blue: Thank you
00:33:53 Donna Marie Young: Yep, for sure, but I need more participants!
00:36:57 Theo Wells: skewthescript.org if you want to implement relevance tomorrow!
00:37:21 Heather Strobel: How do you do this when your district expects you to follow the purchased curriculum? I know there needs to be a change, but how? It seems like it is a ton of footwork on the teachers part...
00:38:07 Bryan Meyer: Keep an eye on 'Math that Matters' at: <https://www.math-that-matters.com/>
00:38:39 Bryan Meyer: Full units to be posted soon
00:40:52 Bryan Meyer: Kevin (and all), how do you imagine these as different from the Standards for Math Practice?
00:41:04 Bryan Meyer: The 'cross-cutting concepts,' that is
00:41:27 Jennifer Sauriol: solving equations
00:41:28 Elizabeth Speck: Inequalities
00:41:31 Donna Marie Young: Comparing linear and exponential growth.
00:41:35 Digna Iris Rodriguez: Pre-algebra: Integers and fractions
00:41:38 Joanie Funderburk: The cross-cutting concepts are content focused. The Standards for math practice are process/thinking focused.
00:41:40 Jennifer Sauriol: function transformation
00:41:40 gloria Frierson: geometry

00:41:41 Linda Ruiz Davenport: Geomtrical transformations
00:41:41 Alexandria Archer: Different ways of writing expressions
00:41:51 C Devon Pyper: Pre-Algebra, transitioning into middle
00:41:56 Jennifer Sauriol: simplifying expressions
00:41:57 Theo Wells: @Heather Strobel, I'd love to chat about how to
implement when given restrictions at the district level.
00:41:58 Debra Seidell: Definitions in geometry -- compare properties of
shapes
00:41:58 Digna Iris Rodriguez: Building the real numbers set
00:42:02 Joanie Funderburk: Love the cross-cutting concepts. They bring
coherence to the high school standards.
00:42:03 Elizabeth Speck: What does anyone think about the Eureka Math
Curriculum?
00:42:15 Linda Ruiz Davenport: Equivalent equations
00:42:57 Tessa Holm: If we do an integrated model how do you deal with
living in an area with lots of transitioning students? We have a highly mobile
population and no one in our county does integrated
00:43:02 Sabrina Taveras Oleaga: we use eureka in my school. Dom Rep. we like
it.. once you understand it.
00:43:55 Latrenda Knighten: Good question, Heather - In many of the
resources, you'll find resources and ideas on how to alter an existing task to add
modeling characteristics, include social and cultural relevance aspects without too
much heavy lifting on the part of the teacher. We also include ideas on how to pose
these new ideas to administrators to help them understand the importance of adding
the relevance and reimagining high school mathematics.
00:44:04 Laura Grant: We've been looking for cross-cutting concepts in the
math world! Hurray!
00:44:34 Heather Strobel: Thank you Latrenda!
00:45:04 Latrenda Knighten: No problem. :-)
00:46:32 Mark Kingsbury: Notice the wide variety at 9th grade too!
00:47:16 Ryia Waldern: What about intro to accounting or other CTE options?
00:47:21 David Barnes (he/him): @Bryan Meyer - the cross cutting concepts I
think are in a different plane than the mathematical practices. They are looking to
highlight connections between the mathematics content to build relationships between
how mathematics content rather than seeing each content area exists in isolation.
00:47:34 Megan Clementi: How would you differentiate QR and Stats/Data
Science in terms of course content?
00:48:30 charles aiken: Love that @david Barnes!
00:48:35 Bryan Meyer: Thanks, David.
00:50:15 Mark Kingsbury: @Megan Often a QR course focuses on numerical
literacy (proportional reasoning, working in spreadsheet, critiquing media reports).
Stats might be a subset of the content but is not the sole content
00:50:50 Theo Wells: Also, check out Data Science for Everyone! Both DS4E
also has great (free) resources.
00:51:15 Heidi Strate: I'm wondering if Data Science could become even more
targeted courses - i.e., Data Science for Decision Making (i.e., Business or
Personal Finance), vs. Data Science for Understanding the World - more Stats and
Economy/Policy related.
00:51:23 Lois Greene: I agree that we need offer our students more options
to explore and understand mathematics. We must provide students with a wide range

of learning options that will expose them to career and college. Yes, let us find ways to help our students reimagine mathematical learning.

00:53:42 Donna Marie Young: I will concur. Teaching math in a different way has revitalized me recently.

00:54:37 Miriam Garber: Analytics

00:54:39 Dianne Ward: problem solving

00:54:45 Marlene Naquin: We all need to be renewed and revitalized

00:54:47 Lois Greene: analytics

00:54:48 Jennifer Malue: Communication and Leadership

00:54:52 Kirpa Chohan: Communication

00:54:54 Samantha Stenson: leadership

00:54:55 Lois Greene: problem solving

00:54:56 Susan Hanby: Analytics

00:54:57 Elizabeth Speck: All are outcomes of Math education

00:55:01 Dana Mason: Sales

00:55:01 Lois Greene: leadership

00:55:05 Kimberly Bell: Critical thinking in all of these

00:55:06 April Mouton: Communication!!!

00:55:20 C Devon Pyper: Communication is one of the most important skills---in virtually ALL fields!

00:55:33 Megan Clementi: The ones doing the reading and the writing and the speaking and the listening in the classroom are the ones who are learning.

00:55:57 James Millikan: I've worked as a high school math teacher for nearly a decade and presented at the NCTM Conference in Chicago last month. I'm also a Math Education Trust scholarship recipient. I've studied physics through quantum mechanics and I'm currently studying applied mathematics at UC Berkeley. It's been really illuminating seeing the problem-solving and modeling curriculum at the university level after having taught precalc, statistics, and calculus. I am open to serving on a committee on developing a mathematical modeling pathway for high school students. If you would like to continue the conversation, I can be reached at millikanjames@gmail.com. I have to head to class so I'll sign off here. Kind regards, James

00:56:30 Cory Sheldahl: Can even adapt your current problems to match what students perspectives you collected at the beginning of the year

00:56:45 Cory Sheldahl: (exercises)... hehe

00:56:55 Sara Van Der Werf: You've expanded the Mathematical Practices! I'm doing a PD series on the practices and have added your expanded definitions. Love

00:57:09 Donna Marie Young: Survey links one more time.
<https://www.surveymonkey.com/r/GJQRXQD> <https://teacherqsort.netlify.app/#/>

00:57:41 C Devon Pyper: The 2nd survey needs an access code.

00:57:56 Donna Marie Young: It is "Donna"

00:58:30 Mark Kingsbury: I love the phrase "tinker productively"

00:59:18 Dianne Ward: tinkering seems to fit with the needed adaptability

00:59:21 Sara Van Der Werf: I love the term 'tinker' too. (also, hey Mark!)

01:02:28 Kevin Dykema: Glad you like these, @Sara- they are definitely built upon the SMP's and expanded!

01:03:30 Jennifer Malue: Thank you Latrenda and Kevin for your transformative, inspiring, and innovative leadership!!

01:04:32 Sara Van Der Werf: MN peeps in the chat: How can we bring a culture of 'tinkering productively' to MN's math community?

01:04:35 Bryan Meyer: NCTM, to what extent do you think standardized tests in high school mathematics are a barrier to progress like you describe? Is it discussed in this new book at all?

01:04:49 Joseph Tadros: Ditto Bryan M.

01:05:22 Kim Ellett: 100% the question that I need answered. :(

01:05:30 Sarah Moffett: @sara, I'm already adding "tinkering" to my slides for tomorrow

01:06:01 Sara Van Der Werf: Love it sara-with an h!

01:06:16 Cory Sheldahl: <==MN starting with warmups that support struggle / "tinkering" ie. 180Estimation, Visual patterns, WWYDWT, would you rather, etc

01:06:39 Jennifer Malue: Incredible resources!! I read them as a part of the AMTE book study.

01:06:54 Sara Van Der Werf: Thanks @Cory!

01:07:14 Karen Hyers: @sara and @sarah I include explorations of the concepts as a key portion of several lessons in every unit. Started calling it "tinkering" with some classes this year.

01:07:32 Mindy Strom: @Sara and @Sarah definitely need to find some tinkering opening activities

01:07:33 gloria Frierson: Good information.

01:07:34 Trena Wilkerson: For more info on tinkering check out Couco, Goldenberg, & Mark 1996 in Journal of Mathematical Behavior. May can find online? Habits of Mind....

01:07:57 gloria Frierson: I remember the 3 Rs

01:08:06 Sara Van Der Werf: @Karen and @Mindy! Love seeing so many MN leaders in this space.

01:08:09 Jennifer Sauriol: 100% Trena - we used to read that Habits of Mind every fall!

01:08:28 Jennifer Sauriol: tinker is not a new word :D

01:08:29 Jonathan Wray: @Latrenda - Like this take on rebranding 'the 3 Rs' ☺

01:08:42 Laura Grant: Yes!

01:09:23 Bryan Meyer: (A note to all of us here as math leaders: let's be sure we track any new 'pathways' for proportional enrollment! These things can easily become overenrolled with our most underserved and marginalized students)

01:09:38 Laura Grant: This is such exciting work!

01:09:43 Trena Wilkerson: Right @Bryan!

01:10:03 Sara Van Der Werf: yes! thanks @bryan

01:10:21 C Devon Pyper: Thank you!

01:10:22 Sarah Moffett: I cannot wait!

01:10:29 June Mark: Thanks Trena, here's a link to the Habits of Mind paper: <https://jwilson.coe.uga.edu/emat7050/Cuoco.HabitsOfMind.pdf>

01:10:30 Stella Alexiou: Thank you!

01:10:33 gloria Frierson: Thank you

01:10:35 Linda Ruiz Davenport: Thank you!!

01:10:35 Mary Majerus: Thank you!

01:10:35 Susan Hanby: Two years! Ahhh!

01:10:36 Tamara Fisher: Thank you :)

01:10:37 Kari Maryn: Thank you

01:10:37 Amy Roehrig: Thank you!
01:10:38 Trena Wilkerson: Thank you Latrenda and Kevin for your
leadership and presentation tonight! Important work!
01:10:39 Todd Frauenholtz: Thank you!!
01:10:43 Susan Hanby: Thank you!
01:10:43 Nora Lopez: Thank you
01:10:43 Lois Greene: Will you share these resources with us through email
01:10:44 Mindy Strom: Thank you!
01:10:44 Sara Van Der Werf: Thanks everyone.
01:10:45 Elizabeth Speck: Thank you!
01:10:50 Adem Ekmekci: Teşekkür ederim ☺
01:10:52 Rebecca Ostby: Thank you!!
01:10:52 Judy Guerra: Thank you
01:10:53 Mark Kingsbury: Thank you so much!
01:10:55 Lisa Ashe: Thanks, folks! Great session friends.
01:11:06 Jayme Lorenz: www.nctm.org/hsreimagined
www.nctm.org/institutes2024
www.nctm.org/kc2025
www.nctm.org/grants
01:11:20 June Mark: Thank you!
01:11:38 Amina Banks: Which text will be ready in 2026? I missed that
01:12:03 David Barnes (he/him): <http://www.nctm.org/hsreimagined>
01:12:08 Ashanty MEJIA: Thanks !!!
01:12:14 Kevin Dykema: @Amina- a new text for PK-12 that will have focal
points, crosscutting concepts and mathematical and statistical processes.
01:12:19 TJ Klein: Thank you!!
01:12:26 David Barnes (he/him): <http://www.nctm.org/kc2025>
01:12:31 Liza Bondurant: Thank you!
01:12:34 Alexander Torgov: Thank you!
01:12:48 David Barnes (he/him): <http://www.nctm.org/grants>
01:13:02 David Barnes (he/him): <http://www.nctm.org/institutes2024>
01:13:13 Megan Staples: Thank you!
01:13:31 Digna Iris Rodriguez: Thanks!
01:13:32 Liz Stamson: This is so exciting! Thank you.
01:13:33 Megan Clementi: Do you have the writing teams for the 2026 books in
place already?
01:13:34 Cory Sheldahl: Is the HS Math RRR available in kindle?
01:13:35 Alexandre Eden: Thank you!
01:13:38 Susan Hanby: THANK YOU!!!
01:13:44 Bryan Meyer: Thank you for continued advocacy
01:13:45 Nicoletta Slovinski: Thank you
01:13:47 Nicole Wilders: Thank you
01:13:48 Ashanty MEJIA: Thank you
01:13:49 Amina Banks: @Kevin thank you
01:13:52 Tessa Holm: How do you get the emails to send a participation
certificate
01:13:56 Raymond Johnson: There's a PDF download.
01:14:01 Rowena Motylewski: Yes, there's a download-able version!
01:14:13 Jennifer Malue: Thank you to two incredible and inspiring leaders!!
:)

01:14:14 Mike Floersch: Does NCTM have any research on middle schools?
01:14:25 Sara Van Der Werf: The pdf version is super affordable for
members
01:14:32 Mary Carlson: Thank you from Peoria Unified in Arizona
01:14:33 Amina Banks: Will there be an audiobook version?
01:14:48 Dewey Gottlieb: Thanks Kevin, Latrenda, NCTM!
01:14:51 Jeny Dohrer: Thank you.
01:14:54 April Mouton: Thank you!
01:14:55 Karen Hyers: Thank You!
01:14:55 Diamond Montana: Thank you so much! Great presentation.
01:14:57 Lois Greene: Thank you
01:14:59 Megan Clementi: Thank you so much!
01:14:59 Linda Ruiz Davenport: Great to see you all 😊
01:15:02 Joanie Funderburk: Thank you!
01:15:02 Tamara Fisher: Thank you
01:15:02 Steve Ryan: thanks
01:15:03 Susan Decker: thanks!