

Kristin Keith: Welcome everyone!! [We will be starting at 7 pm](#)

Kristin Keith: Where's everyone from?

Tracy Cullen: Reston, VA!

Zora Skelton: Episcopal School of Dallas, Lower School

Tracy Cullen: :)

Kristin Keith: Hi Tracy & Zora!!

Bob Lochel: outside of Philadelphia

Kristin Keith: Hi Bob!

David Barnes: Leesburg, VA

Kristin Keith: Welcome Dave!

David Barnes: Hi Kristin!

Fran Tishkevich: Cape Cod

Cecil Morris: Hello everyone from South Prince George, VA

Fredric Borne-Dumont: New Haven CT

Jennifer Rho: Richmond, VA

Karen Mitchell: Laconia NH (Lakes Region)

Deb Bulin: Hebron, Nebraska

Linda Saeta: Linda Saeta Mostly claremont CA although spending the year in Massachussets.

Stacie Kyhn: Phoenix Arizona Area.

John Christiansen: New York

Jacque Duginske: Illinois

Brittany Alex: Los Angeles

Jennie Wadsworth: Hi Guys - Jennie from LA here :)

Linda Saeta: Hi Bob Lochel-someone I recognize!

Tracy Cullen: Be sure to use #NCTMLive on Twitter!

Denise Green: Corral de Tierra (Monterey County), California

Bob Lochel: hi Linda!

Tanya Larochelle: NH

April Pforts: Iowa

April Taylor: Idaho

Tracy Cullen: If you're not already, follow NCTM President Matt Larson on Twitter at @mlarson\_math - he loves collaborating with members on Twitter!

April Pforts: Looking forward to seeing Matt at ASSM in San Antonio!

Fran Tishkevich: but they AREN'T ready for college

Annie Fetter: Annie (@MFAnnie) from the Math Forum (now part of NCTM), joining from suburban Philly.

Tracy Cullen: Hi Annie!

Annie Fetter: Hey Tracy.

Amparo Moreno: hi everyone

Tracy Cullen: Want to learn more about TIMSS? Here's an NCTM news release about it all - <http://www.nctm.org/News-and-Calendar/News/NCTM-News-Releases/TIMSS-Results-Show-Continued-Improvement-in-Math-for-U S -Fourth--and-Eighth-Graders/>

Tracy Cullen: And here's a brief write up about PISA - <http://www.nctm.org/News-and-Calendar/News/NCTM-News-Releases/PISA-Results-Highlight-Need-for-Renewed-Focus-on-Access,-Equity-and-High-School-Mathematics-Education/>

Randy Goswick: joining from Houston, TX

April Pforts: Whoop Whoop we will take progress

Tracy Cullen: Lastly, here's NCTM's statement about NAEP results - <http://www.nctm.org/News-and-Calendar/News/NCTM-News-Releases/NAEP-Scores-Reflect-Stagnant-Pattern-in-Math-in-12th-Grade/>

Tracy Cullen: Check out all of these statements and be sure to share your reflects on social media: #NCTMLive

April Pforts: Love this forum. I do these in my state live and record them. Love them!!!

Linda Gojak: joining from cold Cleveland Ohio

Annie Fetter: And if we make enough progress, the media will get better at understanding and reporting the results! That will be a true measure of success.

Tracy Cullen: Exactly, Annie!

Doranne Lacayo: Georgetown , TX

April Pforts: Annie Fetter - you make me laugh!

Annie Fetter: Can't have humor without truth, April!

April Pforts: Who all will be at ASSM who is on now?

April Pforts: Who is going to NCTM?

Bob Lochel: I will be in San Antonio. Look forward to escaping the snow

Linda Gojak: Should NAEP be more aligned with CC standards?

Annie Fetter: My colleague Max and I will be speaking at ASSM on Monday morning. We'll also be in San Antonio for both NCSM and NCTM. Hope to see many of you there.

April Pforts: I will see you there Annie! Then I leave on Monday, budget cuts, :(

Tracy Cullen: Sounds like you'll be very busy, Annie! We appreciate all the math fun that the Math Forum has in store!

April Pforts: I think if they can do the CCSSM or closely aligned then they can do NAEP

Annie Fetter: We'll be busy for sure, Tracy, but we love seeing all our math buds in person, and providing folks with learning opportunities small and large.

Linda Gojak: If NAEP is not aligned with CC and grade levels where content and concepts are different, I am not sure that students will perform better on NAEP

Tara Metcalfe: That decline of geometry in 4th grade really takes a toll in high school when geometric shapes can't be understood anymore... leading to spending time reteach when needing to teach increasing and decreasing volume...

Annie Fetter: The lack of alignment makes it even more important that we are teaching problem solving – then specific content becomes a little less critical.

Fran Tishkevich: If they haven't had an opportunity to learn something, problem solving skills won't help most

Annie Fetter: They won't solve the problem, Fran, but will give kids a chance to do some good thinking

and reflect what understanding they do have.

Linda Gojak: I do think that problem solving strategies and opportunities to apply understandings to a variety of contexts (rich tasks) may be helpful

Fran Tishkevich: Good point, Annie

Linda Gojak: Are these slides going to be available following the webinar?

Kristin Keith: a recording will be available Linda

April Pforts: Hope you all can join us at the TC tonight Our #MTMSchat is tonight at 9 pm. You can read our topic here: <http://ow.ly/FGF5309z6bx>

April Pforts: 9pm EST

Karen Mitchell: by "across all classrooms", do we assume all math classrooms? or all disciplines in all grade levels?

Linda Gojak: While progress is slow, I am seeing positive change with the elementary teachers with whom I have been working. Good materials are really helpful

Tara Metcalfe: I would say all grade levels and disciplines

April Pforts: So EXITED for Taking Actions!!!

Tracy Cullen: Less than a month until San Antonio, can't wait!

Karen Mitchell: book reference URL?

April Pforts: Peg, Steve, and DeAnne will be in Iowa in June for PtA

April Pforts: Taking Actions: Elem, MS, and HS

April Pforts: The Math Angels just sung from the Heavens!

Bob Lochel: very exciting - we math folk need high-quality exemplars to share and discuss with colleagues

Bob Lochel: <---meant to say HS math folk

April Pforts: I say different strategies fit inside of Practices. My family Practices having dinner every night while the strategy we use for it such as cooking, order in, go out are many

Tracy Cullen: Karen, the Taking Action series will be unveiled next month at the NCTM Annual Meeting in San Antonio. Stay tuned!

April Pforts: HS - 99.9% are Hormones - Okay, mom of a teenager here.

Linda Gojak: Tracy Will these slides be available following the webinar?

Karen Mitchell: Thank you Tracy!

Tracy Cullen:(By the way, hi!)

Linda Gojak: Thanks Tracy (and Karen...didn't see your response)

April Pforts: Please enter your twitter handle in the chat. I am trying to find you all but some of you many profiles. :)

Tara Metcalfe: The biggest problem with HS math at my school is that last year there was one level of freshman math. Engaging a class with such different levels of engagement is hard!

Linda Gojak: The other issue with HS is that the standards are not quite as clear as they are in K-8

Tracy Cullen: Tara - you're sharing so many great ideas. Be sure to continue the conversation on Twitter w/ #NCTMLive!

Tara Metcalfe: My county doesn't have Algebra, Geo, Algebra 2 either. It's math 1 math 2 and math 3... so the standards for these courses now overlap SO MUCH more with this change.

April Pforts: Matt - some people think we are cutting standards out of it? Is that happening?

Telannia Norfar: Challenge with ending tracking is the ending of honors that gives an extra boost to the GPA which looks good to college

Tara Metcalfe: honors isn't just for the "smarter" kids in my mind. They deserve the extra points because they chose to put themselves in a setting that will have a group of students that want to learn and will cause less distractions.

April Pforts: Matt just picked up on the media funny Tracy.

Vickie Inge: In many schools/school divisions tracking begins in middle or even elementary schools.

Annie Fetter: 1st grade in a "district near me".

Annie Fetter: (tracking)

April Pforts: In HS let them double up then, it is not a big deal to take Alg 1 and Geo if you have a solid K-8 understanding

Telannia Norfar: @Tara I agree and always move kids into honors. However, it is still a form of tracking right?

April Pforts: All the research says only the top 5% should even be considered.

Fran Tishkevich: I'm concerned that without tracking we are losing our brightest kids to mediocrity.

Ann Elise Record: So true to respond instructionally to the assessments we give. Not just move on without reflecting.

Tara Metcalfe: Definately. but there may be more positives to negatives i personally believe.

Fredric Borne-Dumont: At a previious district, we were intential about seasoned staff taught the same classes as novice teachers

April Pforts: I used to think that Fran but I do not anymore

Tara Metcalfe: think about AP credits

Bob Lochel: hey, Corey's good people!

Tracy Cullen: Yay for the President's Messages turning into blog format.

Tara Metcalfe: :)

Annie Fetter: Hey, I see a William Bugg...are you headmaster of TA?

Tracy Cullen: Love seeing the conversations that continue far beyond when the message is published.

Linda Gojak: I agree Tracy!

Tracy Cullen: There will be a new President's Message in fact coming out tomorrow. Stay tuned!

Bob Lochel: Corey's part-right. I'd submit that many teachers have not been exposed to "what's good". That's why outreach like this is so important

Telannia Norfar: Ongoing discussion is so huge. It is how we will all grow

Stacie Kyhn: A national mathematics curriculum would be an interesting discussion.

Ann Elise Record: I've seen too many teachers take materials from Teachers Pay Teachers...some of those products do not match the strategies we are teaching, but it is what the teachers know.

Telannia Norfar: @Bob you are so right. We teach how we were taught or what we know. This is limited for a lot of teachers.

April Pforts: IF we do nothing else, can we teach construct viable arguments and critique the reasoning of others!

Tracy Cullen: Most definitely, Telannia...learning together and not in isolation is key.

Linda Gojak: For elementary teachers who have to teach 4-5 subjects each day it is extremely difficult. How do they plan for all of this? Mathematics often loses out!

Fredric Borne-Dumont: Linda why is math the one that loses out?

Adriene Marshall: Bob, which is why professional learning is so important. I agree.

Tara Metcalfe: It's the only subject that counts;

Stacie Kyhn: Linda, this is why I see so many going to math specialists.

Fran Tishkevich: Math tends to lose out because it's the teachers' least favorite subject

Ann Elise Record: Our grade 4 and 5 teachers have departmentalized since teaching all subjects to the rigor demanded for all is just too difficult.

Fredric Borne-Dumont: so should there be a math certification for elementary teachers?

Linda Gojak: I find that they plan reading and stick to the book to teach math ... mostly show and tell and drill and kill. It's all right in the text book why do they have to plan?

Fran Tishkevich: We all love math, so it's hard to comprehend when others don't

Linda Gojak: Oh Fredric, from your lips to God's ears!

Karen Mitchell: by "across all classrooms", do we assume all math classrooms? or all disciplines in all grade levels?

Linda Gojak: Thanks Matt for the seeds to keep the chat going!

April Pforts: I say different strategies fit inside of Practices. My family Practices having dinner every night while the strategy we use for it such as cooking, order in, go out are many, is this correct?

Stacie Kyhn: Community college is leaning toward pathways, which is much like tracking.

Rose Glasser: Is there an official definition or description of "Opportunities to Learn"?

Tracy Cullen: Speaking about loving math, be on the lookout for NCTM's new I <3 Math NCTM swag in San Antonio!

Tracy Cullen: [www.nctm.org/ilovemath](http://www.nctm.org/ilovemath) <3

April Pforts: Q2: so if the lowest pathway is the standard track then tracks above are okay?

Linda Gojak: I got to visit a school with mathematics "specialists" at each grade level starting with K (some taught more than 1 grade) it was AMAZING. Kids were engaged, teachers were excited .... I would love to know of more schools that do this!

Telannia Norfar: Thanks for the clarification. I thought you were referring to elimination of accelerated tracks.

Vickie Inge: Great point Matt, and also once students develop an image of themselves as a "nonmath" person it is very difficult to overcome that perception.

April Pforts: Q1: above about Practices vs strategies above

Ann Elise Record: @Linda...we have departmentalized for grades 3-5

Annie Fetter: @April, I do like "construct viable arguments etc." but think that if we don't do "make sense of problems and persevere in solving them", we might as well not bother.

Karen Mitchell: there was a quote...

Annie Fetter: @William Bugg I asked if you are headmaster at TA because I'm TA Class of 1984. (I feel like TA is secret code!)

Karen Mitchell: early on with reference to the third test?

Doranne Lacayo: If geometry and data analysis are not a focus of the CCSS, are we giving enough instruction to prepare for SAT and ACT tests for college admittance?

Linda Gojak: We also departmentalized in my school starting at grade 4 .. but may teachers taught two subjects...better than 4-5 subjects. Still would love to see primary grades think about such organization.

Fredric Borne-Dumont: it has been my experience departmentalizing at the elementary level is initiated by the teachers

Karen Mitchell :refer to slide title "What High Performing Countries Share"

April Pforts:

article <http://www.mecd.gob.es/dctm/inee/internacional/equationsreport.pdf?documentId=0901e72b821cd3f3>

Rose Glasser: Thank you! I will definitely look at that OECD report.

Linda Shumate: As a primary STEM coach I agree completely with have primary departmentalized. Too many teachers don't feel confident in their own math understanding, so only teach the text and the way they were taught.

Karen Mitchell: and we're just referring to the math results?

Karen Mitchell: thank you!

Kelli Martin: Often these feel like, because I teach in a rural area, I don't get a full message sent out or



can't easily apply the message as I am the only grade level teacher or teacher for grades 8-5.

William Bugg: @Annie, I was not a hadmaster. I was 2 years of age then!@Anie

April Pforts: Thanks Matt, I get asked about it

Tracy Cullen: If you haven't checked it out yet , be sure to peruse NCTM's Principles to Actions Professional Learning Toolkit: <http://www.nctm.org/PtAToolkit/>

William Bugg: I have lots of lag! Sorry for the typing mistakes!

April Pforts: Perfect, yes, grade level or above.

Tracy Cullen: And continue the conversation with #NCTMp2a on Twitter!

Denise Green: Many of us on this Webinar are likely aligned in our beliefs/thinking about math and math instruction/de-tracking. How might we bring along/convince some of our colleagues? (For example those who prefer tracks or want to make math an elective/optional at the high school level)

April Pforts: They need to look at the data and see the level of failure in students who engage in in high level mathematics too early

David Barnes: @Tracy -#NCTMlive on twitter?

April Pforts: They fail more than if they wait and double up in HS.

Annie Fetter: Hey @William, I guess you can just know that you have the same name as the current head of my high school (who was NOT the head when I was there!). That is worth absolutely nothing, but I like checking for Small World Possibilities whenever possible.

Tracy Cullen: Yep, Dave - that's the hashtag for continuing conversation about the webinars.

Denise Green: Thank you! Great suggestions to start shifting beliefs

Catherine Henney: Great question, Denise. Great suggestions for resources, Matt!

CHONDA LONG: <http://www.nctm.org/ptatoolkit/>

April Pforts: Thanks Dave already have the Tweetdeck open

Tracy Cullen: #NCTMp2a is anything and everything Principles to Actions related

April Pforts: Love this, this is great. I am doing an Ingnite at ASSM how I do these in Iowa

April Pforts: Matt Rocks!!!!

CHONDA LONG: Thanks Matt!

Bob Lochel: Excellent effort NCTM. I enjoy this forum and hope this concept "sticks"

Tracy Cullen: Thanks, Bob! Be sure to share with your colleagues to tune into the next one!

CHONDA LONG: Registration will be opening soon for the May President's message webinar

Annie Fetter: @Bob Lochel, I'm sure you were going to mention these tomorrow at the ATMOPAV conference.

Cecil Morris: Thank you, Matt, Kristin, and everyone!

Bob Lochel: I'll put them in our next e-news....bigger audience and can include links and info

Tracy Cullen: This has been fun tonight! Be sure to switch on over to Twitter in just about an hour:

#MTMSchat!