

00:18:44 Trena Wilkerson: Hello from Waco, TX!
00:18:56 Cindy Bryant: Greetings from Springfield, MO!
00:19:08 Emily Kavanagh: Hello from Columbia, MD
00:19:18 William Driscoll: Hi from San Francisco, about 20
00:19:18 Michael Lanstrum: Hello from Cleveland, Ohio
00:19:18 Jamie Ward: Hello from Boone, NC
00:19:27 Jorge Veloso: Hi from Angola :)
00:19:28 roya basu: Hi from NJ
00:19:29 Lorie Huff: Hello from Fayetteville, Arkansas
00:19:33 Denise Griffiths: Greetings from Wilmington, DE - 87 sessions
00:19:34 Rodney Cooper: Greetings from Killeen Texas
00:19:34 Jen Loescher: Hi from North Las Vegas, NV; 15
00:19:34 Trena Wilkerson: Remember to change to panelists and
attendees in the Chat Box. :-)
00:19:36 Patti Gawronski: Hi from Texas
00:19:37 Katherine Page: Hello from Richmond, VA
00:19:38 Lisa Galanes: Hi From IL
00:19:40 Jacqueline Hahn: Hello from AZ. This is my first session
00:19:41 Peter Omura: Hi there from Woodstock NY!
00:19:42 Vittorio Ciummo: Vittorio from Chicago
00:19:42 Justin Klinger: Hello From Suburban Chicago 40 some
00:19:45 John Sasko: Hi from Mount Vernon NY - 25th session
00:19:46 Sharon Black-MacKinnon: Greetings from New Brunswick Canada. This is
the 90th webinar. Very grateful. Thank you so much!
00:19:47 Ma.Cecilia Cueva: Hello from Philippines.
00:19:47 MYLA DETECIO: good morning from the Philippines
00:19:49 Catherine Head: Good evening from Georgia!!
00:19:50 Renee Parsley: Hello from Delaware -- about 10 or 12 sessions.
00:19:51 Tanya Landry: Hi from Baton Rouge! I appreciate every one of the
so many I've attended.
00:19:52 Donna Misciagna: Hello from Tucson, AZ. About 40 sessions.
00:19:52 Linda Koval: Hello from Bealeton, VA! About 30 now.
00:19:52 Lesly Brown: Hello from Tennessee!
00:19:55 Cindy Bryant: IMPORTANT: Please set your chat to "All panelists
and attendees" so everyone can see your posts!
00:19:57 Nora Marasigan: Hello from Philippines.
00:19:59 Janice Novakowski: Hello from Vancouver BC Canada!
00:20:00 Stacey Gardner: Greenville, NC
00:20:01 Denise Smith: Manitoba, Canada
00:20:03 Noe Eugenio: Good morning from Philippines!
00:20:03 Daniel Irving: Hello from North Providence, RI! This is my 90th
session!
00:20:04 Jonathan Marcovitz: Greetings from Fort Lauderdale
00:20:05 Michael Farina: hi from the adirondacks. I've been to around 20
webinars.
00:20:05 Aisha Sharrieff: Greetings from Chicago, IL
00:20:08 Barbara Lynch: Lakewood, Ohio
00:20:09 SETH JOHN AGRUDA: Hello . from Philippines
00:20:09 Jamie Devine: Hello from WA
00:20:10 Lance Brauchla: Hello from IN!

00:20:12 Abdul Razak Othman: Hi from Malaysia
00:20:12 Dee Crescitelli: Hi from Kentucky! I think I am somewhere in
the mid-30s in numbers of sessions.
00:20:14 Shelly Jones: Connecticut here!
00:20:18 Trena Wilkerson: Welcome to your first one Jacqueline!
00:20:25 Rebecca Jackson: Hello from New York City (but my heart's in
Chicago!)

00:20:34 Andréa Chew: Hello from Spotsylvania, VA
00:20:37 Janet Turner: hello from mn
00:20:40 amanda Helgerson: Hello from Mass!
00:20:46 Ramona Hall: Hi from Charlotte, NC!
00:20:56 Catherine Cook: Hi from San Francsico
00:20:59 Kara Wamsley: Good morning from Manila, Philippines :)
00:21:05 Emerlina Binuya: Hello! I'm Emerlina from Petersburg,VA
goodevening to all.
00:21:07 jeanine colwell: Hello From Newport, North Carolina, I have
been to 60+ webinars
00:21:14 Trena Wilkerson: @Emily-I love Melborne! Welcome!
00:21:17 Penelope Christie: Hi from Maine
00:21:18 Susan Bardenhagen: Hi, NYC- I've been in VA for a long time, my
heart's in NYC, my birthplace. =)
00:21:23 Melonie Smith: Hello from Chicago
00:21:31 vincent panos: NYC Misses you
00:21:34 Dewey Gottlieb: Aloha from Hawaii!
00:21:35 Kathryn Del Prete: Hi from Long Beach, NY!!
00:21:42 Mary France Imperial: Hello from Philippines
00:21:47 LF W: Good morning from Singapore!
00:21:56 Mohamed T: Greetings from Mohamed T!!
00:22:00 David Barnes:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Sept15WebinarHandout1.pdf
00:22:00 Sharon Dawkins: Hello from Brooklyn NY
00:22:02 Chonda Long:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Sept15WebinarHandout1.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Sept15WebinarHandout2.pdf

00:22:05 Scott Ing: Hello all from Los Angeles
00:22:06 Emily Black: @Treena it is an amazing place to live
00:22:20 Shelly Jones: Wow @Daniel 90 sessions!
00:22:25 David Barnes:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Sept15WebinarHandout2.pdf
00:22:31 eleanor ennis: hello from Salisbury, Marling
00:22:36 Trena Wilkerson: @Sharon my 90th as well! Woo Hoo!
00:22:45 eleanor ennis: Maryland.
00:22:46 Cynthia Juarbe: hello from Brooklyn
00:22:53 Pauline Oji: Hello from baltimore MD
00:22:53 David Barnes: @ Damali - I have audio.

00:22:55 Josephine Romero: Hello from Dallas.

00:23:13 Emily Kavanagh: I think I am at 86 sessions but not entirely sure

00:23:21 Trena Wilkerson: Awesome! I aim on 90th as well! Woo Hoo!

00:23:56 Susan Bardenhagen: Wow, Emily, I wonder if that's a record?

00:24:50 Emily Kavanagh: Not sure

00:24:54 David Barnes: <https://www.menti.com/> Use code: 75 00 38 9

00:25:07 Justin Klinger: relate to the "real world"

00:25:18 Chonda Long: <https://www.menti.com/> Use code: 75 00 38 9

00:25:20 David Barnes: or <https://www.menti.com/e7gas1h662>

00:25:54 Chonda Long: <https://www.menti.com/> Use code: 75 00 38 9

00:26:09 David Barnes: <https://www.menti.com/e7gas1h662>

00:26:18 vincent panos: do a problem for the students, or use pictures
graphs diagrams to show student strategies to use to simplify problem solving and
understandng

00:26:30 Cindy Bryant: IMPORTANT: Please set your chat to "All panelists
and attendees" so everyone can see your posts!

00:27:02 Mike Shaughnessy: start with a situation—not a well defined
problem at first

00:28:55 Linda Koval: Social distancing

00:29:01 vincent panos: connections

00:29:02 Mike Shaughnessy: or not

00:29:11 Emily Graff: Gaps in Mathematical learning

00:29:12 amanda Helgerson: contact tracing

00:29:14 Donna McClue: contact tracing

00:29:15 Jacqueline Colbourne: connections

00:29:19 Rodney Cooper: the new relational capacity

00:29:30 Shannon McPartland: Contact tracing

00:29:32 Emily Black: social distance and risk of contraction

00:30:11 Aisha Sharrieff: webbing interconnectedness directly and
indirectly

00:36:09 Cindy Bryant: IMPORTANT: Please set your chat to "All panelists
and attendees" so everyone will be able to see your chat posts.

00:36:37 Trena Wilkerson: Hi Dewey!

00:38:13 Mike Shaughnessy: Have to reboot close captions again...

00:41:13 Amy Lucenta: NCTM Article: Mathematical Modeling, A structured
process

00:41:14 Amy Lucenta:
https://www.nctm.org/Publications/Mathematics-Teacher/2015/Vol108/Issue6/Mathematical-Modeling_-A-Structured-Process/

00:41:34 Damali Pittman: Love the individual think time first.

00:41:35 Amy Lucenta: NCTM Article: Mathematical Modeling, A structured
processhttps://www.nctm.org/Publications/Mathematics-Teacher/2015/Vol108/Issue6/Mathematical-Modeling_-A-Structured-Process/

00:41:56 Cindy Bryant: NCTM Article: Mathematical Modeling, A structured
process
https://www.nctm.org/Publications/Mathematics-Teacher/2015/Vol108/Issue6/Mathematical-Modeling_-A-Structured-Process/

00:43:40 Debbie Hartmann: VNPS from Peter Liljedahl Nice
00:45:02 Debbie Hartmann: Do you suggest only pairs? How about 3?
00:46:14 Amy Lucenta: we like pairs for increased participation
00:47:16 Debbie Hartmann: OK. Did you use random pairs or were they self selected?
00:47:46 Amy Lucenta: We are fans of visibly random grouping - our pairs were random in the classroom except for one individual student
00:48:02 Amy Lucenta: we direct traffic and time the transition
00:48:26 Amy Lucenta: We will touch on remote designs. Google slides work as good workspace instead of VNPS/ whiteboards
00:48:36 Debbie Hartmann: The community building is facilitated for sure with random pairs/groups. Agree about the participation.
00:49:01 Emily Graff: Love this idea, too bad Covid got in the way
00:49:11 Donna McClue: Do they leave comments as they tour?
00:49:58 Catherine Cook: is the vertical part the important aspect? or can they do this in pairs sitting?
00:50:02 Amy Lucenta: In this case, they don't - they use it as a 'spy walk' to get a sense of what others think
00:50:16 Amy Lucenta: They can sit, but we LOVE the movement part of this
00:50:35 Catherine Cook: sitting before the movement part
00:50:38 Amy Lucenta:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Sept15WebinarHandout1.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Sept15WebinarHandout2.pdf
00:50:48 Emily Graff: It's like a gallery walk
00:51:10 Amy Lucenta: Yes, and silent intake for students. Always enlightening for them!
00:52:06 Emily Graff: Everything expressed or written on that paper can be a quantity as it represents something and if justified
00:52:23 Emily Graff: Backed with info
00:52:33 vincent panos: shows how many slices a person eats by poll, the surface area of a large and medium pie
00:54:07 Amy Lucenta: Ariana, yes, same routine for younger students. The task would def change
00:56:24 Amy Lucenta: Google form
https://docs.google.com/forms/d/e/1FAIpQLSdGjik-HYaoqaOpoc0jqmSuW3Kvj6T97Ndu-1n7hFEDFB2mNA/viewform?usp=sf_link
00:58:01 Mike Shaughnessy: G & A—folks were asking about how to do tours, or the pair work, virtually, thoughts?
00:59:21 Mike Shaughnessy: Also, questions about how to do it with lower grades, say 2 & 3.
00:59:47 Laura Grandau: Using the routine with formulas as models?
01:00:52 Emily Black: jamboards are good too
01:00:55 Melanie Del Grosso: Jamboard
01:01:00 Tatiana Pereyra: A virtual gallery walk
01:01:43 Carole Bamford: OneNote/Teams
01:02:18 Debbie Hartmann: We have done VNPS with primary students too. if done during normal times the white boards should be close to each other so students can see others' boards

01:03:30 Laura Grandau: Love seeing these essential strategies!

01:06:20 Emily Kavanagh: I agree that Jamboard would be good

01:07:23 Laura Grandau: I always like when folks include ReView - view again.

01:08:21 Tracey Weise: What is the difference between rephrase and reword?

01:08:40 Penny Soutar: great question

01:09:41 Penny Soutar: thank you

01:09:57 Tracey Weise: Thank you for explaining that!

01:10:02 Valerie Muller: nice distinction

01:10:11 Daniel Irving: Thank you for that clarification!

01:11:37 Grace Kelemanik: Yes, the T always provides the model.

01:12:47 Renee Parsley: Where do you want to place the most processing time in service of the learning goal? Love this planning question.

01:12:53 Debbie Hartmann: tough questions for remote learning for sure....

01:13:11 Laura Grandau: Great questions!

01:13:23 Debbie Hartmann: the link to the article only works for people who still have an account

01:14:11 Shelly Jones: Thank you

01:14:26 MYLA DETECIO: thank you

01:14:38 Debbie Hartmann: Exactly! Very much a problem solving model with tweaks. Including great strategies for student thinking and communicating.

01:15:04 Erin Cross: Love that...an unknowable answer

01:15:35 Melanie Janzen: thank you so much, Grace and Amy! I can't wait to explore this more! 😊

01:15:43 Laura Grandau: The 2013 Progressions doc on Modeling is a great connection to this work - has a great definition of modeling and examples primary through high school
http://commoncoretools.me/wp-content/uploads/2013/07/ccss_progression_modeling_2013_07_04.pdf

01:16:09 Debbie Hartmann: For me the thinking time around the context is key! What do they need to find out to solve the problem?

01:16:25 Laura Grandau: I agree Debbie!

01:16:54 Debbie Hartmann: We usually speed into problem solving. This routine slows it down.

01:17:03 Debbie Hartmann: It is metacognitive too.

01:17:16 Christina Alliance: Does it make sense to say that sometimes you are modeling with math when problem solving?

01:17:22 Christine Kido: Thank you @Laura for the shared PDF article

01:18:09 Debbie Hartmann:
<http://peterliljedahl.com/wp-content/uploads/Building-Thinking-Classrooms-Feb-14-20151.pdf>

01:18:20 Olga Kosheleva: Thank you!

01:18:23 David Barnes: NCTM also has a great book - Mathematical Modeling - Annual Perspectives in Mathematics Education 2016
<https://www.nctm.org/Store/Products/Annual-Perspectives-in-Mathematics-Education-2016--Mathematical-Modeling/>

01:18:27 Lance Brauchla: Thank you!

01:18:29 Debbie Hartmann: This is the link to Building a Thinking Classroom which is all about the VNPS.

01:18:33 Bruce Grip: Well done, Grace and Amy. Looking forward to having more conversations about modeling.

01:18:48 Laura Grandau: Very exciting!

01:18:59 Mary France Imperial: Thank you so much.

01:19:00 Christina Alliance: That's interesting Grace, they seem very similar to me (modeling with math and problem solving), as my teacher education program pushed us to teach math through problem solving, but in a way that incorporated what the work you are doing

01:19:01 ALEX QUYENVO: thank you !

01:19:04 Trena Wilkerson: Thank you Amy and Grace for an excellent presentation on modeling. I appreciate your sharing your journey developing the routine and 'modeling' it for us!

01:19:06 Cynthia Juarbe: thank you and have a good evening

01:19:07 Justin Klinger: Thank you

01:19:08 Emily Black: Thank you, this session was really inspiring.

01:19:08 Scott Ing: thank you

01:19:08 Nicole Rigelman: Thank you!!

01:19:10 Tanya Landry: Thank you!

01:19:11 Laura Grandau: Thank you!

01:19:13 Alexander Bershtein: Thank you for all the incredible info

01:19:13 Andréa Chew: Thank you!

01:19:14 Katherine House: Thank you Amy and Grace!

01:19:15 MYLA DETECIO: thank you

01:19:16 Debbie Hartmann: LOOK forward to the new book. Thanks ladies.

01:19:16 Rose Hutcherson: Thank you

01:19:16 Valerie Muller: thank you all

01:19:18 Todd Smallcanyon: Thank you

01:19:18 Ginette Peralta Suarez: Thank you!

01:19:19 Penelope Christie: Thank you

01:19:20 Daniel Irving: Thank you for taking the time to share this incredible presentation with us!

01:19:20 Emerlina Binuya: Thank you everyone, great presentation!

01:19:20 Tami LaFleur: Thank you, Amy and Grace!

01:19:23 Sharon Black-MacKinnon: Thank you so much!

01:19:24 Nora Marasigan: Thank you so much!

01:19:26 Oluwatoyin Ibiam: thank you all

01:19:29 Collette Heffner: Thank you :)

01:19:30 Rebecca Jackson: I thought you two were brilliant after your first book, but I'm even more impressed now. Thank you for giving me so many great ideas to chew on.

01:19:31 aurora gonzales: thank you so much

01:19:32 Donna McClue: Thank you. Stay safe

01:19:37 Aya Zvaigzne: Thank you very much for a really excellent seminar.

01:19:45 Emily Kavanagh: Thanks so much. Glad these webinars are back.

01:19:48 Melonie Smith: Thank you

01:19:56 Catherine Head: Thank you very much- love your first book and cannot wait for the second one to be published!!!

01:19:57 Lorie Huff: Thank you! Great information!

01:20:08 Aya Zvaigzne: wow. only 10 left?

01:20:10 Judith Owens: Thanks so much for the information!
01:20:10 Peter Omura: Thank you so much
01:20:11 Chonda Long: <https://www.nctm.org/change/>
01:20:24 Kara Wamsley: Thanks!
01:20:32 Morgan Welsch: Thank you, great info!
01:20:39 Honey Sacro Swem: Thank you so much. Always, I learned so much
from you!
01:20:43 Cindy Bryant: Great presentation! Thank you Amy and Grace!

01:21:16 Christina Alliance: Thanks so much!
01:22:02 Chonda Long:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/MTLT_eTOC_Sept_2020.pdf
01:22:10 Vikas Saxena: Wonderful presentation, Thanks Vikas Saxena