

00:18:47 Trena Wilkerson: Welcome! Hello from Waco, TX!
00:19:08 Kerry Morton: Kerry from Oregon
00:19:08 Latrenda Knighten: Welcome! Hello from Baton Rouge, LA!
00:19:14 Sharae Pierret: Good evening! Sharae from Bronx, NY
00:19:26 Aya Zvaigzne: Kind greetings to all from Nashville, TN
00:19:30 Aaron Zwirn: Hello from Southern California!
00:19:30 menekse tok: Hello from Chicago
00:19:31 Jessica Scheele: Seattle WA
00:19:34 Kirsten Bohl: Durham, NC
00:19:38 Aya Zvaigzne: @c
00:19:44 Cynthia Lee: Aloha from Hawaii!!
00:19:44 Kim Johnson: Kim from PA
00:19:50 Beverly Bailey: Diamond, Ohio
00:19:53 Melissa Picard: Milford, MA
00:19:55 Burcu Durmaz: Antalya, Turkey
00:19:57 Leonard VerMaas: Lenny from Nebraska
00:19:58 Natalie Granger: San Diego CA
00:19:59 Rosalyn Bantay: Hello from Philippines
00:19:59 Aya Zvaigzne: @Chonda - love that hair color :-)
00:20:01 Daniel Irving: Hello from North Providence, RI! Wishing you
all a happy and healthy New Year!
00:20:02 Jenny Lopez: Norwalk, Ct
00:20:15 Teresa Reddish: Douglasville, Georgia
00:20:17 Aya Zvaigzne: Hi Trena (waving)
00:20:31 Cristy Ector: Hello from Grand Rapids, MI
00:21:04 Jenny Lopez: Norwalk, CT
00:21:11 Carol Matsumoto: Hi from Winnipeg
00:21:22 Trena Wilkerson: Hi Carol!
00:21:31 Carol Matsumoto: Hi Trena
00:21:39 Trena Wilkerson: Waving Back!
00:22:29 Carol Matsumoto: Hi Latrenda and Chonda
00:23:06 Chanel Purvis: Hello all! Bronx, NY
00:23:46 Chonda Long: Resources for the Session - [https://
www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/
Webinars_and_Webcasts/Webcasts/Jan12WebinarHandout.pdf](https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Jan12WebinarHandout.pdf)
00:24:04 Leslie Angella Espinoza Pacheco: Good afternoon from Chile
00:25:00 Kirsten Bohl: mathicalbooks.org
00:25:23 Chonda Long: November session - [https://www.nctm.org/
online-learning/Webinars/Details/530](https://www.nctm.org/online-learning/Webinars/Details/530)
00:26:24 Mary Kollman: I didn't get to use Nothing Stopped Sophie
yet.
00:26:36 Chonda Long: Did you use any of them?
00:27:31 Debbie Nelson: I've been creating CGI lessons with One Fox
and Pigeon math and a new favourite Sleep, Sheep
00:29:55 Chance Nalley: I used this for several years in middle
schools
00:31:01 Babel Gorham: The Number Devil is a wonderful book - our
Teacher of the Gifted and Talented uses it with 4th and 5th. We did
some push-ins in my 4th Grade class. Excellent book!!

00:33:47 Kim Johnson: Pascal's triangle
 00:34:09 Sharon Stefan: Will her power point be shared with attendees?
 00:34:19 Sharon Stefan: Thank yo
 00:34:23 Kim Johnson: Jo Boaler has a great lesson on finding patterns in this
 00:34:34 Chonda Long: The Power Point will be posted with the recording.
 00:34:37 Cristy Ector: 1s along the side
 00:34:39 Aya Zvaigzne: Complete beauty in the patterns and symmetry
 00:34:39 Natalie Granger: I notice there are 1s on the outside
 00:34:51 Kirsten Bohl: The pattern is not immediately obvious.
 00:34:55 Aya Zvaigzne: symmetry
 00:34:55 Cynthia Lee: Base has larger numbers
 00:34:55 Glory Jurich-Sarna: number patterns.... adding numbers
 00:34:58 Kerry Morton: The sum is found from the two numbers touching from above
 00:35:00 Sharon Stefan: Adding certain numbers gives next numbers in rows
 00:35:03 Cristy Ector: counts 1-6 the second in
 00:35:10 Kerry Lindo: top numbers equal sum of bottom numbers
 00:35:12 Hina Da Sylveira: the center numbers add up to each others going down
 00:35:19 Lisa L Lambuth: Palindrome-ish
 00:35:19 Burcu Durmaz: There are consecutive numbers diagonally
 00:35:23 Chanel Purvis: Vertically from the second 1, it increases by 1
 00:35:43 Chonda Long: <https://student.desmos.com/join/tdqwva>
 00:36:03 Chonda Long: https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Jan12WebinarHandout2.pdf

 00:38:37 Chanel Purvis: Im in
 00:38:37 Natalie Granger: Yes!
 00:38:40 Kerry Morton: I'm in and making iy
 00:38:41 Kerry Lindo: in
 00:38:42 Lisa L Lambuth: yes
 00:38:44 Sharae Pierret: yes
 00:38:47 Cristy Ector: in
 00:40:40 Natalie Granger: Line of symmetry
 00:40:42 Kerry Morton: symetry
 00:41:04 Lisa L Lambuth: It's the line of symmetry and the line for palindrome-ishness.
 00:41:58 Chonda Long: <https://student.desmos.com/join/tdqwva>

 00:43:16 Latrenda Knighten: Love this!
 00:43:26 Natalie Granger: How cool!
 00:43:35 Cynthia Lee: Beautiful!!
 00:44:23 Chonda Long: Resources for the Session - https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/

Webinars_and_Webcasts/Webcasts/Jan12WebinarHandout.pdf

00:45:11 Kerry Lindo: the no in a trinagle ars addends and sum

00:45:11 Daniel Irving: It's so wonderful to think of something typically thought of as a 'formula'/expression generator, in new and creative ways!

00:49:45 Chonda Long: Resources for the Session – https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Jan12WebinarHandout.pdf

00:49:50 Kirsten Bohl: The author suggests a whole-school read-aloud activity: <https://www.onebookoneday.com/>

00:49:53 Daniel Irving: I love this idea! Between this and the math origami webinar, love the hands-on (cross-grade level) explorations!

00:50:43 Trena Wilkerson: @Daniel—both of these cross multiple grade levels!

00:51:06 Daniel Irving: Absolutely!

00:51:08 Trena Wilkerson: THanks@Kristen for sharing the read-aloud activity!

00:52:08 Trena Wilkerson: So get your colored pens/pencils out and explore Pascal's Triangle!

00:53:14 Trena Wilkerson: Love the Very Hungry Caterpillar and all the mathematics one can explore! Problem solve AND problem pose!

00:53:20 Kirsten Bohl: Those are great pictures!

00:53:35 Leonard VerMaas: I have collected several math picture books with activities to help students enjoy learning math at <http://bit.ly/lennyvpicturebooks>

00:53:57 Trena Wilkerson: Thank you for sharing @Leonard!

00:54:18 Daniel Irving: Thank you Leonard!

00:54:21 Kirsten Bohl: Some nice DREME reading guides as well: <https://familymath.stanford.edu/activity/storybook-guide-for-eric-carles-123/>

00:55:18 Kirsten Bohl: I love this -- like tangrams

00:55:29 Jenny Lopez: I see 10 triangles

00:55:31 Kim Johnson: hexagons

00:55:35 Natalie Granger: 4 of the shapes are the same

00:55:41 Camille Mann: hexagons

00:56:01 Trena Wilkerson: Thank you @Kirsten!

00:56:04 Chonda Long: https://docs.google.com/presentation/d/1gBkiwNR0H37CgiLSaJuzIb5kCkELlWpbIS8_2-6hEHo/edit#slide=id.gb4e4397afd_0_0

00:56:13 Trena Wilkerson: Thank you @Leonard!

00:57:12 Daniel Irving: Great for deriving area formulas of more complex shapes and composite figures!

00:57:20 Chonda Long: <https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Patch-Tool/>

00:57:36 Trena Wilkerson: Agreed @Daniel—Pattern blocks are powerful across grade levels.

00:58:39 Debbie Nelson: What month/issue is the Hungry for Spatial Reasoning article please

00:58:52 Kirsten Bohl: these are so fun!
00:59:15 Daniel Irving: August 2012, Vol. 19, Issue 1
00:59:17 Kerry Morton: Math Learning Center has a pattern block app that is amazing!
00:59:33 Jenny Lopez: @Kerry I agree
00:59:39 Daniel Irving: @ Debbie: <https://www.nctm.org/Publications/teaching-children-mathematics/2012/Vol19/Issue1/Hungry-for-Early-Spatial-and-Algebraic-Reasoning/>
00:59:48 Kim Johnson: the patch tool doesn't work in chrome anymore
01:00:05 Trena Wilkerson: Thanks for sharing @Kerry and @Daniel!
01:00:14 Kirsten Bohl: you might have to click on another link -- the first screen wasn't interactive in chrome but there's a link to the interactive place
01:00:35 Jenny Lopez: @Kim oh no!
01:01:10 Natalie Granger: I'm on Chrome and it works for me...
01:01:36 Trena Wilkerson: Notice it addresses algebraic reasoning in the early grades!
01:02:10 Trena Wilkerson: Great book!!! @Which one doesn't belong--so much problem posing and conjecturing you can do!
01:02:26 Trena Wilkerson: Justify and explain are key!
01:02:51 Chanel Purvis: The bottom right does not belong because it has 5 sides and the other shapes have 6 sides
01:02:57 Jenny Lopez: For kids who are new to this, you have keep reite
01:02:57 Daniel Irving: Great for providing entry-points for all students. No wrong answer; and so many ways to justify each answer! Empowers each student to share voice!
01:03:27 Jenny Lopez: For kids who are new to this keep repeating that there are no right answers, as long as they can prove it
01:03:41 Chonda Long: <https://www.menti.com/gxmftbwbkj2>
01:03:51 Trena Wilkerson: agreed-idea is to justify!
01:04:08 Kirsten Bohl: can we see the picture again please?
01:05:59 Jenny Lopez: @kristen click on the link and you will see the picture
01:07:16 Trena Wilkerson: That was my husband's favorite part of Sesame Street! :-)
01:07:41 Chanel Purvis: I use these with my 4th grade students a lot! <http://wodb.ca>
01:08:07 Trena Wilkerson: Great source...again across grade levels!
01:08:30 Leslie Angella Espinoza Pacheco: Thanks!
01:09:00 Natalie Granger: Not only teaching math discourse, but good listening and social skills being practiced too!
01:09:20 Trena Wilkerson: Indeed @Natalie!
01:11:30 Sandhya Raman: love this book!
01:11:57 Kirsten Bohl: context!
01:12:50 Chonda Long: https://jamboard.google.com/d/1j-cMFHcecffaIE7KQhj1wURZB3X574_q7Fa3oCT0Efc/viewer
01:14:12 Kirsten Bohl: DREME reading guide: <https://familymath.stanford.edu/activity/storybook-guide-based-on-annie-watson-and-rebecca-evans-is-2-a-lot/>

01:14:38 Kirsten Bohl: more enjoyment
01:14:52 Cynthia Lee: I Love Math!
01:14:54 Kirsten Bohl: sense of community
01:15:40 Kim Johnson: Is there a good place to find good math books and activities to go with them?
01:16:03 Kirsten Bohl: mathicalbooks.org
01:16:07 Natalie Granger: THANK YOU SO MUCH! This has been such a great use of my time!
01:16:38 Kirsten Bohl: <https://familymath.stanford.edu/>
01:16:57 Babel Gorham: Amazing resources Thank You So Much
01:17:29 Chonda Long: <https://jamboard.google.com/d/1xqx7pP-SzTPVrxY2NVcCGiJpHJL6JR0bS3DaolBN5Z4/viewer>
01:17:35 Sharae Pierret: Thank you so much for all the resources. I learned so much. I cannot wait to use these resources in my classroom.
01:18:06 Leonard VerMaas: I think it is important to use childrens
01:19:10 Leonard VerMaas: I think that it is important to children's books at all level. Many time we use them less as students get older. Older students love them as well.
01:19:41 Maegan Harris: I'd love to see your list of geometry books!
01:19:44 Kirsten Bohl: ooooooh
01:19:54 Jenny Lopez: Great!
01:20:17 Tarek Qeshta: Thank you for the webinar and I look forward to seeing the record of it if it possible.
01:20:29 Chonda Long: The recording will be available tomorrow.
01:20:44 Kim Johnson: Can you give the link to join?
01:20:52 Natalie Granger: I love this!
01:20:53 Lisa L Lambuth: Thank you so much for this informative and fun presentation. It's been a joyful time!
01:21:00 Teresa Reddish: Loved this!
01:21:02 Kerry Morton: Thank you!
01:21:02 Jenny Lopez: Can you go back to the previous
01:21:07 Glory Jurich-Sarna: TY! Awesome!
01:21:14 Sandra Figueroa: Thank you so much ladies! Wonderful ideas and resources!
01:21:17 Trena Wilkerson: www.nctm.org/register
01:21:17 Daniel Irving: Thank you all for such a wonderful presentation, engaging activities and sharing powerful resources!
01:21:18 Carol Matsumoto: Thanks Trena and Latrenda
01:21:26 Hina Da Sylveira: Thank you
01:21:26 Lisa Aldous: Thank you!
01:21:33 Kirsten Bohl: Boy, this crowd knows how to pack an hour with so many wonderful activities. Thank you!
01:21:33 Muhammad Husnul Khuluq: thanks for the enjoyable presentation
01:21:36 Trena Wilkerson: If you are a member you log in and go to MyNCTM up in the top corner.
01:21:41 Chanel Purvis: Tonight was amazing!! Thank you so much ladies. I really enjoyed everything!
01:22:21 Trena Wilkerson: Hope you will join in the MyNCTM Community so we can share and discuss!

01:22:42 Trena Wilkerson: All kinds of different books for the one Thursday night!!

01:23:29 Latrenda Knighten: Thanks so much for joining us tonight! Trena and I are so thrilled that you guys were able to "play" with us tonight.

01:23:31 Trena Wilkerson: Thanks everyone for being here and sharing ideas!

01:23:58 Kathleen Morris: Outstanding presentation, Trena and Latrenda! Thank you for all the fabulous ideas and resources...lots and lots I'll use right away!!

01:24:11 Aya Zvaigzne: Thank you very much Trena and Latrenda. It was a very resource and idea packed webinar. Most wonderful !

01:24:15 Heather Adair: Thank you!

01:24:15 Cristy Ector: thank you!

01:24:24 Alina Stauffer: Thank you!

01:24:25 Tarek Qeshta: Great

01:24:25 Jenny Lopez: Thank you

01:24:30 Leonard VerMaas: Thanks for the sharing. Lots of good ideas.