

00:21:26 Trena Wilkerson: Hello from Waco, TX!
00:21:33 Leslie Texas: Hi from Louisville, KY
00:21:36 Guadalupe Alvidrez: Hello from Covina, Ca
00:21:38 Toni Galassini: Hello from Chicago!
00:21:43 Jorge Veloso: Hi from Angola.
00:21:45 Leah Watson-Rodgers: Hi. I am from Fontana, CA
00:21:47 Quianna Watkins: Hello from Decatur, GA
00:21:48 Kathleen Morris: Good evening from northern VA
00:21:48 Marta Espinoza: Hello I m from Ottawa
00:21:48 Roberta Yeager: Pocono Mountains, PA
00:21:49 Kelli Sullivan: Vass, NC
00:21:49 Susan Boggs: Hello frpm Greensburg, PA
00:21:53 Cindy Bryant: Thanks for joining! Please set your chat to All
panelists and attendees so everyone can see your posts! Hello from Springfield, MO
00:21:53 Cheryl Berkuta: Hello from NJ
00:21:54 Lisa Aldous: Hello from Annapolis, MD
00:21:54 Anita Schilling: Anita from Midlothian, Va.
00:21:54 VAISHALI CHAUDHARY: Hii from INDIA
00:21:56 Juli Lenzotti: Greetings from Denver, CO!
00:21:57 Myra Collins: Good evening from Greentop, MO
00:21:57 Courtnie Thompson: Mansfield, Tx
00:22:00 Erica Gray: Hello from Cumberland, VA
00:22:02 Lillian Rogers: Hi from Chattanooga, TN
00:22:02 roya basu: Hi from NJ
00:22:03 Brittney Melnick: Evening from Cape Breton, Canada!
00:22:05 Sharon Black: Greetings from New Brunswick Canada
00:22:06 Cindi Roberts: Northeast Tennessee
00:22:07 Nora Marasigan: Hello from Philippines
00:22:07 Beth Penick: Beth from Kentucky
00:22:07 Mary Dahn: Hi from AZ
00:22:08 Eliza Reyes: Hello from San Antonio, TX!
00:22:09 SHARON VEGA: Hi - Houston Tx
00:22:12 Lorie Huff: Hello from Fayetteville, Arkansas
00:22:12 Terri McCarthy: Hello from Danbury, CT
00:22:13 Jan Back: Hello, Jan Back from Hampton, Tennessee
00:22:14 Carol Matsumoto: Hi from Winnipeg
00:22:15 Cindy Bryant: So glad you all could join us this evening.
00:22:18 Arlene Bachinela: Hello from Baltimore, MD
00:22:19 Valerie Vanderport: Hello from Everett, WA!
00:22:20 Maral Aznavour: Hello from Texas.
00:22:21 Amy Novoselsky: Hi from Johns Creek GA!
00:22:22 Nellie Alvarez: Goodyear, AZ
00:22:23 Carrie Bengry: Hello from Mansfield, TX
00:22:25 Sandy Clark: Hello from Lynchburg, VA
00:22:25 Ramona Hall: Hi from Charlotte NC
00:22:27 VAISHALI CHAUDHARY: HII from INDIA GOOD MORNING TO ALL
00:22:28 Shashidhar Belbase: Hello from United Arab Emirates (UAE)
00:22:29 Gina Sullivan: Hello from Baltimore, MD! :)
00:22:29 John Sasko: Hola from Money Earnin' Mt Vernon NY!
00:22:30 Lesly Brown: Hello from Knoxville, Tennessee. Happy Monday from

a Lesly Brown.

00:22:30 LeAnna Deveaux-Miller: GOOD EVENING..from NEW PROVIDENCE, THE
BAHAMAS
00:22:31 Abigail Santiago: Greetings from Kentucky!!
00:22:32 LANY JAMERO: good morning from Philippines
00:22:34 Donna Saylor: Pulaski County Kentucky
00:22:35 Marion Goetze: Hello from Vancouver. Canada ca
00:22:39 Judy Keeney: Hello from Las Vegas
00:22:42 Margie Pearse: Hi from PA
00:22:43 Katrina Kelsey: Hi all! Excited to be back! Syracuse, NY
00:22:45 Thy Dinh: Hi from San Diego
00:22:47 Cindy Bryant: Good morning, good afternoon, good evening... :-)
00:22:47 Michael Lanstrum: Hello from Cleveland, OH
00:22:51 Camille Wilson: Good evening from Virginia
00:22:53 Tracey Mark: Hello from Indiana.
00:22:55 Alden Paye: Hi from Connecticut!
00:22:56 Anita Gumbert: Hello to everyone from Argyle, Texas :)
00:22:58 Mary France Imperial: Hello from Philippines.
00:23:00 Merci Del Rosario: hello from California
00:23:00 Leona Davis: Good evening from Greensburg, PA
00:23:04 Lisa Dilonardo: Hi from Southern California
00:23:08 Janet Cuttray: Hello from Savannah, Georgia
00:23:08 WARASABON DOMINIKUS: hello from Kupang-Timor Island Indonesia
00:23:11 Iesha Costanzo: Hello from Charlotte NC
00:23:11 LA VERNE MITCHELL: La Verne Mitchell from NYC. Hello everyone!
00:23:14 Olga Kosheleva: Hello from El Paso, TX!
00:23:19 Perian Breuer: Perian Breuer - Seattle WA
00:23:23 Cristal Martinez: San Antonio, TX
00:23:24 Michelle Zidner: Michelle from Ottawa, Canada
00:23:24 Donna Saylor: Thank you!
00:23:24 Moreno Tracy: hello from Phoenixville PA (:
00:23:25 Katharine Zaragoza: Hello from Illinois
00:23:26 Dave Hankin: Hello again from Globe, Arizona!
00:23:27 Shawna VanderCook: Hello from Burleson, TX
00:23:27 Victoria Campbell: Hi from Tucson, AZ
00:23:31 Lisa Lambuth: Hello from Los Angeles, CA
00:23:32 Sharon Shrum: Virginia
00:23:32 Laurie Barker: Hello from Junction, Texas
00:23:33 Alicia Winarski: Hello from Maryland
00:23:36 Laura Tiisler: Laura From Ottawa Canada
00:23:37 Brittany Hill: Hi, from Dallas, Tx
00:23:38 Bobby Flores: Howdy - Houston Tx
00:23:41 Bonnie Angel: Hello from north Georgia!
00:23:42 Lori Smith: East Tennessee
00:23:42 Sarah German: Hello from Springfield, Tennessee!
00:23:42 Tracy Hoskins: NORTH CAROLINA
00:23:43 Tammy Corness: Surrey, BC, Canada
00:23:44 Sheryl Joy Aloag: hello from philippines...
00:23:44 Daniel Edelen: Hello from Orlando - FL
00:23:44 bonnie manzon: sf bay area

00:23:45 Cindy Bryant: Hi Kimberly from Joplin, MO
00:23:45 Glenda Hollie: Good evening, I am Glenda Hollie from Detroit, MI
00:23:45 Diane McDonough: Hello from Massachusetts
00:23:46 David Barnes: Hello from Northern Virginia!
00:23:46 Angela Cooper: Spring (Houston), TX
00:23:50 Alison Humphrys: Calgary Alberta Canada
00:23:51 Inger Murphy: Hi from Deer Park WA
00:23:53 Stacie Parham: Dinwiddie, VA
00:23:53 Megan Dooley: Hi from Charles County MD
00:23:57 J AvH: Hello from Minneapolis
00:23:58 Patricia Barrera: Calgary, Canada
00:24:00 Ashlee Paxton: Howdy from Fort Worth, Texas!
00:24:03 Adriane Fischer: Lake Ridge ,VA
00:24:05 Laura Callen: Texas
00:24:05 Valerie Bubnack: Rockford IL says HI!!
00:24:08 Daniel Irving: Hello from North Providence, RI!
00:24:08 Valerie Clay: Hi from Willingboro, NJ
00:24:08 Maranda Jones: hi from Colorado.
00:24:19 Alicia Scott: Hello from San Antonio, TX
00:24:19 Leticia Chapa: Hello from SA, Texas
00:24:20 Terri Brown: Hi from Edgemont, South Dakota
00:24:20 rachel wingo: Hello from Kentucky
00:24:22 Susan Spigelme: Hello from Az
00:24:22 Lisa Brinkley: Las Vegas
00:24:28 Maria Zavala: Peace from Oakland, CA
00:24:28 Catherine Bertrand: Catherine from IN
00:24:30 Marie Clarke: Hi arie from Philadelphia
00:24:32 Myra Collins: It's fun to see where everyone lives. Wouldn't it
be fun to pin a map with all the locations.
00:24:32 Galaxy J2 Core: Good morning from Philippines.
00:24:34 Cindy Bryant: Hi Carol M!
00:24:35 Julie McMinn: Tennessee
00:24:36 Mark Phipps: Hey from Mesa, AZ
00:24:38 Emma Thompson: Vancouver, BC!
00:24:38 Laurie Kurzen: KS
00:24:38 Denise Griffith: Hello from Denise Griffiths in Wilmington,
DE!
00:24:39 Margaret Brown: Hi from Portland, Maine
00:24:43 Rebecca Gonzalez-Kreisberg: Hello from Western Massachusetts
00:24:48 Chonda Long: Here is the link to the handout -
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June29WebinarHandout.pdf
00:24:50 Pam Cadena: Hi from Redondo Beach, CA!
00:24:50 Ann Swierzbin: hello from Boston
00:24:54 Cindy Klages: Hello from Eufaula, AL!
00:25:04 Tracy Coleman: Hello,
00:25:11 Juaacklyn Cunningham: Hi from KY
00:25:12 Elisabeth Sherer: hi from Arkansas!!!
00:25:12 Carleen Pocklington: Calgary Canada woo

00:25:12 Cindy Bryant: Day 51!!!
00:25:13 Tracy Coleman: Hello, Tracy from Texas
00:25:17 Julie Miller: Hello from South Louisiana!
00:25:18 Andrea: Hello from Canada!
00:25:18 Sarah LaFramboise: Hello
00:25:19 Suzanne Tichy: Thank you
00:25:23 Stephanie Rudgers: Hello from NY
00:25:27 Carmen Guzman: Hello from Kissimmee Florida
00:25:31 Chonda Long: Here is a link to the handout for this session:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June29WebinarHandout.pdf

00:25:32 Claudette S: Hello from Brooklyn, New York
00:25:48 LaTanya Jordan-Winters: Hi - Birmingham, AL
00:25:52 Vasiliki Balskas: Hello from Chicago
00:26:00 Lisa O'Malley: Hello from Wisconsin!! :)
00:26:07 Rita Shamrock: hello from Rita in Senoia, GA
00:26:11 Cindy Bryant: Change your chat setting to All panelists and attendees so everyone can see all of your posts!
00:26:14 Perla Arellano: Hi from Austin, TX! (:
00:26:20 Marcia Bumbury: Hello from Toronto!
00:26:26 Anca Icsarescu: hello from Burlington Ontario, Canada
00:26:27 Chonda Long: Here is a link to the handout for this session:
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00:26:33 Ashley Edwards: Hello from Charlotte NC
00:26:33 Nonye Obiora: Hello from Boston MA
00:26:43 Kelly Marshall: Hello from Bothell, WA!
00:26:43 Cindy Bryant: looking good!
00:26:45 Clare Nemeth: Good
00:26:45 Mary Whiteside: 👍
00:26:45 Stephanie Rickert: good
00:26:45 Carrie Daniels: gtg
00:26:46 Sharon Black: I can see it
00:26:46 Stephanie Brown: yes
00:26:53 Mary Hamilton: Hello from DC!
00:26:55 Donna Saylor: I can see it
00:27:12 Mohamed Jamaludeen Thirapusa Mohaideen: Greetings from Mohamed.
00:27:14 Nicolette Nalu: Good Evening! K-5 Math Specialist from ALABAMA!
00:27:15 Marcia Bumbury: Hello Janice, I was inspired by your math kits when you spoke in Niagara Falls. I brought them back to my school and school district in Toronto.
00:27:43 Shelly Scheafer: Hi! Shelly Scheafer from Bend, Oregon
00:27:54 Marcia Bumbury: @mpalmer1073 twitter. Marcia from Toronto
00:28:20 Chonda Long: Here is a link to the handout for this session:
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00:28:30 Debbie Nelson: Good to be here from neighbouring Vancouver Island
00:28:46 Ashley Thompson: Here from Houston, TX
00:29:02 Glenda Escasinas: Hello from maryland

00:30:08 stephr: Hello from Reno, Nevada
00:30:19 Miranda Carter: Hello from St. Marys County, Maryland.

00:30:19 Shashidhar Belbase: These boxes/baskets look nice with resources
to teach and learn number sense.

00:30:34 Missy Tuel: Hello From Greenup, KY
00:30:36 Olga Fellus: what if numbers are replaced by non-numerical
symbols

00:30:38 Olga Fellus: ?
00:30:52 Rachelle Broggin: Yes, Shashidhar I like this idea.
00:31:39 Shashidhar Belbase: Wow ! Very nice number blocks.
00:31:42 Ashley Thompson: I love sum blocks
00:31:45 Trena Wilkerson: Those are great number blocks!
00:31:51 Sharon Black: Love them
00:31:55 Janet Cuttray: I've never seen or heard of the sum blocks
00:31:57 Glenda Escasinas: nice number blocks
00:32:05 Sheri Morris: Love those blocks
00:32:18 Linda Pritchett: Hello!
00:32:29 Stephenia Courtney: number blocks👍
00:32:53 Shashidhar Belbase: I never thought of these color bids as
teaching learning materials.

00:33:32 Sheri Morris: I like the ten frames with sticks
00:33:53 Galaxy J2 Core: Excellent. Colorful materials are perfect for young
kids.

00:34:33 Mary France Imperial: amazing!
00:34:48 Clare Nemeth: Love the math sun!!
00:35:07 Nina Botsford: Very creative.
00:35:09 Maria Zavala: I love this idea of thinking of teaching mathematics
as studio play time.

00:35:09 Shashidhar Belbase: Pedagogy of Play, Playful Inquiry, The
Reggio Emilia, nice

00:35:43 Trena Wilkerson: Thank for sharing about the Reggio Emilia
Approach. I was able to visit their Cultural Center last year. It was amazing! Great
resources.

00:35:46 Sheri Morris: Love this quote
00:35:53 Chonda Long: Here is a link to the handout for this session:
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00:36:37 Marcia Balkin: Math for Love is an amazing resource. They opened
me up to math in so many new ways during a PD.

00:36:41 Stephenia Courtney: Thank you Ms Chonda!
00:36:51 Olga Fellus: What about student-student ball toss?
00:37:24 Marcia Bumbury: There is always student-student ball toss
00:37:25 Shashidhar Belbase: Nice questions !
00:37:38 Sheri Morris: Great questions
00:37:54 Carleen Pocklington: Great list of questions to create in your
thinking routines.

00:38:21 Laura Callen: "How do you know?"
00:38:35 Sonya F: can you show me?
00:38:37 Amy Landry: What makes you say that?

00:38:42 Marcia Bumbury: Where have you seen this before?
00:38:44 VAISHALI CHAUDHARY: stories relation
00:38:51 Trena Wilkerson: Great connections to self, world and math to math!
00:38:53 Rachelle Broggin: I never thought about relating play to math, but it makes complete sense especially for k to 2 kiddos.
00:38:58 Shashidhar Belbase: Math to self, world, and math... good way to make connection. Thank you 1
00:39:11 John Sasko: Check out SAME BUT DIFFERENT --- gray scale thinking. Similar to WODB, but only 2 images (usually)
00:39:36 Marci Galloway: Love the connections!
00:39:36 Lorie Huff: Wonderful connections to help students understand
00:39:51 Miranda Carter: Math and play is very important for my Threes they learn concepts like more or less bigger and smaller all throughout play.
00:39:59 Laura Callen: Love the literacy connection!
00:40:02 Bina Kachwalla: Thank you. these ideas are awesome
00:40:02 Maria Zavala: This play concept seems much closer to artistic expression than a lot of other math approaches. I love it.
00:40:11 Katharine Zaragoza: In Montessori we use math stories to introduce math concepts
00:40:13 Shashidhar Belbase: Playing with materials, language and ideas, very nice !
00:40:15 Marcia Bumbury: Play is learning, learning is play!
00:40:29 Cindy Bryant: So true @Marcia Bumbury!
00:40:33 Stephenia Courtney: Fun learning
00:41:08 Nina Botsford: It's motivating.
00:41:15 Sheri Morris: So many kindergarten classes have gotten so far away from the importance of PLAY! Not because of teachers but higher ups.
00:41:27 Katrina Kelsey: My kindergarteners love using mirrors
00:41:31 David Barnes: Here is a link to the handout for this session:
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00:41:45 Donna Saylor: Exactly Sheri Morris!
00:41:46 zaynab Abdullah Muhammad: Good question
00:41:46 Katrina Kelsey: We use them for learning letter sounds, never thought to use them for math.
00:41:52 Miranda Carter: During open houses parents love when I tell them that I focus on play based learning.
00:42:09 Anca Icsarescu: Tell me more... draw, paint, build your thinking , your ideas, ...are some statements that children love to hear from us educators
00:42:19 Nonye Obiora: Love the metaphors
00:42:27 Shashidhar Belbase: Mirrors, Windows and Doors, very nice metaphors to see outward and inward in mathematics.
00:42:33 LA VERNE MITCHELL: What an inviting environment!
00:42:50 Cindy Bryant: Wow...love the studio!
00:43:09 Rolando II Delos Reyes: very inviting to kids
00:43:10 Clare Nemeth: Love the studio! All of the open space and light.
00:43:13 Shashidhar Belbase: Inspiring Math Studio
00:43:15 Tamara Shand: @Katrinia Kelsey - what do you use for learning letter sounds? Missed that.

00:43:21 Katrina Kelsey: mirrors
00:43:22 Trena Wilkerson: Great learning space and similar in ways to Make Space approach.
00:43:45 Sonya F: love the idea of their own quotes
00:44:24 Andrea: love the Reggio influence and emphasis on pedagogical documentation.
00:45:05 Miranda Carter: What about students who cannot read? How would you invite them?
00:45:34 Olga Fellus: Great question! What is math! ?
00:45:36 zaynab Abdullah Muhammad: It is a plus that the materials seem to be more natural.
00:45:54 Tamara Shand: Miranda - you could have some kind recording device. They push a button and hear your voice.
00:46:12 Miranda Carter: That could work
00:46:15 Katrina Kelsey: That is a great idea ^^^^
00:46:15 Daryl Lo: That's a great idea, Tamara! Another way I could use our class ipads
00:46:17 Olga Fellus: I love the idea of establishing embodied relationship with mathematics.
00:46:24 Katrina Kelsey: Record it quick on an iPad and put the iPad at the table..!
00:46:29 Cindy Klages: That is cool!
00:46:40 Rachelle Broggin: Can you do these stations in your own class?? Never thought of using paint as a station for kiddos.
00:47:14 Shashidhar Belbase: Nice to see use of maps for spatial thinking
00:47:16 Karen Walsh Fortin: The Cape (Cape Cod) is a big cranberry farming community.
00:47:16 Andrea: Miranda- verbal directions are provided too... and teachers play and learn alongside the children modeling as well as exploring and reinforcing the learning with them.
00:47:27 Daryl Lo: So great to see local knowledge being tied into math
00:47:48 Janet Cuttray: I love this!
00:47:52 Sheri Morris: We all do math, YES
00:47:58 Miranda Carter: OK. I teach 3 year old preschool so I just wanted to see some ideas.
00:47:59 Shashidhar Belbase: "We all do math all the time" great quote.
00:48:15 Rachelle Broggin: Can you please share the books related to this center, Who Does Math??
00:48:20 Rachelle Broggin: Great idea!!!
00:48:25 Karen Laracca: Can you share titles of the books?
00:48:31 Chonda Long: Here is a link to the handout for this session:
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00:48:36 Rachelle Broggin: Thanks.
00:48:37 Cindy Klages: Thank you for sharing the book list!
00:48:38 Amanda Mills: You might ask the little ones how long they decide to not get out of bed after they've been woken up and tell them that's math.
00:48:45 Andrew Geller: Thanks, I was about to ask about a booklist.
00:48:58 Terri McCarthy: Fabulous I love this!
00:48:58 Jessica Barrier: I love these ideas! I am excited because

00:49:13 Jessica Barrier: I can use this in my kindergarten class also to make it more relevant.

00:49:40 Jared Campbell: LOVE Number Talks!

00:49:45 Bina Kachwalla: love number talks. Develops great confidence in students to share their ideas

00:49:52 Cindy Klages: Number Talks is the work of Sherry Parrish.... mental math, computation, subitizing

00:50:00 Donna Saylor: Love number talks! Kids love number talks!

00:50:02 Miranda Carter: In my student teaching I was in fourth grade and we started every lesson with a number talk. The kids loved it.

00:50:18 Maria Zavala:
<https://www.stenhouse.com/content/making-number-talks-matter>

00:50:20 Sheri Morris: I love Sherry Parrish Number Talks

00:50:30 Cindy Klages: Sherry Parrish has a new one on fractions and decimals.

00:51:19 Sheri Morris: Great for older students (fractions/decimals)

00:51:28 Elizabeth Wallace: What is the name of the book Janice recommended for K-2 number talks? Parrish book?

00:51:37 Kathleen Morris: Kathy Richardson and Sue Dolphin have a new book, Number Talks in the Primary Classroom

00:51:47 Miranda Carter: What was the Prek number talk book?

00:52:02 Sharon Shrum: Number Talks in the Primary Classroom Kathy Richardson and Sue Dolphin is a newly released book that is an excellent resource.

00:52:14 Cindy Klages: "Math buffet" - love it!

00:52:37 Jet Yeung: hello--jet from Henderson, nv

00:52:40 Maria Zavala: I am so, so excited by this math buffet idea. I like how different the materials are that are provided.

00:52:52 Rachelle Broggin: The kids are the learners and teacher is facilitator if that makes sense.

00:52:57 Shashidhar Belbase: Decomposing numbers, good idea.

00:53:03 John Sasko: Number Talks - Sherry Parrish - she suggested for the younger students - starting in preK, It's not specific to pre-K. Other, I think better book is Ruth Parker and Cathy Humphries - Making Number Talks Matter

00:53:05 Mary Dahn: free online virtual materials website? has items like virtual cards /

00:53:06 Nonye Obiora: Love the open-endedness

00:53:16 Jacqueline Colbourne: This can be used with higher grades as well. I see skills in here that would help students I taught this past school year.

00:53:38 Lisa Graves: A Math Buffet would be a great idea to use for a Soft Start to the beginning of the day. Love this!

00:53:50 Shashidhar Belbase: Synthesizing and Decomposing materials sound great resources.

00:54:02 Cindy Bryant: Please change your chat setting to All panelists and attendees so everyone will see your posts and questions.

00:54:08 Maria Zavala: "So you won't panic" - love it!

00:54:09 Maria Reid: Cute, very cute

00:54:19 Lorie Huff: Great reflection

00:54:34 Lisa Rossiter-Thornton: so wonderful - I love how you connected decompose from shapes to numbers

00:54:38 Lisa Rossiter-Thornton: so important

00:54:55 Susan Gutierrez: is any of this going to be pertinent to pre k?

00:55:16 Nina Botsford: Kids understand what they are doing. And why.

00:55:17 Lisa Rossiter-Thornton: often times when students are learning area in grade 7 they are not sure of how to decompose the shapes

00:55:22 Cindy Bryant: Click the arrow on the left hand top side of chat and you should be given the option to close.

00:55:23 Marcia Bumbury: @Lisa rossiter thornton HELLO!!

00:55:39 Lisa Rossiter-Thornton: @Marcia Bumbury! You are awesome and hello!!

00:55:51 Pam Cadena: @Susan G--You can use these ideas with smaller numbers.

00:56:11 Eboney Mckinney: loving the connection across grades

00:56:14 Marcia Bumbury: @Lisa Rossiter Thornton we must be friends

00:56:24 Andrea: the resources and materials speak to both younger and older grades.

00:57:01 Sheri Morris: Just a thought children must hold math in their hands before they can hold it in their heads. I love the opportunities for them to play with manipulatives

00:57:11 Lisa Rossiter-Thornton: @marciabumbury - happy to call you friend! :)

00:57:40 Shashidhar Belbase: When it rains here (in UAE), students want to come out to see and feel it.

00:57:43 Tamara Shand: Sheri - I love how you phrased that! "Children must mold math n their hands before they can hold it in their heads."

00:57:56 Clare Nemeth: Love the snowflake idea

00:58:01 Beth Penick: Sheri Morris LOVE that statement!

00:58:03 Mark Fili: Ideas around Jo Boaler

00:58:10 Rachelle Broggin: The math studio is related to how the kids want to learn rather than teacher directed. Love these different ideas.

00:58:14 Maria Zavala: @SheriMorris, yes! Math is in our bodies, in our bones... we overemphasize the brain.

00:58:14 Jessica Barrier: I love that!!

00:58:19 Miranda Carter: What is a Buddah Board?

00:58:23 Ramona Hall: Love all of these manipulatives!

00:58:29 Janet Cuttray: The snowflake idea is wonderful

00:58:38 Tamara Shand: A buddha board is a board you use water to 'paint' with.

00:58:46 Chonda Long: A PDF of the slides will be available tomorrow with the recording.

00:58:46 Andrea: hurrah. lard is a board to paint water with and it evaporates.

00:58:56 Andrea: Buddha board* haha

00:58:59 Tamara Shand: <https://buddhaboard.com>

00:58:59 Bradly Rivera: I love all of these ideas! This is a great constructionist approach to mathematics.

00:59:16 Miranda Carter: Ah I have never heard of that before.

00:59:31 Tamara Shand: I love how students have so many opportunities to explore an idea.

00:59:58 Shashidhar Belbase: Wow ! Great works by students !

01:00:07 Claire Doyle: I really appreciate your approach to math. Its so

refreshing to see conceptual learning in action in your learning studio

01:00:13 Sara Brannan: Thank you Tamara!

01:00:25 Myra Collins: If you have a chance for snow, put some black paper in the freezer and take out as you leave the building. The paper will keep the snowflakes from freezing quite so quickly. My first graders loved doing that.

01:00:38 Galaxy J2 Core: Best manipulatives for the kids. Thanks.

01:01:04 Brittany Hill: Love all the real world connections.. very important

01:01:20 Cindy Klages: Yes, connections are key!

01:01:23 Shashidhar Belbase: "Noticing"

01:01:24 Clare Nemeth: Love the idea of using the charcoal to get them to think about the math and science in the plants.

01:01:48 Sheri Morris: Great idea never thought about freezing the paper we don't get a lot of snow in Augusta, GA. but something to think about.

01:02:37 Nina Botsford: Awesome idea!

01:02:45 Jennifer Cos: I have also used stiff black felt and kept it in the freezer ready to grab on the way to the playground.

01:02:49 Cindy Bryant: @jnovakowski38

01:03:08 Shashidhar Belbase: Clay imprints

01:03:09 Shashidhar Belbase: nice

01:03:33 Bina Kachwala: Fantastic work with students!! So powerful

01:03:45 Laura Callen: Learning Time

01:03:54 Brenda Smith: I'm in Florida with access to lots of shells – can use for many ways. Symmetry. patterns. etc.

01:03:55 Tracy Hoskins: Shape stamps

01:03:56 Beth J: Fractions and food

01:03:57 Shashidhar Belbase: Studio idea is great for integrated teaching and learning math and other disciplines.

01:03:57 Laura Callen: Learning time in relation to the students day

01:04:00 Karen Walsh Fortin: I want to go to this studio!

01:04:02 CHANTAL LARIVIERE: weaving

01:04:04 VAISHALI CHAUDHARY: Big idea - make them understand number patterns - materials red kidney beans , toothpicks / matchsticks

01:04:05 Michelle Zidner: all about me unit - symmetry of their faces using natural materials to show

01:04:07 Cindy Earp: leaf rubbings

01:04:09 Roberta Yeager: Fractions using food

01:04:10 Marion Goetze: Check out Peter Liljedahl's Numeracy tasks:
<http://www.peterliljedahl.com/teachers/numeracy-tasks>

01:04:11 Erica Thompson: sugaring season

01:04:12 Heather Fairley: using recycled materials to build structures so they can see the connections between 2d shapes and 3d solids

01:04:32 Genevieve Zetino: play store for coins.

01:04:34 Katherine Turcios: probability

01:04:34 Miranda Carter: measuring with different items and compare the different measuring tools

01:04:49 Brittany Hill: weather (time, measuring rain)

01:04:58 Sheri Morris: Nice idea Heather recycled materials :-)

01:04:59 Caitlin Key: we made a city with the different shapes and used pictures from actual buildings to help build their ideas

01:05:08 Kimberly Rusina-Paz: I use the oil pastels, dice, different

measuring materials.

01:05:20 Mary Dahn: estimation with classroom items

01:05:24 Nonye Obiora: Area and perimeter

01:05:41 Jacqueline Colbourne: Using thWe did a program with crayons where
the gave us various menu

01:05:42 Rebecca Lepow: LOVE proving pie, such a great visual!

01:05:45 Kimberly Rusina-Paz: I like the idea of the drawing and clay.

01:05:47 Rebecca Lepow: pi

01:06:00 Gail Dean: compare seeds of different types for size, shape,
and method of spreading

01:06:59 Jacqueline Colbourne: We did a program with Crayola where they
used different items that the company produces to use within out math lessons. It
was very creative!

01:07:18 Kimberly Rusina-Paz: love all your art! I often feel guilty when
too much art.

01:07:20 Veruschka Thomason: Those spindle whorls are beautiful!!

01:08:20 Donna Saylor: Love the posts!

01:08:24 Cindy Bryant: Love the family/culture connections.

01:08:52 Kimberly Rusina-Paz: do you get the cedar shims

01:08:55 Claire Doyle: What a beautiful way to connect to your community.

01:09:00 TaNessa Robinson: neat

01:09:02 Nina Botsford: Wow! They are all involved!

01:09:07 Vasiliki Balskas: That's awesome!

01:09:27 Jessica Rock: Street art

01:09:31 Gail Dean: weavings

01:09:34 Donna Saylor: K could use chalk outside on sidewalks to create
their posts about family

01:10:45 Katharine Zaragoza: These are great ideas!

01:10:54 Claire Doyle: Great to model your own wondering and observations.

01:11:39 Shashidhar Belbase: Nice play ground models by students.

01:11:50 Jen Betz: These are all amazing ideas! what kinds of data did
you gather to measure student progress? was there any evidence on their class
assessments that this work yielded quantifiable progress?

01:12:06 Amy Hamlin: Excellent!

01:12:27 Missy Tuel: How did you measure there progress?

01:12:28 Janet Cuttray: Great ideas!

01:12:44 Myra Collins: Very interesting presentation. I wish I still had a
classroom. So many things to try and share.

01:12:45 Heidi Schnabel: How did you get the funding? I love these materials,
but many of these are expensive.

01:12:47 Mary France Imperial: Wonderful

01:12:50 Caitlin Key: did they actually fundraiser for this project?

01:12:54 Claire Doyle: How do you include families in some of this studio
work outside of your documentation panels

01:12:56 Mary Dahn: how big were the classes?

01:12:58 Sheri Morris: The Studio is amazing reminds me of The Ron Clark
Academy in Atlanta, GA. Check out videos on You tube.

01:13:21 Katharine Zaragoza: My third graders designed sneakers (2d) and
then they had to make them (3D) using masking tape and cardboard

01:14:11 Tracy Hoskins: Awesome project based learning!

01:14:28 Gail Dean: Love the sneaker idea!

01:14:42 Andrew Geller: SUCH a great question about measuring the color.

01:14:42 VAISHALI CHAUDHARY: amazing

01:15:08 Mary Dahn: how long was a class?

01:15:13 Claire Doyle: Authentic learning is so visible here.

01:15:50 Maria Reid: This is so amazing!

01:15:51 Nina Botsford: Measuring the color???!!! Wow! What a great idea!

01:16:08 Amparo Torres: Great ideas!!!

01:16:12 Shashidhar Belbase: Color spectrum sticks, nice.

01:16:48 Amy Tipton: we dont have this much math time

01:17:14 Cindy Klages: Science - temperature, biomes, etc.

01:17:52 Kelly Marshall: I love all the exploration options. I need more time to do this!!

01:17:52 Andrea: Amy Tipton- this wasn't achieved in one period or even in one week... it's in going over time and extended learning.

01:17:53 Anne McGlame: Same Amy...nor do we have the space :(

01:18:07 Kristin Tiller: We use The Colors of Us in our Identity unit when kids do a self portrait by mixing paints to make their skin tones, but experience measuring colors ahead of time would really provide a great foundation.

01:18:48 Donna Saylor: Cool!

01:19:13 Donna Saylor: Never thought to measure a puddle!

01:19:15 Janet Cuttray: Awesome!

01:19:26 Shashidhar Belbase: Nice to see a lot of out door activities in math

01:19:27 Claudette S: This webinar has such wonderful ideas of how we can have cross-curricular work.

01:20:05 Donna Saylor: Love the 100 leaves idea!

01:20:15 Roberta Yeager: I agree, I love taking my students outside

01:20:21 Erica Gray: I am so excited to try these ideas in my special education classroom. I think this workshop was amazing.

01:20:28 Sarah Strunin: I'm wondering how you could modify these outside ideas to serve an urban community where you would not necessarily be comfortable taking kids outside due to safety issues

01:20:30 Roberta Yeager: YES

01:20:34 Erica Thompson: Studio wagon?! Math to go!

01:20:39 Chonda Long: Here is a link to the handout for the session - https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June29WebinarHandout.pdf

01:20:56 Anca Icsarescu: The outdoors offers endless learning encounters

01:20:56 Tamara Shand: We'll be doing blended learning in the Fall so I'll be using some of these outdoor ideas to keep us in the fresh air.

01:20:58 Sheri Morris: So many greats ideas I've taken away from this Webinar!! :-)

01:21:00 Nina Botsford: Agree! This workshop is absolutely great!

01:21:08 Andrew Geller: So many VERY cool ideas in your excellent presentation. Definitely visiting your blog. Thanks so much for your time and research.

01:21:09 Clare Nemeth: Love the idea of a studio wagon so we can get outside to learn.

01:21:31 Donna Saylor: This has been great! Thank you so much!

01:22:11 Chonda Long:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June29WebinarHandout.pdf

01:22:13 David Barnes: Here is a link to the handout for the session -
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June29WebinarHandout.pdf

01:22:18 Clare Nemeth: Loving this session. I am very artsy and love creating. Love when I can make those connections in the classroom.

01:22:22 Proteone Samuels: What a new way to do Math, I have gain many ideas.

01:22:32 zaynab Abdullah Muhammad: I would like a list of all the Big ideas in maths. Any suggestions?

01:22:34 Roberta Yeager: Thank you so much. Great ideas!

01:22:37 Shashidhar Belbase: Interdisciplinary project is very nice idea.

01:22:44 Cynthia Dandridge: Lots of great ideas. Thank-you.

01:22:44 Sheri Morris: Praying we can all get back to face-to-face learning.

01:23:08 Marion Goetze: Zaynab...there aren't that many but you can Google BC's new math curriculum.

01:23:14 wendy sanchez: whats the YouTube Channel?

01:23:21 Mary France Imperial: Learning outside the four corners of the classroom is really amazing!

01:23:22 Andrea: big ideas- are also based with our curriculums here in Canada. depends on your area and curriculum.

01:23:29 Rachelle Broggin: Did anyone see the books she had for the library, if so please send resource??

01:23:41 Donna Saylor: I missed it what youtube channel?

01:23:50 Cindy Bryant: Love the looms.

01:23:54 Trena Wilkerson: Thank you Janice! Great ideas and focused session around learning math making connections!

01:23:55 Lesly Brown: Wow! Some really great ideas! Thank you! Great presentation.

01:24:00 Chonda Long: Resources are listed in the handout-
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June29WebinarHandout.pdf

01:24:00 Mary France Imperial: Love it

01:24:01 Leslie Texas: What a fantastic session! Lots of wonderful resources and ideas. Thank you for sharing.

01:24:01 Vasiliki Balskas: Thank you! Great ideas!

01:24:03 Brenda Gonzales: Great and varieties ideas! Thank you!

01:24:06 Andrew Geller: Booklists here >>
<https://blogs.sd38.bc.ca/sd38mathandscience/resources-and-book-lists/>

01:24:08 LA VERNE MITCHELL: Look at the handout for the Math Youtube channel

01:24:09 Cindy Bryant: Great job Janice!

01:24:13 Sheri Morris: Thank you so much!!!!

01:24:13 Stephenia Courtney: Thank you

01:24:14 Jared Campbell: Thank you! This was great!

01:24:14 Michelle Zidner: Thank you so much!!

01:24:14 Rachel Henighan: This was so wonderful and inspiring. Thanks
so much!
01:24:14 Kelly Peters: Thank you so much. This has been amazing!
01:24:15 Nancy Ann Ling: Great Ideas! Thank you!
01:24:15 Kimberly Rusina-Paz: Thank you for sharing!
01:24:15 Tracy Hoskins: Janice-this was awesome! Thanks!!
01:24:15 Donna Saylor: Thank you!!!!!!
01:24:16 Shashidhar Belbase: Thank you very much for this great session !
01:24:18 Marion Goetze: Fantastic presentation! Thanks!
01:24:18 Brittany Hill: Loved this?
01:24:19 Brenda Smith: Wonderful! Yes, inspiring!
01:24:20 Caitlin Key: thank you!
01:24:21 Beth J: thank you!
01:24:21 Debbie Pierce: Thank you!
01:24:21 Karen Walsh Fortin: Thanks!!
01:24:22 Natalie Fawthrop Pooler: thank you
01:24:22 Alden Paye: OH my GOSH!
01:24:22 Bradly Rivera: This was wonderful! Thank you so much!
01:24:22 Jacqueline Colbourne: Thank you
01:24:23 Danielle Grenader: Thank you!
01:24:23 Anita Gumbert: Incredible!
01:24:24 Janet Cuttray: What a great webinar with such great information!
01:24:24 Anne McGlame: Thanks!!
01:24:24 zaynab Abdullah Muhammad: Thank you. Well done.
01:24:25 Genevieve Zetino: thank you
01:24:26 Sarah Dickie: Thank you so much! Truly inspiring!
01:24:26 Elizabeth Wallace: amazing
01:24:27 Daryl Lo: Thank you for sharing
01:24:27 Nonye Obiora: Thank you so much
01:24:27 Maria Reid: Thank you so much!
01:24:27 Erica Gray: Thank you so much! This was a great learning
experience.
01:24:28 Sarah Strunin: tu...very helpful
01:24:28 Marcia Bumbury: Thank you!!
01:24:28 Shawna VanderCook: thank you
01:24:29 Carrie Daniels: Thank you!
01:24:29 Bina Kachwalla: Amazing webinar!! The time went really quickly
01:24:29 Cindy Klages: Thank you for sharing!
01:24:29 Kristin Tiller: Thank you so much for sharing all these amazing
ideas!
01:24:29 Gail Dean: Thank you!
01:24:30 Heather Fairley: Thank you very much. This was excellent
01:24:30 Lorie Huff: Thank you Janice.
01:24:30 Amy Hamlin: Thank you!
01:24:30 Sharon Baldrey: Thank you Janice!!
01:24:30 Jen Betz: Thank you!!
01:24:31 Cindy Earp: This is great. Thank you so much.
01:24:31 Sharon Black: Wow! Very inspiring webinar!! Thank you so much:-)
01:24:31 Victoria Campbell: Thank you very much!
01:24:31 Rachel Konnick: Thank you so much! Loved it!

01:24:32 Galaxy J2 Core: Thank you. Wonderful activities .
01:24:32 Alden Paye: Amazing! I am so inspired!
01:24:32 Padgett Shoemake: Thank you!
01:24:33 Patti McLean: thank you this is one of the best I have been to
01:24:34 Reva Fresina: great ideas, much of which we are working on in
Ontario
01:24:34 Amy Landry: Thank you! Very inspiring!
01:24:34 Miranda Carter: Thank you.
01:24:34 Claudette S: Thank you!
01:24:34 Amparo Torres: Thank you!! Great presentation and great ideas.
01:24:35 Valerie Vanderport: thank you very much!
01:24:35 Kelli Sullivan: wow! wow! wow!
01:24:36 Iesha Costanzo: awesome session, thank you
01:24:36 Katrina Kelsey: THank you!!!
01:24:37 Tonya Gray: Great job! Thank you very much!
01:24:37 Marie Clarke: thank you so many ideas!!
01:24:38 Sara May: Thank You!!
01:24:38 John Sasko: Great! Thanks so much Janice. Love Pacific NW art!!!
01:24:38 Carmen Guzman: Wonderful, I love it
01:24:39 Jennifer Cos: THank you so much. THIS is amazing and inspiring!
01:24:39 Tracy Coleman: Enjoyed the webinar. Thanks!
01:24:40 CHANTAL LARIVIERE: Wonderful Janice!
01:24:42 Dave Hankin: Thank you from Globe, Arizona!
01:24:44 Amy Novoselsky: This was amazing! Thank you so much for spending
your first day of summer break with us!!
01:24:45 Cheryl Berkuta: Thank you! Lots of great ideas!
01:24:46 Marcia Balkin: Amazing! Blessed to be able to work at schools that
let me teach this way.
01:24:48 Debbie Perry: This was very inspiring! Wonderful work! Thank you
for sharing.
01:24:48 Mary France Imperial: Wonderful Presentation! Thank you so much!
Great Ideas
01:24:49 Quianna Watkins: Thanks! I love the Math Studio and would
love to ask my admin about creating one at our school.
01:24:49 Mary Whiteside: thank you! Mary
01:24:50 Mark Phipps: Wonderful presentation. Your students are blessed.
01:24:50 Carrie Zielinski: Thank you...so thought provoking!
01:24:50 Rachelle Broggin: Great job!!!
01:24:52 Clare Nemeth: This was a great session. Loved it.
01:24:52 Kim Thomas: Thank you. Amazing!
01:24:53 Elizabeth Blankenship: great presentation
01:24:54 Mohamed Jamaludeen Thirapusa Mohaideen: Thanks so much! Wonderful !
01:25:00 Jen McQuarrie: Great ideas - thank you.
01:25:03 Reva Fresina: great ideas and building upon our deep learning in
Ontario
01:25:03 Carol Matsumoto: Great seeing you again Janice!
01:25:03 Catherine Bertrand: This was great! Going to use some of the
outdoor ideas
01:25:05 Katherine Turcios:
<https://www.youtube.com/channel/UCsIiPDZDbc9Hj1oX-w20VdQ>

01:25:05 Stephanie Rickert: Thank you - lots to think about and explore for my kinder classroom.

01:25:05 Erica Thompson: Appreciate it!

01:25:17 Lori Garza: Thanks for your great ideas

01:25:21 Daniel Irving: Thank you for this wonderful presentation!

01:25:23 LA VERNE MITCHELL: Awesome presentation!

01:25:26 Leah Watson-Rodgers: Thank you so much! Wonderful. Can't wait to re-watch this session. This makes math fun so kids actually want to do it!

01:25:33 WARASABON DOMINIKUS: thankyou Ms. Janice. Wonderfull. We all do math all the time.

01:25:37 Lisa Brinkley: thank you so much for an awesome webinar.

01:25:38 Andrea: thank you Janice! wonderful webinar full of great ideas!

01:25:38 Janet Cuttray: Thank you

01:25:40 Gina Sullivan: Love the math and art connections as well as all the things with circles. Thank you very much.

01:25:43 Cynthia Wilson: WOW!!!! Thank YOU so much! Enjoyed seeing all the examples ! Love to see the connections to our world that math is everywhere!

01:25:46 Amy Tipton: was there a survey to fill out for certificates I missed first few mins

01:25:46 Rolando II Delos Reyes: Thank you for these ideas for kids! PH

01:25:48 Proteone Samuels: Great Job Ms. Janice Thank so much!!!!

01:25:55 Maria Reid: So many wonderful ideas!

01:25:55 Margaret Rettele: Thank you for sharing!

01:26:00 Kathleen Morris: Thank you for an outstanding, thoughtful presentation, with many ideas and things to think about and take away...so many ideas to think about, process, and transfer to my teachers and students!! Infinitely grateful!!

01:26:00 Glenda Hollie: This was a very enlightening presentation about making connections with mathematics. Thanks for sharing such amazing ideas.

01:26:06 Inger Murphy: Thank you! Fantastic, inspiring webinar! Love it!

01:26:07 Linda Pritchett: Thank you for sharing your wonderful work!

01:26:10 Nina Botsford: Thank you for sharing! You are so dedicated!

01:26:16 Mary Dahn: Thank you!

01:26:25 Michelle Rahian: such a great webinar. I love your book Reggio inspired mathematics!

01:26:26 Juli Lenzotti: So excited to learn about the Studio experience! Thanks so much for sharing--great session!

01:26:44 Karen Walsh Fortin: Very Inspiring!! Thank you!

01:26:50 Marta Espinoza: Thank you so much excellent materials !!!

01:27:11 Sara Brannan: Thank you for sharing your work. Thank you for sharing all of the great resources!

01:27:26 Carol Matsumoto: Thank you Chonda and Dave for supporting.

01:27:26 SHARON VEGA: Thank you! I was blow away. Lots of wonderful ideas.

01:27:38 Olga Kosheleva: Thank you!

01:27:52 Donna Saylor: YES!

01:27:52 LeAnna Deveaux-Miller: THANK YOU..EXCELLENT

01:27:52 Laura Callen: Thank you so much!!

01:27:53 Katherine Turcios: Thanks Janice!

01:27:53 Chantal Korabik: Thank you so much!!

01:27:53 Vicki Pace: Thank you...

01:27:53 Kimberly Gray: Thank you! That was great! Very informative.

01:27:55 Jennifer Lewicki: Fabulous--thank you.

01:27:56 Sheri Morris: AMAZING!!

01:28:02 Brittany Hill: Thank you!

01:28:13 Veruschka Thomason: Thanks so much!

01:28:13 Cindy Poore: Wonderful session!

01:28:13 Shawnee Newsome: Thank you for so much wonderful information!

01:28:16 Katherine Turcios: Thank you nctm!

01:28:18 Abigail Santiago: Thank you!!!

01:28:26 Rita Shamrock: Thank you for all the ideas

01:28:29 Lisa Aldous: Thank you! I'm very motivated to try out some of those ideas next year!

01:28:31 Sheryl Joy Aloag: Thankyou

01:28:34 Rolando II Delos Reyes: Thank you NCTM PH

01:28:35 Arnold John Bulanadi: Thank you!

01:28:35 Lisa Harrower: Thank you! So many ideas that one can use within the classroom!

01:28:36 Kellie Smith: Thank you!

01:28:39 Debbie Nelson: Fabulous session. So good. Thank you

01:28:47 Mary France Imperial: Thank you so much!

01:28:49 Tamara Shand: It really was superb. I wish I could visit that gorgeous studio.

01:28:51 LaTanya Jordan-Winters: Thank you!

01:28:52 ELENA GAMOVA: Thank you!

01:29:10 TaNessa Robinson: Thank you for a great workshop!! I cant wait to share with co-workers!

01:29:18 Jet Yeung: Thank you very much

01:29:21 Terri Brown: Thanks, this was wonderful!

01:29:21 TaNessa Robinson: Thank you NCTM!

01:29:26 Monique Gordon: Loved it! Thank you

01:29:29 Marcia Balkin: I can't wait to incorporate these idea in my classroom! Thank you for sharing on your first day of summer!

01:29:29 Margaret Schuster: Thank you for sharing so many Great ideas!

01:29:29 Tamara Shand: Yes, Thank you NCTM!

01:29:29 Clare Nemeth: Thank you!!!!

01:29:30 Shawneen Petersen: Wonderful!

01:29:31 Stephanie Brown: Thank you ! Loved all the art/math ideas

01:29:32 Ana O'Neal: thank you!!

01:29:33 Amy Tipton: thank you!

01:29:35 Terri McCarthy: Great job, thank you very much!

01:29:37 Nina Botsford: Thank you!

01:29:40 Maria Zavala: Thank you again, Janice!

01:29:43 Sabrina McCabe: Thank you!

01:29:44 Cindy Klages: Loved it! Very inspirational!

01:29:46 Maria Reid: Thank you!

01:29:48 Lisa Rossiter-Thornton: Thank you so much!! :)

01:29:49 Medina Nikezic: Thank you!

01:29:49 Linda Pritchett: Thank you!

01:29:50 Iesha Costanzo: Thank you so much

01:29:56 Cindi Roberts: Thank you
01:30:04 Stephanie Rish: thank you. great ideas =)
01:30:07 Cristy Holtzclaw: thank you!!♡♡
01:30:11 Sheila Vance: Thanks so much for this inspiration!
01:30:14 Carol Matsumoto: Thank you also to Faith.
01:30:15 Lisa Lambuth: WOW! this really is making me think. I love all of
these ideas. Thank you!!!
01:30:16 Maria Reid: Thanks
01:30:16 Valerie Clay: The wonderful things you shared confirm there is so
much more work to do?
01:30:19 Glenda Escasinas: Thank you1
01:30:28 Leah Watson-Rodgers: Thank you Janice and NCTM
01:30:29 Ann Swierzbin: Thank you!