

00:24:52 Cindy Bryant: Good evening from Springfield, MO  
00:24:54 Emily Kavanagh: Hi from Columbia MD  
00:24:56 Leslie Texas: Hi from Louisville, KY  
00:25:03 Michael Lanstrum: Hello from Cleveland, Ohio  
00:25:08 Tanya Landry: Greetings from Baton Rouge!  
00:25:08 ELLA CABRERA: Hello From Philippines  
00:25:09 Catherine Bronikowski: Hello from Milwaukee, WI  
00:25:09 Jamie Cook: hi from Mesa, AZ  
00:25:13 Jonathan Marcovitz: Greetings from Fort Lauderdale  
00:25:13 Rachel White: Hello from Southern Maine.  
00:25:17 Olga Kosheleva: Hello from El Paso, TX  
00:25:22 Yvette Fujimoto: hello from Washington  
00:25:23 Jennifer Phipps: Hi from KY  
00:25:23 Ebony Baker: Hi from Chesterfield, Va  
00:25:24 Colleen Feller: Hello from Minnesota  
00:25:24 Esther Winikoff: hello from Baltimore!  
00:25:25 Christina Siow Young: Hi from Monrovia, CA  
00:25:25 MEI OH: Hi, from Marietta, GA  
00:25:26 Beth Kobett: Beth from Eldersburg, MD  
00:25:26 Elizabeth Allen: Hello from Falls Church, VA  
00:25:27 Flora Wright: Hi from Salisbury, Md  
00:25:27 Catherine Anderson: hello from Virginia Beach, VA  
00:25:28 Patricia Padgett: Hey from Florida  
00:25:28 Kathy Felt: Hi from western Illinois  
00:25:28 Maria Timmerman: Maria Timmerman, Charlottesville, Va  
00:25:28 Erica Krick: Gilbert, AZ  
00:25:28 Towanda Jackson: Hello from Mooresville, NC  
00:25:29 Rachel Freid: Hi from Ruckersville, VA  
00:25:29 Tiffany Gallagher: Hello from New Jersey  
00:25:29 Jamie Ward: Hello from Boone, NC  
00:25:29 Jeanne Simpson: Good evening from Decatur, Alabama  
00:25:30 Sarah Dickie: Sarah From PEI Canada  
00:25:30 Chasity Bolch: Newton, NC  
00:25:30 Aura Fortaleza: Hi from Charles County MD  
00:25:30 Donna Gessner: Hi! This is Donna from VA  
00:25:32 Lybrya Kebreab: Hi! Lybrya from Florida  
00:25:32 Laura Partridge: Hi From Alexandria, VA  
00:25:32 India Puch: India from South Carolina  
00:25:32 Juli Lenzotti: Greetings from Denver, Colorado!  
00:25:33 Arnold John Bulanadi: helio from Jacksonville, FL  
00:25:33 Emily Tietjen: Hello from CA!  
00:25:34 Anna VonDoom: Oak Harbor, WA  
00:25:35 Saul Gonzalez: Howdy from Bakersfield, CA.  
00:25:35 Rita Shamrock: Hi Rita from Senoia, GA  
00:25:35 Laurie Walker: Hello from Northampton, MA  
00:25:36 Rebecca Clements: Hi from Texas  
00:25:36 DeAnn Huinker: Hi Everyone, from Milwaukee. So looking forward to  
tonight's session  
00:25:37 Laurie James: Aloha from Oahu  
00:25:37 Ashley Cusick: Hello from Northern VA!

00:25:37 Rhonda Rampley: Hello from Raleigh, NC  
00:25:37 Daniel Irving: Hello from North Providence, RI!  
00:25:39 Nely Ara-is: Hi, from Norfolk VA  
00:25:39 Kelli Chambers: Kelli Chambers Murfreesboro TN  
00:25:40 Shauna Brown: hi Brooklyn ny  
00:25:40 Bathsheba Mohanraj: Sheba ,Phoenix-AZ  
00:25:41 Erika Levrault: Hello from Illinois  
00:25:41 Kristen Power: Hello from Spring TX  
00:25:41 Tina Hill: Howdy! from northeast TN  
00:25:42 Lisa Owens: Hello from Cincinnati, Ohio  
00:25:43 Mary Jones: Statesboro, GA  
00:25:43 Mark Vasicek: Where are you from?  
00:25:45 Maresha Johnson: Hello from Lancaster,CA  
00:25:45 dana dulzo: hello, dana from novi mi  
00:25:46 Joanna Barth-Werb: Hello from NYC  
00:25:46 Kristin Harbour: Hello from Columbia, SC  
00:25:47 Jacqueline Booker: Los Angeles, CA  
00:25:48 Angie Schmidt: Angie from Sauk City, WI  
00:25:48 Ron Napper: Murfreesboro TN  
00:25:49 Claudia Sever: Hi, Claudia Sever from Wellington, FL  
00:25:49 Amy Nordhoff: Salisbury, MD  
00:25:51 Debi Csulak: Greetings from the heat of Bakersfield, CA  
00:25:51 REGINA KELLER: hello from Tulsa, OK  
00:25:51 Laura Smyczek: Hello from Wisconsin  
00:25:52 Janice Holland: Hello from Janice Holland in Suffolk, VA  
00:25:53 Jaclyn Murray: Hi from Cumming, GA  
00:25:54 Grace Nina Monterde: Philippines  
00:25:56 Lorie Huff: Hello from Fayetteville, AR  
00:25:56 Teresa Bulanda: Hello from Connecticut!  
00:25:57 Jorge Veloso: Hi from Angola.  
00:25:58 Kathy Rubendall: Hello from New York, NY  
00:25:58 Lisa Williamson: Hello from Seattle WA  
00:25:59 Abdul Razak Othman: Abdul razak from Malaysia  
00:26:00 Dewey Gottlieb: Aloha from Hawaii!  
00:26:04 Fideliz Mae Magno: Good morning from Philippines!!  
00:26:05 Sharon Black-MacKinnon: Hello from New Brunswick Canada  
00:26:05 Delores Rushing: Delores Rushing Washington, DC  
00:26:09 Lance Brauchla: hello from IN  
00:26:12 Brianna Longwill: Brianna Longwill from Iowa  
00:26:16 amanda Helgerson: here from Mass!  
00:26:22 Carole Bamford: Hi from Montreal, Canada  
00:26:23 Anne Feeney: hello from Barnegat, NJ  
00:26:25 Rebecca Ronk: Hello from New York  
00:26:25 Faith Peddie: Hi from Reston, VA!  
00:26:27 linda fulmore: greetings from cave creek az 111 degrees  
00:26:28 Kay Wohlhuter: Hi from Duluth, MN  
00:26:30 Denise Smith: Manitoba, Canada  
00:26:32 Jet Yeung: Hello Everyone--Jet from Henderson Nevada  
00:26:33 Faith Peddie: Hi from Reston, VA!

00:26:49 Noe Eugenio: Hello from the Philippines  
00:26:52 Muna Alwahaibi: hi, from Oman (Arab gulf country)  
00:26:54 Kimberly Brown: Hello from NW Arkansas  
00:26:54 Aura Fortaleza: Hi Philippines!  
00:26:59 Shelly Allen: Shelly from Augusta, GA  
00:27:04 PALOMA CARRERA-ANDINO: hi from El Paso, Tx  
00:27:07 Lisa Ashe: Lisa Ashe, NC  
00:27:10 Angela Snyder: From Indiana  
00:27:13 Jeff Shih: Hi from Las Vegas, NV!  
00:27:14 Erin Meunier: Hi from Northern Virginia!  
00:27:16 Pamela Goodwin: Hi from NJ  
00:27:17 Tammy Moynihan: Hello, Tammy from Oconto Falls, WI  
00:27:17 Barbara Hill: Barbara Hill North Carolina  
00:27:18 amy slaughter: Portland, Oregon  
00:27:19 Susan Kosmala: Susan from Portland OR  
00:27:19 Jackie Murawska: Hi! Jackie from Chicago!  
00:27:22 Fred Rectanus: Portland the one in Oregon  
00:27:23 Elizabeth Hahn: Washington Illinois  
00:27:27 Stacey Miller: Stacey from Saint Louis, MO  
00:27:27 Brenda Geier: Hello from Holmen, Wisconsin!  
00:27:27 Dave Hankin: Hello again from Globe, Arizona!  
00:27:27 Lloyd Baker: Hello Buena Park, CA  
00:27:27 Rachell Scott: Hi, from Maryland!  
00:27:30 Sara Korman: Hello from Calgary, Alberta, Canada!  
00:27:30 Beth Seyler: Hello from PA  
00:27:31 Bonnie Angel: Hello Shelly from Augusta, GA this is Bonnie from  
north Georgia!  
00:27:31 Kelly Sotsky: Hi from Massachusetts!  
00:27:33 LeAnna Deveaux-Miller: Hello: From New Providence, The Bahamas  
00:27:39 Mariah Sandoval: Hello from Orlando, Florida!  
00:27:41 Alison Walker: Alison Walker Darien, Georgia  
00:27:43 Cricket McClure: Hello from Louisville, KY!  
00:27:48 Rachel West: Hi from Midlothian, Virginia!  
00:27:58 Yvette Martinez: Hello from San Antonio, TX  
00:28:01 Anna Elizondo: Hi from Tucson, AZ!  
00:28:01 Jennifer Knudsen: hi from Austin Texas  
00:28:02 Barbara Lambert: from Columbus, Georgia  
00:28:03 Dorlisa Johnson: Dorlisa Johnson from Clayton, NC  
00:28:05 Farshid Safi: Hi everyone from Orlando, FL  
00:28:10 Lybrya Kebreab: Woohoo Go Dr. Bush!!!!  
00:28:13 JAN SANDS: From Jan Sands Oklahoma City, OK  
00:28:18 Karen Karp: Karen Karp - Louisville, KY  
00:28:21 Teresa Lara-Meloy: Hiya George!!! :D  
00:28:31 Kellie Petrick: Hello from Portland, Oregon!  
00:28:36 Andrea Chew: Hi from Spotsylvania, VA  
00:28:36 Dr. Yankey: Ga  
00:28:39 Nicole Rigelman: Hello from Portland, OR  
00:28:41 Barb Dougherty: Aloha, from Hawaii-Barb dougherty  
00:28:43 Rolando II Delos Reyes: Hello from Manila Philippines PHPHPH  
00:28:44 obiageli Udeme: obiageli udeme Maryla

00:28:46 Trena Wilkerson: Welcome everyone! From Waco, TX

00:28:49 Dr. Yankey: GA

00:28:55 Daniel Edelen: Hello, Dr. Karp! Daniel Edelen Here, University of Central Florida.

00:29:10 Margie Acabal: Hello from Cebu Philippines

00:29:19 Shawn Towle: Hello from Portland, Maine

00:29:29 Erin Meunier: teacher and PhD student

00:29:30 Chasity Bolch: classroom teacher

00:29:34 Shawn Towle: classroom teacher

00:29:37 Yvette Martinez: classroom teacher

00:29:37 Amara Alexander: K-5 STEM Teacher

00:29:37 Rachel White: Teacher of grade 8 math

00:29:38 Chandra Brandel: 6th Math teacher

00:29:38 Laura Partridge: Math coach

00:29:38 Donna Gessner: classroom teacher

00:29:38 Jennifer Outzs: classroom teacher - 6th grade math

00:29:38 Shelly Biggin: Wisconsin Title I

00:29:38 Tiffany Gallagher: K-5 Math Specialist

00:29:39 Adrienne Burns: Middle school math coach and interventionist

00:29:39 Lybrya Kebreab: Lybrya, doc student UCF Go Knights!!

00:29:39 Ashley Cusick: Math 6 special education teacher

00:29:39 Kelly Sotsky: Teacher the Deaf

00:29:39 Kathy Felt: Kathy Felt 8th grade math and Algebra 1 teacher

00:29:40 Kelli Chambers: classroom teachers

00:29:40 Lisa Owens: 6th grade math classroom teacher

00:29:40 Margie Acabal: classroom teacher

00:29:41 Angie Schmidt: Angie Schmidt 7th grade teacher

00:29:41 Joanna Barth-Werb: classroom teacher

00:29:41 Katie Johnson: District Math Coordinator

00:29:41 Jaidin Tonneson: I am an 8th-grade math and Algebra teacher!

00:29:41 Lorie Huff: District Math Coordinator

00:29:41 Lisa Williamson: 8th Grade Math Teacher

00:29:42 Shay Belair: Hi Shay Belair 7th grade math teacher from Connecticut

00:29:42 Jennifer Knudsen: mall

00:29:42 Brenda Geier: Elementary Math Coach

00:29:42 amy slaughter: Middle school Assistant Principal

00:29:42 Siddhi Desai: Hi everyone! Phd student from University of Central Florida

00:29:42 Teresa Lara-Meloy: math ed designer!

00:29:42 Noe Eugenio: classroom teacher

00:29:43 dana dulzo: Dana mathematics teacher at an alternative high school

00:29:43 Colleen Feller: Hi. I am a classroom teacher

00:29:43 Barbara Hill: Barbara Hill- Math Coach

00:29:43 Elizabeth Allen: Special education teacher

00:29:43 Yvette Fujimoto: math teacher

00:29:43 Jennifer Wall: Administrator of Mathematics

00:29:43 Kristina Whiting: Kristina, Madison, WI: Math Teacher Leader

00:29:43 Rebecca Hamlet: classroom teachers

00:29:43 Dave Hankin: 6th Grade Math -  
 00:29:43 amanda Helgerson: 8th grade math teacher in Mass  
 00:29:44 Jamie Cook: classroom teacher  
 00:29:44 Kristen Faust: Kristen from Happy Valley, OR, Instructional Coach  
 6-12 math  
 00:29:44 Kathryn Versace: hello from Alabama. I'm a classroom teacher  
 00:29:44 Polly Wozny: Hello! 8th grade math classroom teacher  
 00:29:44 Melinda campbell: Melinda Campbell- Science teacher  
 00:29:44 Angelique Rivera: Hello from Brooklyn, NY - AP  
 00:29:44 Laura Smyczek: 8th grade math/algebra teacher  
 00:29:45 Rachel West: middle school math teacher  
 00:29:45 Paige Kavanaugh: 7th grade teacher from PA  
 00:29:45 Sara Korman: classroom teacher and department head/learning  
 leader  
 00:29:45 Erika Levrault: Classroom teacher and facilitator  
 00:29:45 India Puch: India, Middle Math Teacher  
 00:29:46 Lloyd Baker: Teacher  
 00:29:46 Luann cline: Classroom teacher  
 00:29:46 Leslie Texas: Consultant  
 00:29:46 Fideliz Mae Magno: Classroom Teacher  
 00:29:46 Andrea Chew: Special Ed classroom teacher  
 00:29:46 Nicole Rigelman: Mathematics Teacher Educator  
 00:29:46 Ebony Baker: classroom teacher  
 00:29:46 MEI OH: classroom teacher  
 00:29:46 Jaclyn Murray: Assistant Professor of Science & Engineering  
 Education  
 00:29:46 Melynee Naegele: I am a direct instruction 6-8th grade math  
 teacher  
 00:29:46 Julie Puzon: Instructional coach  
 00:29:46 Kendra Edwards: Instructional Specialist  
 00:29:47 Stacey Miller: Middle School Math Teacher  
 00:29:47 Gail Dean: Gail Dean retired teacher  
 00:29:47 Lori Mallett: Classroom teacher  
 00:29:47 Millie Norwood: Millie Norwood, 7th Grade Math  
 00:29:47 Debi Csulak: 7th - 8th grade Math teacher  
 00:29:47 Maria Timmerman: university professor  
 00:29:47 fran V.: Ontario Canada, Instructional math coach  
 00:29:48 Jennifer Phipps: Interventionist  
 00:29:48 Joseph Vignolini: joe Vignolini jk-12 math chair  
 00:29:48 Jamie Ward: Grade 4th - 8th math intervention  
 00:29:48 Ron Napper: classroom teacher  
 00:29:48 Lily Zandnia: Lily Zandnia, Middle School Math Specialist for  
 Chicago Public Schools  
 00:29:48 Pam Crombar: Math 8 educator  
 00:29:49 Jeanne Simpson: 6-12 regional math specialist  
 00:29:50 Catherine Bronikowski: Math Dept Chair/secondary math and IT  
 teacher  
 00:29:50 Charla Walker: Charla Walker Math teacher 6th  
 00:29:50 Karin Ghent: Karin Ghent Hope Mills NC 6-9 Math Teachers  
 00:29:50 Rebecca Clements: classroom teacher/school administrator as

needed

00:29:50 Sharon Black-MacKinnon: teacher K-12  
00:29:51 kelsey anselmi: Math Coach from Frisco, TX  
00:29:51 Angela Snyder: teacher and department chair  
00:29:51 Rolando II Delos Reyes: school counselor  
00:29:51 Abdul Razak Othman: Teacher Educator  
00:29:51 Emily Tietjen: Math Coordinator  
00:29:51 Mariah Sandoval: Undergrad student  
00:29:51 Brianna Longwill: Middle School Math Intervention  
00:29:52 Jonathan Marcovitz: ESE Teacher  
00:29:52 Amanda Brown: Hello! Math teacher in Boulder Co  
00:29:52 Towanda Jackson: Teacher  
00:29:52 Aura Fortaleza: I am From MD a Math classroomteacher  
00:29:52 Christina Siow Young: 7th grade math teacher  
00:29:53 Saul Gonzalez: HS Math Teacher  
00:29:53 Crystal Dean: 6th grade teacher from NC  
00:29:54 LeAnna Deveaux-Miller: Classroom Teacher: Coordinator  
00:29:54 Laura Hapgood: Grade 7 Math Teacher  
00:29:54 David Graf: Hi, Special ed teacher 7th grade  
00:29:54 Kristin Harbour: UofSC faculty  
00:29:54 Julie Dahlman: Middle School Math teacher  
00:29:54 Lisa Genduso: Instructional coach  
00:29:54 Tanya Landry: Teacher 7 - 12 in school for dyslexic students  
00:29:55 Robin Williams: Hello from Maryland, MS Math Teacher and Dept Chair  
00:29:55 Amy Dowdle: EC Middle School teacher from NC  
00:29:56 Melissa Edgerton: Instructional coach  
00:29:56 Jackie Murawska: Instructional Coach  
00:29:56 Shauna Brown: classroom teacher  
00:29:56 Anna Elizondo: math teacher  
00:29:57 Olivia Cooper: Assistant Principal  
00:29:57 Louis Cicero: Math1 teacher  
00:29:57 Tiffany Britt: I'm a special education teacher in 8th grade  
00:29:57 amanda Helgerson: along with teacher- 6-12 curricular chair  
and 8th grade team leader  
00:29:57 Sarah Dickie: Instructional coach  
00:29:57 Eva Gomez: algebra 1 teacher  
00:29:58 Amy Brown: Instructional Specialist  
00:29:58 Robin Schwartz: coach/tutor/prof/ field supervisor NYC  
00:29:58 Mary Jones: Honors Math Teacher grades 6-8  
00:29:59 Juli Lenzotti: University faculty  
00:30:00 Deborah Farmer: 6th grade teacher  
00:30:00 Olga Kosheleva: I am Associate Professor, Department of Teacher  
Education  
00:30:00 Vicki Hamdorf: Vicki Hamdorf, 6-12 Mathematics Teacher, Curriculu,  
00:30:01 Konnie Guthrie: Hello from Las Vegas. 6th grade math tezcher.  
00:30:01 Flora Wright: Instructional Assistant  
00:30:02 Lybrya Kebreab: Very excited to be around classroom teachers again!  
00:30:02 Grace Nina Monterde: middle school teacher  
00:30:02 Delores Rushing: Delores Rushing, Instructional Coach  
00:30:04 Jennifer Knudsen: math eddesigner

00:30:05 Rachell Scott: 8th grade math

00:30:06 ANALINE BAUTISTA: classroom teacher, 5th grade

00:30:07 Mary Ann Bulalacao: Good evening everyone!

00:30:07 Jorge Veloso: Jorge Dias Veloso. Dean of the Higher Pedagogical School of Lunda-Norte, Angola.

00:30:08 Koyuki Fritchman: Currently in Masters program to become a secondary MATH teacher.

00:30:09 Jennie Brown: Hi from Montgomery, Al. District Mathematics Specialist

00:30:10 Robin Harbour: math 7 teacher, math intervention teacher, Title I support teacher

00:30:13 Rommel Daz: Rommel Daz, SHS Math Teacher

00:30:14 Rolando II Delos Reyes: instructional coach

00:30:15 Laurie Walker: 7/8 Classroom math teacher

00:30:16 Lance Brauchla: middle school teacher

00:30:16 Hsiao-Ting Chiou: 8th grade teacher

00:30:19 Carole Bamford: Math/Special Ed teacher

00:30:20 Farshid Safi: Teacher Educator and Learner

00:30:22 Gretchen Mae Empuesto: Hi all. I am Gretchen from the Philippine. 12th grade teacher

00:30:24 Katy Toth: Ernie from public school (6th grade math)

00:30:28 Pamela Goodwin: Middle School Math Teacher - Pre Algebra and Algebra 1

00:30:28 Susan Bardenhagen: Manassas, Virginia in Triple H- Hazy, Hot, & Humid!

00:30:30 ELLA CABRERA: classroom teacher

00:30:39 obiageli Udeme: O.D.Udeme. Middle school Math teacher

00:30:47 Cindy Bryant: Please change your chat setting to all panelists and attendees.

00:30:48 Archita Vaghasiya: Archita from Boston, MA

00:30:51 Barbara Mayden: Middle School Math Department Lead and teach 8th and Algebra 1

00:30:58 Chad Hale: hello from new carlise ohio

00:31:00 Lybrya Kebreab: Yay! Dr. Jackson & Dr. Roy!!! And nice to meet you Dr. Milou:)

00:31:13 Joyce Meier: Hello from Chicagoland. I'm a middle school math teacher.

00:31:29 Angelita Beltran: Waukegan, IL

00:31:33 Kenneth Helms: Kenneth Helms Middle School Math Arkadelphia Arkansas

00:31:43 Erin Craddock: Erin Craddock, Specialized Instructional Facilitator of Mathematics K-8, Loudoun County Public Schools, Virginia

00:32:29 Farshid Safi: Thank you all - Dr. Bush, Jackson, Roy, and Milou - for this wonderful and influential book in the Catalyzing Change series!

00:32:51 PATRICK GUERRA: Hi good morning from Philippines

00:32:52 norma gordon: District Mathematics Coach and Adjunct Prop math methods @normabgordon (twitter)

00:32:52 Beth Kobett: I second @Farshid!

00:32:59 Jeanne Simpson: I received my copy of the middle school book today. I can't wait to read it!

00:32:59 Cindy Bryant: Please change your chat setting to All panelists and attendees.

00:33:13 Jennifer Kissane: Glen Ellyn, IL

00:33:31 Cathery Yeh: What an exceptional group of mathematics educators, leaders, and writers on this team!! Thank you for this wonderful contribution!!

00:33:45 amanda Helgerson: build relationships first!

00:33:46 Robin Harbour: using manipulatives and games

00:33:51 Erin Meunier: group work and fun games/activities

00:33:53 Ashley Cusick: growth mindset!

00:33:54 Laura Partridge: students collaborating together

00:33:54 Kathy Felt: Get them talking about math!

00:33:54 Robin Harbour: choice boards

00:33:54 Tina Mazzacane: build relationships in the classroom

00:33:55 Kendra Edwards: Math routines

00:33:55 Sarah Mastrull: Use hands on activities whenever possible.

00:33:55 Aura Fortaleza: see- think- wonder

00:33:56 Mark Vasicek: Link 4 sheets

00:33:57 norma gordon: Routines - such as number talks access for all

00:33:58 Abigail Bates: math talks

00:33:58 Christina Siow Young: explore activities

00:33:58 Laura Smyczek: Growth mindset

00:33:58 Katie Grunow: Low Floor-High Ceiling

00:33:59 Lisa Williamson: Structured talk

00:33:59 Katie Johnson: incorporate lots of discussion and collaboration

00:33:59 Sarah Omura: games

00:33:59 Colleen Feller: Creative thinking is celebrated. There is more than one way to look at a problem and solve it

00:33:59 Barbara Mayden: Open Middle Math Problems going from level A-D

00:34:00 Rebecca Hamlet: Incorporate interest

00:34:00 Erin Craddock: Student interaction!

00:34:00 Jennifer Outzs: 5 practices

00:34:00 Kristen Faust: Sense making

00:34:01 Deborah Pickett: Low floor high ceiling tasks

00:34:01 Towanda Jackson: notice/wonder

00:34:01 Donna Gessner: scaffolding

00:34:02 Abigail Bates: notice and wonder

00:34:02 Rachel White: Growth mindset

00:34:02 Jessica Parker: Choice boards

00:34:03 Tiffany Gallagher: Create a relationship with each student

00:34:03 Christina Siow Young: power of yet

00:34:03 Kelly Sotsky: real-life application - field trip to connect

00:34:04 Lori Mallett: Notice/Wonder

00:34:04 Jaidin Tonneson: Rewarding students for a growth mindset by using a ticket system!

00:34:04 Michelle Hawley: Student ownership

00:34:04 Bonnie Angel: allowing students to talk to each other

00:34:04 Anna Digby: Focusing on growth mindset and gamification

00:34:04 Emily Kavanagh: Ice breakers



00:34:05 Lybrya Kebreab: Tell me how you know?  
 00:34:05 Lloyd Baker: Graphic organizers games  
 00:34:06 Yvette Martinez: scaffold use games  
 00:34:07 Lisa Rogers: Focus on student discourse  
 00:34:07 Vicki Hamdorf: Students work in teams.  
 00:34:07 Kathy Rubendall: multiple entry points  
 00:34:07 Amy Dowdle: CONCRETE  
 00:34:07 David Graf: games, tools  
 00:34:08 kelsey anselmi: open middle  
 00:34:08 Rolando II Delos Reyes: introduce lives of mathematicians  
 00:34:08 Chris Engledowl: Early and frequent success  
 00:34:08 dana dulzo: growth mindset to start year  
 00:34:08 Olga Kosheleva: using manipulatives (including virtual)  
 00:34:09 Jeanne Simpson: Number Talks  
 00:34:09 Rebecca Ronk: building relationships, models and minipulatives,  
 growth mindset  
 00:34:09 Kristen Faust: my favorite no  
 00:34:09 Lori Mallett: Which One Doesn't Belong?  
 00:34:09 Andrea Chew: Routine  
 00:34:09 Erika Levrault: Connections to students, low floor/high ceiling  
 00:34:10 Lisa Genduso: real world application  
 00:34:10 Amara Alexander: games  
 00:34:10 Chandra Brandel: build relationships, incorporate art, music  
 and theater  
 00:34:11 Jennifer Wall: Personal response activities  
 00:34:11 Shay Belair: Growth mindset, routines, make mistakes fun  
 00:34:12 Maggie McHugh: Social Justice and Authentic Connections  
 00:34:12 Jennifer Knudsen: engage students in the disciplinary  
 00:34:12 Virginia Yuhas: Make a connection with all students by asking them  
 about themselves  
 00:34:14 Mark Vasicek: foldables  
 00:34:14 Pam Crombar: Investigations to discover  
 00:34:15 Mark Simpson: making math contextual, math math matter to them  
 00:34:15 Brenda Geier: 3 act tasks  
 00:34:15 Paige Kavanaugh: Connections of previous work they are good  
 at  
 00:34:15 Deborah Farmer: get to know my students and their learning styles  
 00:34:15 Nicole Rigelman: Faithful models for math concepts  
 00:34:16 Anna VonDoom: Assess each standard separately to identify  
 strengths and weaknesses  
 00:34:16 MEI OH: Visual Math  
 00:34:17 Melynee Naegele: Community  
 00:34:17 Margie Acabal: group collaboration  
 00:34:17 Konnie Guthrie: growth mindset and teaching for understanding not  
 just doing  
 00:34:18 Lybrya Kebreab: Math + art  
 00:34:18 Mark Koester: Growth mindset, number talks  
 00:34:19 Ebony Baker: routines and games  
 00:34:21 Jeffrey Mashbitz: NOTICE/WONDER  
 00:34:21 Amy Brown: Goal centered

00:34:22 Sara Korman: hands on projects, challenging puzzles, real-world connections

00:34:23 Emily Kavanagh: Visuals

00:34:24 Rommel Daz: problem base inquiry

00:34:24 Lisa Genduso: Technology use

00:34:24 Chasity Bolch: differentiation to meet students where they are at

00:34:25 norma gordon: Low floor-high ceilings PLUS wide walls and many doors!

00:34:25 Shay Belair: number talks

00:34:27 Sharon Black-MacKinnon: growth mindset, routines, notice and wonders, games, manips, student choice

00:34:27 Vicki Hamdorf: Games, manipulative, Youcubed

00:34:27 dorothy Groover: learning styles

00:34:27 David Graf: technology, collaboration

00:34:28 Jorge Veloso: culture

00:34:28 Kathy Freeman: Building context

00:34:29 Lori Mallett: Complex Instruction

00:34:30 Jeffrey Mashbitz: 3 Act Tasks (problem based)

00:34:30 Rachell Scott: think pair share

00:34:30 Millie Norwood: Growth Mindset

00:34:31 Polly Kimminau: Opening up at lunch for tutoring or relearning/redoing assessments

00:34:31 Jennifer Outzs: Which one doesn't belong

00:34:32 Rolando II Delos Reyes: inquiry learning

00:34:32 Nicole Rigelman: Problems worth solving

00:34:32 Kristen Faust: Rough draft thinking

00:34:33 Gail Dean: Choices in small group/independent/small enrichment

00:34:33 George Litman: Treating every student as if they were a 'mathematician'.

00:34:34 Lori Mallett: Problem Based Tasks

00:34:34 Farshid Safi: Humanizing Math Education and Valuing the Brilliance of Each/Every Student

00:34:34 Maggie McHugh: Focus on Math Identity

00:34:37 Lybrya Kebreab: I care about them genuinely

00:34:38 Dave Hankin: Discussions

00:34:38 Deniz Çakır: ice breakers

00:34:38 Maria Timmerman: multiple representation

00:34:39 Kathy Freeman: Contexts for Learning

00:34:39 Archita Vaghasiya: math story telling

00:34:39 April Thompson: parent engagement

00:34:40 Chandra Brandel: humor and challenge

00:34:40 dana dulzo: cross curricular units with social studies for graph interpretation

00:34:42 Angela Snyder: notice and wonder, growth mindset, individual goal setting and monitoring

00:34:42 Mark Simpson: I second the 3 Acts Math Tasks

00:34:43 Jennifer Knudsen: disciplinary practice of argumentation—it's joyful

00:34:47 Rolando II Delos Reyes: math agency

00:34:49 Maggie McHugh: Open Middle problems

00:34:50 Kimberly Brown: what is different  
00:34:51 Jorge Veloso: intangible cultural heritage.  
00:34:53 Mark Vasicek: visualize math  
00:35:25 D Naka: Vnps collaborative problem solving  
00:35:25 Delores Rushing: Delores Rushing Math through reading and science  
00:37:07 Sreevelmurugan Vamadevan: Sreevelmurugan from Miami,Az  
00:38:15 Nesia Bamfield: Good night all. Nesia from Guyana  
00:38:18 Dave Hankin: Hello again from Globe, AZ  
00:38:19 Deanna Moreau: Hi everyone!!!!  
00:38:26 Beth Kobett: For more information about the key recommendations, check out these resources: Catalyzing Change books  
00:38:35 Mohamed T: Hi This is Mohamed from CT  
00:38:57 Anna Ingiosi: Hi!  
00:39:12 Trena Wilkerson: Resources at [www.nctm.org/change](http://www.nctm.org/change)  
00:39:13 DeAnn Huinker: Here's the link to all the books:  
[www.nctm.org/change](http://www.nctm.org/change)  
00:40:14 DeAnn Huinker: The recommendations are well aligned across PK-12, helping us reach a unified vision of mathematics education.  
00:40:57 Lybrya Kebreab: Nice Dr. Roy. You do not have to have been traumatized to care about the maths trauma of others. :)  
00:42:17 Beth Kobett: Love @Lybrya!  
00:42:32 Megan Riley: hi  
00:42:52 Lybrya Kebreab: Hi Dr. Kobett!!!  
00:42:52 Sarah Bush: We are so glad you are here! Sorry for the little delay in the slides advancing!  
00:43:01 Denise Walston: Hi everyone, Denise from Chesapeake, VA  
00:43:05 Farshid Safi: George - Thank you for your honest, personal approach to mathematics education and the need to broaden the purposes of learning mathematics  
00:43:18 Mohamed T: Awesome!  
00:43:22 Lybrya Kebreab: Hi Dr. Safi. This is the place to be tonight!!!  
00:43:47 Farshid Safi: Hi Lybrya...Great to see so many brilliant scholars such as yourself!  
00:43:55 Emily Kavanagh: Absolutely!  
00:43:58 Lybrya Kebreab: \*shy smile\*  
00:44:38 Beth Kobett: YES! @Farshid!  
00:44:41 Pam Crombar: Yes  
00:45:18 Farshid Safi: @Beth - What a gathering and what an opportunity to learn from such great leaders in math education!  
00:45:22 Konnie Guthrie: You are preaching to the choir! Now we need to work to get our students and their parents to value math the way we do.  
00:45:36 Emily Kavanagh: That is true. Math is everywhere.  
00:45:37 Kristin Harbour: BRAVO, George!  
00:45:43 April Thompson: Thank you for the reminder! I wanted to see that webinar.  
00:45:52 Mark Chubb: Thank you George!  
00:45:56 Cathery Yeh: George, your words bring tears to my eyes! Thank you for your humility, honesty, and reflexivity. Mathematics education is not neutral. We have to reflect on our privilege and take action.

00:46:06 Sarah Bush: Agree @Cathery!

00:46:09 Rommel Daz: thank you george

00:46:12 Kathy Felt: Different perspectives are enlightening to others!

00:46:15 Aura Fortaleza: Thank you

00:46:15 Rebecca Hamlet: inherited fear of math

00:46:19 Erin Meunier: we can apply their backgrounds and culture to  
problem solving

00:46:25 David Graf: Thank you!

00:46:25 Rolando II Delos Reyes: thank you George for sharing your life

00:46:31 Laura Partridge: many ways to solve a problem - learn from  
each other

00:46:32 Emily Kavanagh: Hatred of math

00:46:32 MEI OH: Different ways of solving problems

00:46:33 Farshid Safi: Thank you @George !

00:46:33 Lisa Genduso: when students have the opportunity to make  
connections to their experience they take on more ownership of their learning

00:46:36 Lybrya Kebreab: I am in the Strengths-Based book study and knowing  
children's backgrounds can help you leverage their strengths!! @Dr. Kobett, @Dr.  
Karp :)

00:46:41 Cathery Yeh: Our students come to our classrooms with rich  
experiences and ways of knowing that leverage learning for all!

00:46:41 Jet Yeung: Thank you

00:46:41 Lori Mallett: Each student is unique in what they know; they bring  
a perspective that may connect with someone else's understanding

00:46:43 MEI OH: Different way of viewing problem

00:46:45 Laura Smyczek: parent fear of math and passing that on to their  
kids

00:46:46 Katie Johnson: different problem solving situations can be explored  
based on different perspectives

00:46:48 Susan Bardenhagen: They will have different ways to solve  
problems that can be shared.

00:46:49 Brenda Geier: If students can see mathematics in connection to  
their lives they are more invested.

00:46:50 Shay Belair: Thank you! I love what you said" students should  
experience wonder, joy and beauty of mathematics"

00:46:50 Tatiana Pereyra: Social justice real world problem solving

00:46:50 Erika Levrault: Knowing the student means making better connections,  
making the learning authentic

00:46:51 dana dulzo: just like there are different ways to solve  
problems, there different perspectives students bring from their background

00:46:54 Erin Meunier: shared strategies

00:46:57 Farshid Safi: @cathery Thank you as always for keeping us focused  
on our students and communities and the work ahead!

00:46:57 Deanna Moreau: such an important topic!!!! So important for  
middle school students

00:46:59 Rolando II Delos Reyes: home environments

00:47:01 Anna VonDoom: I remember a student accidentally solving for x  
instead of y in a linear equation. This brought about such a beautiful conversation  
of what each number would mean if x=...

00:47:02 Jennifer Outzs: Building on their natural curiosity

00:47:04 Sharon Black-MacKinnon: parents' fears are brought with them  
00:47:06 Jaidin Tonneson: Students are able to comprehend new mathematical concepts by understanding their classmates multiple perspectives!  
00:47:09 Mark Koester: open-ended problems that students can choose in which direction they want to go  
00:47:10 Cindy Bryant: Making connections to their culture, backgrounds, interests...  
00:47:12 Sarah Mastrull: Investigating the mathematics and patterns in different cultures' art  
00:47:13 Sophie Glassman: students can write their own word problems which will bring their backgrounds and perspectives into the classroom  
00:47:14 Shauna Brown: each student has prior knowledge about something in math  
00:47:16 Tatiana Pereyra: surveying interests  
00:47:19 Sharon Black-MacKinnon: open ended questions  
00:47:20 Yvette Martinez: opportunities for math discourse in small groups  
00:47:22 Sarah Omura: connecting what makes sense to them to the content makes the content accessible  
00:47:22 David Graf: find common thread in the world (Fibonacci number)  
00:47:23 Melynee Naegele: When students value themselves and one another they are connecting with each other as well as the math. They are building relationships!  
00:47:23 Michelle Hawley: Mathematics is a social justice issue. If we build on their backgrounds, we can make this relevant for all  
00:47:23 Konnie Guthrie: getting them to see how math fits into their own worlds  
00:47:26 Maria Dolores Estravez: Students from different culture can share their ideas based on their background.  
00:47:26 Gail Dean: using their cultural experience in math  
00:47:30 Mark Chubb: A playful pedagogy allows students to start with THEIR ideas first.  
00:47:31 Barbara Mayden: Making connections to the world around them. Answering the questions of how this will be used in life  
00:47:32 Jorge Veloso: Recognizing things like the sona  
00:47:35 Rebecca Hamlet: Family MATH Night  
00:47:38 George Litman: Mathematics is the language in which God has written the universe - Galileo; now how do we help students understand that.  
  
00:47:39 Rolando II Delos Reyes: invite them to see beauty of math in creation  
00:47:39 Lesly Brown: Culture and what the students is learning at home and outside the classroom is so important.  
00:47:47 Sharon Black-MacKinnon: family math night  
00:47:53 Sarah Bush: Love all this sharing! It's one of my favorite parts of the webinars!  
00:48:10 Mariah Sandoval: The connection to math is in all cultures. It's all about looking at it from a math lens.  
00:48:23 Cindy Bryant: GREAT question Christa!  
00:48:30 Chandra Brandel: Our school is scheduling all 6th grade

students in our Accelerated Math course this fall to better allow all students to be better prepared for 8th grade Algebra I.

00:48:31 Rolando II Delos Reyes: thanks Christa

00:48:32 Melynee Naegele: Students with disabilities are not benefitting!

00:48:38 Rolando II Delos Reyes: Minorities

00:48:41 Rachel White: Students with disabilities.

00:48:43 Kelly Sotsky: Students with disabilities

00:48:44 Jamie Ward: Tracking isn't good for anyone.

00:48:46 Konnie Guthrie: independent learners may be benefiting but most of us work better together in a group

00:48:50 Farshid Safi: So true @Christa! THANK YOU!

00:48:53 Maria Dolores Estravez: ESOL

00:49:02 April Thompson: POC are not benefitting like non-POC.

00:49:03 Melynee Naegele: The historically underserved are not benefiting!

00:49:05 Pamela Gavina: Math was not a priority for Title I students pre-covid. These students need teachers of color, who come from similar backgrounds.

00:49:16 Emily Kavanagh: Yes!

00:49:18 Erin Meunier: my research interest is relationship between tracking and self-efficacy --- do not like tracking

00:49:32 Abigail Bates: Do you have a recommendation about how to bring this up with our school boards? I'm a math coach for our district, but it's those higher up that would need to provide a directive for detracking

00:49:35 Lybrya Kebreab: Tracking teachers does not encourage communities of practice. PLCs help all stakeholders build capacity. Love this Dr. Jackson!

00:50:05 Michelle Hawley: We need to realize that these systems are doing EXACTLY what they were designed to do. We need to disrupt. Everything

00:50:13 Konnie Guthrie: Are my beliefs reflected in my practices?

00:50:22 Mark Chubb: Well said!

00:50:22 amanda Helgerson: YES!!!

00:50:28 Melynee Naegele: We ALL must examine our biases!

00:50:35 Nicole Rigelman: Reminds me of While Fragility from DiAngelo

00:50:43 Cindy Bryant: Altering traditional beliefs and practices must happen!

00:50:52 Lybrya Kebreab: It is counterproductive to only focus on your own ideas and not the \*structures\* that harm whole groups of students...or even 1 student.

00:51:14 Lybrya Kebreab: No more labels!!

00:51:20 Beth Kobett: Love the IMMEDIATELY! Let's DO THIS!

00:51:35 Melinda Lee: We have to do more than say we believe all students can learn. We have to learn how to help the struggling math learner to achieve!!

00:51:52 Erin Meunier: I'm fired up! This is awesome!

00:51:56 Sharon Black-MacKinnon: Love your passion!

00:51:56 Lybrya Kebreab: Amen!

00:52:12 Shweta Pathania Mishra: This is awesome 🙌

00:52:16 Pam Crombar: Significant Participants of math classes

00:52:17 Cindy Bryant: Labels can be debilitating!

00:52:35 Delores Rushing: Delores Rushing Yes Christa, we must stop labeling students

00:53:28 Nesia Bamfield: Love your passion for equal opportunities. All are capable.

00:53:34 Michelle Hawley: I question even the data we use we use for acceleration (which is different). Why are underrepresented students not reflected in these courses at the same rates?

00:53:45 Gail Dean: So true to use strength based approach—our students are our most valuable resource and our future—they are each so important for who they are to the whole

00:53:54 Melynee Naegele: How does a singleton make more difference to promote equitable practices in a system built by admin to be exclusionary?

00:53:57 Arika Wilder: Yes!

00:54:14 April Thompson: 🙌🙌🙌🙌🙌

00:54:16 Lybrya Kebreab: I am that kid. Even when accidentally put in a “lower track” I had to fight to return to a college-bound schedule in HS during my sophomore year!!

00:54:17 Louis Cicero: Home life is important

00:54:22 Erin Meunier: this is how tracking started! with desegregation

00:54:23 Patricia Sampaio: yes

00:54:28 Erin Meunier: or supposed desegregation

00:54:31 Farshid Safi: Understanding privilege! Whether we have it ourselves, or are in positions to disrupt the privileges reinforced by systems! THANK YOU Dr. Jackson!

00:54:34 Pamela Gavina: smaller class sizes!

00:54:35 Ashley Cusick: Communicate research to parents who strongly believe their child must be in honors

00:54:35 Anna VonDoom: Hmm I think there are more lurking variables than just race.

00:54:38 dorothy Groover: administrative support

00:54:43 Kathy Felt: Differentiation strategies need to improve

00:54:44 Laura Smyczek: smaller class sizes

00:54:44 Shelly Biggin: small class size

00:54:46 fran V.: individualized teaching

00:54:47 Flora Wright: smaller class size

00:54:47 Melynee Naegele: I need a tool kit to help me and my peers be disruptive!

00:54:48 Koyuki Fritchman: professional development, understanding own personal biases and learn how to eliminate bias in instruction

00:54:48 Teresa Lara-Meloy: Professional development for teachers

00:54:50 Jackie Murawska: How to convince parents?!?

00:54:52 Chandra Brandel: Our administration has eliminated standard 6th Math and will have all 6th grade students taking accelerated Math

00:54:52 Rachel White: Develop mathematical mindset for everyone

00:54:52 Konnie Guthrie: Get rid of math 6 and Acc math 6

00:54:53 Amanda Wedel: Involve community members in the conversation!

00:54:54 Laura Smyczek: use of low floor -high ceiling problems

00:54:54 Deanna Moreau: policy changes

00:54:55 Erin Craddock: Equity Literacy

00:54:56 Lloyd Baker: Admin support, small class size

00:54:56 Flora Wright: discipline

00:54:57 Louis Cicero: support from home

00:54:57 Pamela Gavina: coteaching with sped teacher

00:54:58 Kristen Faust: a few loud (entitled, white) parents

00:54:59 Chasity Bolch: Communities need to understand these truths as well as other teachers and admin

00:54:59 amy slaughter: teacher support and ongoing training in best practices

00:55:00 Lybrya Kebreab: Implicit bias training and examination

00:55:00 Emily Kavanagh: Differentiation all the way

00:55:00 Angie Schmidt: parents push for tracking

00:55:01 David Graf: economic equality

00:55:01 Melynee Naegele: Tool kit for disruption

00:55:04 April Thompson: support at the state, school and district level

00:55:05 Anna VonDoom: No more homework!

00:55:05 Michelle Hawley: Managing community expectations

00:55:06 Sarah Mastrull: Family involvement

00:55:07 Cindy Patnode: state policy changes about gifted students.

00:55:08 Jennifer Kissane: educate parents, teachers and admin as to why this needs to change

00:55:08 Erin Meunier: parent education

00:55:09 Teresa Lara-Meloy: Communication and PD for parents

00:55:09 Brianna Longwill: Educate the larger community

00:55:09 amanda Helgerson: convince admin all students can do it! no separate classes- no small group for IEP and Alg for those deemed able

00:55:11 Shauna Brown: proper support

00:55:13 Polly Wozny: We need to remove the advanced math course! We need administration to understand why it needs to go and be taught to all!

00:55:13 Laura Smyczek: parent push back

00:55:14 Katy Toth: smaller class sizes

00:55:16 JUDY DUNMIRE: Communication - Trying to help our community and school board understand equity - and not just as a buzzword, but as a non-negotiable structure for all our kiddos.

00:55:19 Beth Kobett: Bringing all stakeholders to the table

00:55:19 Anna Elizondo: emphasis on mastery vs. speed of learning

00:55:19 Jackie Murawska: Parent push back

00:55:21 dana dulzo: more high school options like statistics, finance and other than algebra, geometry, algebra 2 and pre-calc

00:55:22 Shay Belair: smaller class size

00:55:23 Chandra Brandel: 6th Grade should not determine the highest level of math one can take in HS

00:55:26 Louis Cicero: no more excuses

00:55:26 Mary Ann Nickloy: Education Laws

00:55:28 April Thompson: parent support

00:55:30 Rommel Daz: smaller class size

00:55:36 JAN SANDS: Smaller class sizes

00:55:37 Lybrya Kebreab: Word. @Louis

00:55:37 Aura Fortaleza: students own set goal

00:55:39 Lori Mallett: YES to Chandra's comment!

00:55:45 Farshid Safi: Empathy → Awareness → Action

00:55:46 Colleen Feller: high bar for ALL

00:55:53 Sharon Black-MacKinnon: co-teaching, communication with the



community at large, smaller class size, professional learning  
00:55:57 Erin Meunier: agree --- high bar for ALL  
00:56:00 Mark Chubb: Making math accessible to all requires more open  
problems and a focus on relational understanding  
00:56:01 Delores Rushing: Delores Rushing Systemic racism hurts  
students  
00:56:03 Kellie Petrick: Wow, that is powerful Farshid!!  
00:56:13 Gail Dean: As a parent, one wonderful mathematics teacher made  
a huge impact by her interest in the students who were considered in the "lower"  
math. She did this by getting them involved in her after school activities and then  
making them feel welcome to come to her for support. She shared her experiences of  
being isolated when she was their age.  
00:56:22 Nesia Bamfield: Structural Policy  
00:56:26 Katy Toth: stop assuming high stakes test results are valuable  
00:56:35 George Litman: confusing homework with learning, and completing  
homework with engagement.  
00:56:39 Teresa Bulanda: stop implicit bias  
00:56:40 Melynee Naegele: I can create equitable structures in my  
classroom, but admin in my district promote and demand tracking. It boils down to  
what they think will improve test scores.  
00:56:40 Bette Barkley: so no 504 or iep labels?  
00:56:52 Cindy Bryant: Too much emphasis on assessment preparation rather  
than equitable instruction opportunities for all!  
00:56:52 JUDY DUNMIRE: Struggling to reconcile long-term goal with  
immediate action?  
00:56:59 Lybrya Kebreab: You are amazing Dr. Bush!!!  
00:57:04 Gail Dean: So important to develop a sense of community in the  
classroom and beyond  
00:57:08 Emily Kavanagh: Yes equity  
00:57:15 Jennifer Outzs: Sarah is amazing!!  
00:57:19 DeAnn Huinker: Such powerful thoughts, needs, and perspectives.  
00:57:21 Catherine Bronikowski: District wide - equitable resources  
00:57:23 Deanna Moreau: Yep just yesterday on a zoom call  
00:57:26 Michelle Hawley: Well, we need to focus on test scores so  
that the majority students/families can feel better about themselves.  
00:57:27 Maria Dolores Estravez: Less testing  
00:57:34 Tiffany Britt: I clearly remember in 5th grade being told I didn't  
need to understand  
00:57:36 Tiffany Britt: the math  
00:57:38 Elizabeth Allen: All students deserve to be taught by someone  
who understands math and is an excellent math educator  
00:57:39 Beth Kobett: This author team is incredible!  
00:57:45 Rachel West: how to be a math person. be a person and do math  
00:57:49 April Thompson: I hear that from parents all the time! They think  
they can pass it along to their kids.  
00:57:49 Rommel Daz: more time given  
00:58:28 Sharon Black-MacKinnon: Sadly, I hear that from parents all too  
often :-(  
00:58:32 Michelle Hawley: Love the NO TOLERANCE recommendation  
00:58:32 Maggie McHugh: Would anyone ever say, "I'm not a reading person... I

don't need reading in my job."

00:58:42 Kelly Sotsky: confidence  
00:58:43 amanda Helgerson: willing to take risks  
00:58:44 Jaidin Tonneson: Willing to help their peers!  
00:58:44 Laura Smyczek: Willingness to try  
00:58:45 Rhonda Rampley: Take chances  
00:58:45 Christina Baldy: Willing to take risks  
00:58:47 David Graf: curious  
00:58:47 Laura Partridge: tenacity  
00:58:47 Sarah Mastrull: Perseverance  
00:58:47 Dave Hankin: We need to be enthusiastic when we teach math to our  
students. When they see that, they tend to want to be more involved.  
00:58:48 Shawn Towle: curiosity  
00:58:49 Shay Belair: Not afraid to make a mistake and is able to learn  
about them  
00:58:49 Leslie Texas: Risk taker  
00:58:50 Emily Kavanagh: Excited to do math  
00:58:50 Lori Mallett: Kids who try even though they aren't totally sure  
00:58:50 Kristen Faust: persistence  
00:58:51 Elizabeth Allen: Willing to take risks  
00:58:51 Rachel White: Not afraid to make mistakes  
00:58:52 amanda Helgerson: willing to be wrong and learn from it  
00:58:52 Rommel Daz: enjoys mathematics lesson  
00:58:52 Barbara Hill: Not afraid to make mistakes  
00:58:52 Rachel West: perseverance  
00:58:53 Robin Harbour: Willing to keep trying  
00:58:53 Maria Dolores Estravez: Persevering  
00:58:54 Kristen Faust: creative  
00:58:56 Christina Baldy: creativity  
00:58:56 Katie Johnson: Doesn't give up when a task is challenging  
00:58:56 Laura Smyczek: curious  
00:58:58 Aura Fortaleza: stay on task  
00:58:58 Michelle Hawley: Curiosity  
00:58:58 Sarah Omura: willing to take academic risks  
00:58:59 Sadie Flora: Willing to ask questions  
00:58:59 Jaidin Tonneson: Focused throughout the entire class period  
00:58:59 Anna Elizondo: Not deterred when they make mistakes  
00:59:00 Shay Belair: perserverence  
00:59:00 Maria Dolores Estravez: Diligence  
00:59:01 Nesia Bamfield: tracking undermines ability.  
00:59:01 Amanda Wedel: risk taker  
00:59:02 Ashley Cusick: growth mindset  
00:59:02 Lori Mallett: Want to work with someone else  
00:59:02 Carmen Cromer: The ability to persevere  
00:59:03 April Thompson: @Maggie NOT AT ALL!  
00:59:03 Lloyd Baker: Willing to take risks  
00:59:05 Ashley Cusick: ok with mistakes  
00:59:06 Donna Gessner: learn from mistakes  
00:59:07 Rommel Daz: get excited  
00:59:08 Patti Bambenek: perseverance

00:59:08 Ebony Baker: Ready to learn something new each day  
 00:59:08 Erin Meunier: always raising hand  
 00:59:08 Crystal Dean: confidence and willing to try  
 00:59:10 Kristen Faust: Seeks multiple representations  
 00:59:10 Melynee Naegele: Risk take  
 00:59:10 Ralph Pantozzi: learn from mistakes  
 00:59:10 Rolando II Delos Reyes: Inquisitive mind  
 00:59:10 Kendra Edwards: values mistakes  
 00:59:11 Dave Hankin: Inquisitive  
 00:59:12 JUDY DUNMIRE: Assumes they can do the math they are presented.  
 00:59:13 Siddhi Desai: Growth mindset  
 00:59:13 Kathy Rubendall: resilience  
 00:59:13 Pamela Gavina: collaborative  
 00:59:14 Aya Zvaigzne: not afraid of making a mistake  
 00:59:14 Louis Cicero: confidence  
 00:59:14 Sharon Cabangon: Asks questions until they understand  
 00:59:15 Christina Siow Young: confidence  
 00:59:15 Jennifer Outzs: willingness to ask questions  
 00:59:15 Mark Chubb: A student who NOTICES things  
 00:59:15 fran V.: not afraid to make mistakes  
 00:59:16 Anna VonDoom: Much of what holds kids back is in their character,  
 not in their math skills or teachability.  
 00:59:17 Donna Gessner: organized  
 00:59:17 Laura Partridge: willingness to try multiple strategies  
 00:59:18 Pam Crombar: That student is not afraid to learn something new.  
 Not afraid to fail or succeed. No walls  
 00:59:18 Katy Toth: risk taker  
 00:59:19 Chandra Brandel: Learn from their mistakes  
 00:59:19 Erika Levrault: willingness to explore ideas  
 00:59:19 Melynee Naegele: Curious  
 00:59:19 Jeanne Simpson: Believe they are capable  
 00:59:20 Rita Shamrock: determination  
 00:59:20 Christina Siow Young: grit  
 00:59:20 Shay Belair: likes to "play" with numbers and mathematical  
 concepts  
 00:59:21 Kelly Reigle: growth mindset  
 00:59:21 fran V.: questioning  
 00:59:21 Jason Ott: willing to try and apply to new problems  
 00:59:21 Aura Fortaleza: persevering  
 00:59:21 Shannon Parvankin: Take risks  
 00:59:21 dana dulzo: they have grit, they stick with it and are willing  
 to play with the problem until they find a solution.  
 00:59:22 Kelly Sotsky: motivated  
 00:59:22 Elizabeth Allen: Willing to engage in productive struggle  
 00:59:22 Denise Walston: persistent  
 00:59:22 April Thompson: Perseverance  
 00:59:23 Koyuki Fritchman: Likes to solve puzzles, play games,  
 creativity  
 00:59:24 Brenda Geier: curious  
 00:59:25 Lybrya Kebreab: Risk taker. Not rushed

00:59:25 Catherine Bronikowski: love of games/puzzles  
00:59:26 Amanda Wedel: confident  
00:59:26 Farshid Safi: Empowered by someone(s)  
00:59:27 Leslie Texas: Asks questions  
00:59:27 Dewey Gottlieb: they believe they can  
00:59:28 Cindy Bryant: growth mindset  
00:59:28 Rolando II Delos Reyes: Mind of wonder  
00:59:29 Jamie Ward: willing to take a chance on what the notice and wonder  
00:59:29 Melissa Edgerton: Perseverance  
00:59:30 Mark Vasicek: I can. And if I can't, I'll try.  
00:59:31 Melynee Naegele: Tenacious  
00:59:31 Pamela Goodwin: willingness to take risks  
00:59:32 George Litman: Risk taking, perseverance, likes math puzzles  
00:59:33 Jeanne Simpson: not afraid of mistakes  
00:59:33 Shay Belair: curious  
00:59:33 Dave Hankin: Determined  
00:59:33 Mark Chubb: Wonders WHY things work  
00:59:33 Kimberly Brown: problem solver think out side of the algorithm  
00:59:35 Kathy Freeman: brave  
00:59:36 Kellie Petrick: Accepts feedback for growth  
00:59:36 Denise Walston: loves to justify and defend ideas  
00:59:37 Nesia Bamfield: Assertive, determined, go beyond their limitations  
00:59:37 Sara Korman: willing to be wrong, excited, curious  
00:59:38 Amy Brown: finds safety in math  
00:59:39 Millie Norwood: commitment to learning  
00:59:39 Denise Walston: belief in self  
00:59:40 Andrea Chew: Growth mindset  
00:59:40 Gail Dean: Quick thinker—able to do computation without making small errors—able to do math fast—  
00:59:40 Louis Cicero: afraid of not making a mistake  
00:59:40 April Thompson: Analytical  
00:59:40 Sarah Omura: knows what to do when not sure what to do  
00:59:41 dorothy Groover: good work habits  
00:59:41 David Graf: sees the world as complex but with patterns  
00:59:41 Catherine Bronikowski: logical  
00:59:42 Rolando II DelosReyes: Push themselves to learn  
00:59:42 Lori Mallett: Realizes that it is a process and takes time  
00:59:43 Sharon Black-MacKinnon: grit  
00:59:43 Brianna Longwill: self reflective  
00:59:43 Jennifer Outzs: enjoyment of math  
00:59:45 Kristen Faust: asks why  
00:59:45 Lybrya Kebreab: Not afraid to be wrong  
00:59:45 Aura Fortaleza: inquire  
00:59:45 Melynee Naegele: Adventurous  
00:59:46 Kathy Freeman: risk taker  
00:59:47 Beth Kobett: Thoughtful  
00:59:49 Amanda Wedel: observer  
00:59:49 Mark Vasicek: perseveres  
00:59:49 Ricardo Tafoya: Continued mathematical education outside of the

classroom by personal choice.

00:59:49 Maria Dolores Estravez: open-minded  
00:59:49 Rebekah Brown: logical  
00:59:50 Shweta Pathania Mishra: curious  
00:59:50 Bette Barkley: perseverance, want to learn  
00:59:51 Catherine Bronikowski: skeptic  
00:59:52 Lauren Sparks: know they will be wrong sometimes  
00:59:52 Denise Walston: self-reliant  
00:59:53 MEI OH: persistence  
00:59:54 Kathy Freeman: persistent  
00:59:55 Dewey Gottlieb: tries to make sense of ideas and processes  
00:59:56 Mark Chubb: Willing to take time to think  
00:59:57 Grace Nina Monterde: optimistic  
00:59:57 Pam Crombar: Works outside the box  
00:59:58 Kellie Petrick: SKEPTIC  
00:59:59 fran V.: sees themselves as successful  
01:00:00 Margie Acabal: accept mistakes  
01:00:02 Rolando II Delos Reyes: Wanting to learn  
01:00:03 Kathy Freeman: open stance  
01:00:03 Stacey Miller: willing to try to complete tasks set before them  
01:00:04 Lori Mallett: Knows she doesn't have to be right on the first try  
01:00:08 April Thompson: Go beyond getting the answer  
01:00:09 MEI OH: willing to make mistakes  
01:00:12 Shelly Biggin: hard worker  
01:00:12 Aura Fortaleza: work hard to learn the concept  
01:00:13 Jorge Veloso: Productive struggle  
01:00:13 Nesia Bamfield: Try to find the relation between the topic and reality...  
01:00:14 Mariah Sandoval: Wanting to know the "how" and "why"  
01:00:14 Saul Gonzalez: Joy in finding solution(s)  
01:00:18 Debbie Aldous: Sees beyond rules  
01:00:19 Lybrya Kebreab: Loves a challenge  
01:00:21 Carmen Cromer: Wanting to understand, not just know!  
01:00:23 Lori Mallett: Can talk about what they observe  
01:00:25 Rolando II Delos Reyes: Discovering their thoughts  
01:00:27 Rachell Scott: critical thinkers  
01:00:28 Gail Dean: are not so worried about what everyone else thinks  
01:00:30 Rolando II Delos Reyes: Observant  
01:00:36 DeAnn Huinker: Can see mathematics in their everyday life and eagerly talk about math  
01:00:37 Sharon Black-MacKinnon: critical thinker  
01:00:40 Dave Hankin: Willing to share their math knowledge with others in class when asked  
01:01:14 Nesia Bamfield: goes beyond known formula and seek new ways of solving the question...  
01:01:18 Sharon Black-MacKinnon: looking for those wow moments  
01:01:26 DeAnn Huinker: Always wants to understand "why"  
01:01:32 Sharon Black-MacKinnon: willing to share  
01:01:43 Mark Chubb: Eager to find non-examples  
01:01:45 DeAnn Huinker: Willing to help their peers understand the math

01:01:50 Dr. Yankey: sharing  
01:01:59 Farshid Safi: @DeAnn , so right about wanting to understand the  
"Why"  
01:02:07 DeAnn Huinker: Doesn't stop at just getting the answer  
01:02:24 Nesia Bamfield: applies the lesson to life... "Why not"  
01:02:32 Mark Phipps: My school is grouping 10-15 students on the average  
per math teacher and requiring each teacher to teach a math skill builder class  
daily to these 10-15 students. For the students, they have one elective taken out of  
their schedule, then they have two periods of math daily. How do I discuss this with  
my school and/or district to enact the conversation of change?  
01:03:13 April Thompson: Teacher evals are centered around I Do, We Do....  
01:03:25 DeAnn Huinker: @Mark wish those small groupings were focused on  
filling knowledge gaps and building math identity, would benefit the students so  
much more  
01:03:54 DeAnn Huinker: @Mark, by knowledge gaps, I mean "conceptual"  
knowledge gaps  
01:04:06 Nesia Bamfield: @DeAnn, So true...  
01:05:12 Deanna Moreau: so true!!!!!!  
01:05:20 Mark Phipps: The challenge is that these sections are left up to  
each individual teacher and these students that already feel bad for being in the  
class feel less secure in their grade level math class.  
01:05:34 Lybrya Kebreab: @April Facts. That may be an effective pedagogical  
frame for other subjects, but STEM needs creative thinkers, not mimickers!!  
01:05:49 Chonda Long: The recording of this presentation will be available  
tomorrow afternoon at [www.nctm.org/100](http://www.nctm.org/100)  
01:06:15 Carole Castonguay: I don't think it's great for any subject.  
Maybe on occasion for clarifying the direction after lots of crazy brainstorming.  
01:06:21 Erin Meunier: @mark --- what does skill builder mean?  
01:06:21 Lybrya Kebreab: @Dr. Huinker I dropped out of a STEM major because  
no one would answer why in college Calculus  
01:06:27 DeAnn Huinker: @Lybrya, should every day in math class be about  
creativity in generating and authoring a variety of strategies and mathematical  
questions  
01:06:52 Louis Cicero: 50%  
01:06:53 Mark Phipps: math skill builder...  
01:06:56 Robin Schwartz: @lybrya sry to hear that which STEM progam?  
01:06:57 DeAnn Huinker: @Lybrya, your comment makes me so sad.  
01:06:59 Erin Craddock: GREAT QUESTION!  
01:07:11 Emily Kavanagh: 80%  
01:07:12 Mark Chubb: Powerful question!  
01:07:20 Aya Zvaigzne: 99.999999  
01:07:33 Anna VonDoom: Not many math teachers know the research...  
01:07:35 Lybrya Kebreab: Yes. Some part of everyday should give me a chance  
to feel like I matter in mathematics...even if I am only discovering known knowledge  
that is new to \*me\* hehe  
01:08:03 Sharon Cabangon: I LOVE that you said "During the school day"  
01:08:08 Rolando II Delos Reyes: I am hampered by our learning targets  
imposed by our Department of Education  
01:08:15 DeAnn Huinker: Books are available in print and ebook versions;  
also have fabulous resource guides: [www.nctm.org/change](http://www.nctm.org/change)

01:08:21 Lybrya Kebreab: I was a Bio major, but switched to Political Science because I did not have to take any more maths and science to do it.

01:08:21 Shauna Brown: a lot of schools don't support new teachers

01:08:22 Kristin Harbour: Wonderful job! :)

01:08:26 MEI OH: support for new teacher will be great

01:08:35 Dave Hankin: Phillies!!

01:08:40 Mark Phipps: Does your school require you to cover other classes during your prep time

01:08:52 Carole Castonguay: Mark, YES!

01:08:56 Lybrya Kebreab: @Dr. Huinker. Thank you, just makes me empathize with students better ;0)

01:09:03 Carole Castonguay: Not during our prep time, but our common plan time.

01:09:10 Robin Schwartz: @lybyra thanks for sharing & so glad you are in Math Ed now!!!

01:09:14 DeAnn Huinker: The Book Study Guides are now available on the NCTM Website for both of the new books to help you launch conversations with your colleagues and other stakeholders. [www.nctm.org/change](http://www.nctm.org/change)

01:09:34 Shweta Pathania Mishra: @Shauna True

01:09:38 Konnie Guthrie: Mark, sometimes. I get an email telling me which room to go to, less than 20%, my least favorite thing.

01:09:57 April Thompson: @DeAnn Thank you! I just got my book and can't wait to jump in.

01:10:05 Lybrya Kebreab: Hi @RobinSchwartz!! Nice to be here with awesome people like you!

01:10:18 Danielle Grenader: Can anyone recommend resources to learn more about delivering the type of math instruction we're talking about in this presentation? I am familiar with the philosophy, but I would like to learn more about how to actually do this. Specifically, how to actually deliver student centered, inquiry driven, culturally responsive, problem/project based, equitable instruction.

01:10:33 Robin Schwartz: yes @lybrya empathy with s's is so helpful (as a STEM major, somehow I did stick with it...GPA was barely 2.1) definitely growth mindset

01:10:48 JUDY DUNMIRE: Taking Action Books and The 5 Practices in Practice Books

01:10:48 Mark Chubb: What grade level are you teaching Danielle?

01:10:51 Beth Kobett: @Danielle I would start with Principles to Actions: <https://www.nctm.org/PtA/>

01:10:51 Lybrya Kebreab: @Danielle Taking Action is one good source.

01:10:57 Michelle Hawley: @Danielle - check out Illustrative Mathematics. All embedded

01:11:19 April Thompson: @Danielle great question. I'm curious, too.

01:11:20 Erin Craddock: @Danielle, you might be interested in resources from IB-MYP or PBL

01:11:31 CATHERINE CASTILLO: @Danielle Illustrative Math

01:11:42 Danielle Grenader: Thanks for all the suggestions! I am teaching 6th grade.

01:11:42 DeAnn Huinker: @Danielle, the NCTM Taking Action series has a chapter focused on each of the Math Teaching Practices; books available for

Elementary, Middle, and High School.

01:11:50 Maria Dolores Estravez: It's not easy to do when the teachers are required to follow a tightly-paced curriculum that includes hundreds of assessments.

01:12:03 Anna VonDoom: I would recommend IMPACT: Making Mathematical Learning Visible

01:12:04 Lori Mallett: Open Up Resources is amazing. The coherence is beautiful

01:12:09 Erin Craddock: Math workshop

01:12:09 Ashley Cusick: what time is it?

01:12:12 Konnie Guthrie: How much time left?

01:12:13 Pam Crombar: Why is it so low

01:12:16 Christina Baldy: I wonder how many minutes that will last

01:12:16 Lybrya Kebreab: @Danielle Also, Making Sense of Mathematics for Teaching (K-2, 3-5, 6-8, HS) have great tasks that are PLC'd with you. (Disclaimer: I do work with the team who wrote this book, but used extensively before I did!!)

01:12:16 Colleen Feller: Where did the 95% go?

01:12:17 Rolando II Delos Reyes: Low batt!

01:12:17 Elizabeth Allen: Where can I charge my phon

01:12:17 Sharon Cabangon: It's almost dead...

01:12:18 Michelle Hawley: Open up uses Illustrative

01:12:18 Jaidin Tonneson: Notice: The phone is almost dead

01:12:20 Rachel West: when will it die

01:12:20 Dave Hankin: Looks cosmic in the back

01:12:20 Jeanne Simpson: The Taking Action series is so helpful!

01:12:21 Sarah Davis: Is the red bar actually 5% of the image

01:12:21 Catherine Bronikowski: when will the phone will go dead?

01:12:21 Mark Phipps: Where's my charger

01:12:23 Lori Mallett: I feel like the 5%

01:12:23 Rolando II Delos Reyes: Need to charge

01:12:23 Emily Kavanagh: When was it last charged?

01:12:25 Katie Grunow: How long will it take to charge

01:12:25 Nesia Bamfield: when will the phone die?

01:12:26 Aya Zvaigzne: there is only one outlet near, me and it is already full. I need a charger.

01:12:27 Anna Elizondo: What is it measuring?

01:12:29 Jason Ott: can i send one more photo?

01:12:29 Lloyd Baker: Almost dead

01:12:30 Rommel Daz: Finishing?

01:12:30 Brenda Geier: It must be the end of the day

01:12:30 dana dulzo: how much time is left

01:12:31 JUDY DUNMIRE: @Danielle - Principles to Actions is the foundation, but if you are looking for practical over theoretical - I agree with Michelle (Illustrative Mathematics) and still recommend the Taking Action (by grade band) and The 5 Practices in Practice (by grade band) books

01:12:31 Carole Castonguay: What am I going to try to use this for?

01:12:32 Sharon Black-MacKinnon: 95% of the battery charge has been used

01:12:32 Lori Mallett: What did you do to drain the battery?

01:12:32 Gail Dean: How did the cell get to 5%?

01:12:32 Jaidin Tonneson: Wonder: What time of day is it?

01:12:32 Rachel White: Do I need a new battery?



01:12:33 Polly Kimminau: I wonder how many red sections it would take to fill the blue area

01:12:33 Shauna Brown: battery dying and how long it took to get to 5%

01:12:34 Dewey Gottlieb: how much time does that translate to

01:12:35 Sarah Omura: I notice the battery is almost dead. I wonder how long it will last?

01:12:36 Sreevelmurugan Vamadevan: Want to fill more

01:12:36 Mariah Sandoval: The connection between the image and the percentage

01:12:37 Debbie Aldous: Is it because of Zoom?

01:12:38 Aura Fortaleza: It needs 95% battery

01:12:38 Rachell Scott: who has a charger

01:12:42 David Graf: when is the next charge

01:12:42 Stephenia Courtney: Almost drained

01:12:43 Abdul Razak Othman: I need to recharge

01:12:45 Maria Timmerman: time for a new charger, cord, clean the port

01:12:47 Lawson Reilly: Is this a Samsung S10+? If so, it's got about 2 hours left.

01:12:47 Shelly Biggin: I better pli

01:12:55 CATHERINE CASTILLO: how much will it charge if I plug it in for 5min

01:12:57 Lori Mallett: I love this graphic!

01:13:02 Konnie Guthrie: Is it charging at a uniform rate?

01:13:06 Shweta Pathania Mishra: need to recharge

01:13:12 Emily Kavanagh: Turn on battery saver

01:13:20 Carole Castonguay: Is the cat going to know the plug out of the power?

01:13:22 Maria Dolores Estravez: It's a great activity! Open for different approaches

01:13:26 Shweta Pathania Mishra: 95% is used

01:13:32 April Thompson: This is great!

01:13:33 Sharon Cabangon: I love this activity.

01:13:37 Cindy Bryant: Very relevant for ms students!

01:13:40 Pam Crombar: This is rich.

01:13:41 Laxman Nepal: nice acitivity

01:13:42 Mariah Sandoval: are we using the phone while it charges?

01:13:50 Shweta Pathania Mishra: nice example

01:13:59 Sarah Bush: I agree, Eric selected an amazing task!

01:14:05 MARIA THERESA R. ABUNDA: good day from doha qatar

01:14:06 Anna VonDoom: If you ask students to collect data, each one needs a phone.

01:14:08 Beth Kobett: Love this task!

01:14:25 Cindy Bryant: Hi @Maria T

01:14:32 Aya Zvaigzne: not all of our students have phones, only some of the parents

01:14:33 Louis Cicero: Flatten he curve

01:14:43 Sarah Bush: I have to say my writing team Christa, George, and Eric - how did I get so lucky for them to also be AMAZING speakers!

01:14:55 Pam Crombar: Relevant

01:15:01 Mark Chubb: EEK

01:15:05 Tiffany Britt: I would love directions of this whole activity so I can share it with my team. it would be a great review of graphing before we move into functions (as well as linear and nonlinear)

01:15:06 April Thompson: They had the nerve!

01:15:11 Dave Hankin: I couldn't believe this when I first saw it!!!

01:15:15 Lori Mallett: dates

01:15:15 Emily Kavanagh: Wow

01:15:18 Cindy Bryant: Good day @Eva

01:15:22 Jennifer Kissane: Fake news GA

01:15:32 Robin Harbour: I HATE it when people put out incorrect graphs!

01:15:34 Carole Castonguay: division of fractions

01:15:36 Dave Hankin: Data manipulation...

01:15:37 Christina Baldy: cross multiplying in proportions

01:15:37 Lori Mallett: Division of fractions

01:15:38 Ashley Cusick: solving equations

01:15:39 Michelle Hawley: Number sense

01:15:40 Dewey Gottlieb: operations on fractions

01:15:40 Tiffany Britt: equations

01:15:40 Erin Meunier: division of fractions

01:15:41 Melynee Naegele: Fraction division!

01:15:42 Jeanne Simpson: solving proportions

01:15:43 Reetu Sahni: Solving equations!!

01:15:43 Donna Gessner: PEMDAS

01:15:43 Deanna Moreau: invert and multiply

01:15:43 Chasity Bolch: solving proportions

01:15:43 Laura Partridge: factoring

01:15:43 Chandra Brandel: long division

01:15:44 Kellie Petrick: Operations with fractions

01:15:45 Katie Grunow: Integers

01:15:45 Kendra Edwards: Operations with integers

01:15:46 Amanda Brown: solving proportions - cross multiplying

01:15:46 Pam Crombar: Cross multiply

01:15:47 dana dulzo: rules not understanding

01:15:48 Carole Castonguay: solving equations

01:15:49 Jaidin Tonneson: Solving Equations!

01:15:49 Lawson Reilly: "simplification"

01:15:49 Andrea Chew: fraction

01:15:50 Hsiao-Ting Chiou: pempdas

01:15:51 Mark Koester: Solving equations

01:15:51 Christina Baldy: slope

01:15:51 Sarah Bush: By the way we officially made "overproceduralized" a word!

01:15:52 Konnie Guthrie: fraction operations

01:15:54 George Litman: Arithmetic of signed numbers

01:15:54 Amanda Wedel: volume of cylinders

01:15:56 Jamie Ward: algebraic equations

01:15:57 Jennifer Kissane: fractions

01:15:57 Sherri Kane: multiplying & dividing integers

01:15:58 Angela Snyder: linear functions

01:15:59 fran V.: long division

01:15:59 Sarah Omura: two step equations  
01:15:59 Lybrya Kebreab: Cross multiply  
01:15:59 Kathy Freeman: fraction  
01:16:00 Teresa Lara-Meloy: area  
01:16:01 Lloyd Baker: fractions  
01:16:01 Kellie Petrick: Linear functions  
01:16:03 Shelly Allen: Proportions  
01:16:05 Stacey Miller: fractions  
01:16:05 Colleen Feller: square root  
01:16:05 Lybrya Kebreab: butterfly  
01:16:07 Shauna Brown: systems of equations  
01:16:07 Kathy Freeman: long division  
01:16:08 Aya Zvaigzne: son-cah-toa  
01:16:08 Sharon Black-MacKinnon: ratios  
01:16:09 Dave Hankin: ratios  
01:16:09 Robin Schwartz: integers Keep Change Change  
01:16:09 Stephenia Courtney: procures don't teach meaning  
01:16:09 JUDY DUNMIRE: Going to be using that word a LOT:  
overproceduralized.  
01:16:10 Nesia Bamfield: Fractions  
01:16:10 Saul Gonzalez: PEMDAS  
01:16:11 Deanna Moreau: integer operations  
01:16:11 Mark Vasicek:  $y=mx+b$   
01:16:11 Konnie Guthrie: subtraction of integers  
01:16:12 Rolando II Delos Reyes: even proving geometry statements  
01:16:12 Rebecca Hamlet: too many rhymes  
01:16:13 April Thompson: integer and fraction operations  
01:16:14 Sarah Mastrull: Solving equations  
01:16:17 Yvette Fujimoto: circles  
01:16:17 Lybrya Kebreab: KFC  
01:16:19 Sarah Omura: everything that ends up being tested  
01:16:19 Laxman Nepal: Algebraic solutions  
01:16:20 Dr. Yankey: Bodmas  
01:16:22 Margie Acabal: solving rational expressions  
01:16:23 April Thompson: Shortcuts  
01:16:31 Sarah Bush: Wow, great ideas!  
01:16:31 Melynee Naegele: When education is extremely underfunded in far too many states it seems impossible that consistency is possible. Educators are not being trained or supported with resources that are research based. Often they are purchasing or creating their own curriculum based on little or no research.  
01:16:45 April Thompson: Can I quote you on that?  
01:16:51 Stephenia Courtney: procedures don't teach meaning  
01:16:57 Aura Fortaleza: Very nice!  
  
01:16:59 Carole Castonguay: But the other side of not getting stuff to support what we do (or creating it) is to be stuck with just the book.  
01:17:00 Lybrya Kebreab: NO PINTEREST for Content!!!  
01:17:01 Sarah Bush: Awesome Eric!  
01:17:13 David Graf: Thank you  
01:17:21 JUDY DUNMIRE: @Lybrya - 100%!

01:17:24 Rachel White: Thank you everyone.

01:17:27 CATHERINE CASTILLO: there are many open resources now that are free and HIgH quality

01:17:28 Lybrya Kebreab: @Carole Illustrative Math is Open Source

01:17:38 Cindy Bryant: GREAT Job MS CC Team!!!

01:17:40 Carole Castonguay: Hmmmm

01:17:47 Lybrya Kebreab: @Carole Mathematics Assessment Project is also Open Source

01:17:48 Carole Castonguay: GO Math isn't.

01:17:49 Pam Crombar: Thank you so much. This makes my math heart so happy.

01:17:51 Erin Meunier: the illustrative math tasks are free and amazing

01:17:51 Dave Hankin: Yes, there is so much available for free lately.

01:17:55 Lybrya Kebreab: Nope. Haha

01:18:03 Kerry Taylor: What comes first implementing high-quality curriculum to deep mathematical understanding or implementing equitable mathematics instruction? To do both in a school year is extremely difficult.

01:18:19 Robin Schwartz: Love IM!! and Open Up are there Illustrative Math type tasks that are less Googleable?

01:18:21 CATHERINE CASTILLO: Im.kendallhunt.com

01:18:44 Michelle Hawley: IM is the backbone of the OUR materials.

01:18:45 Lybrya Kebreab: Not sure.

01:18:59 Deanna Moreau: Our kids are worth it!!!!

01:19:05 Ashley Cusick: start conversations in our own math teams

01:19:07 April Thompson: My school uses Achievement First. is anyone familiar with that?

01:19:07 JUDY DUNMIRE: @Kerry - I'm starting with Curriculum and supporting instruction through observation and feedback. It's hard to have strong instruction if you don't have a tool too support the teaching practices.

01:19:11 Ralph Pantozzi: change placement policies

01:19:12 Rolando II Delos Reyes: Influence policy makers

01:19:12 Laura Smyczek: Talk about not grouping/tracking

01:19:14 Rhonda Rampley: More collaboration

01:19:15 Gail Dean: Examine your own attitudes

01:19:15 Michelle Hawley: @Kerry - a HQIM would include equitable instruction

01:19:16 Lori Mallett: Set this as our department vision

01:19:17 Christina Baldy: Begin the process of detracting secondary math courses. Brining together stakeholders to begin that discussion and start the needed change.

01:19:17 David Graf: collaboration.

01:19:19 Erika Levrault: Organize colleagues for a book study

01:19:21 Dave Hankin: Advocate with our admin to engage in more student-related tasks.

01:19:22 Deanna Moreau: dismantle tracking systems

01:19:22 Katie Grunow: Speak up tp colleagues

01:19:22 Jaidin Tonneson: Refrain from using "labeling" terms such as accelerated and advanced!

01:19:23 Erin Meunier: less ability grouping

01:19:24 Shauna Brown: be flexible

01:19:24 Farshid Safi: TOGETHER Empathy → Awareness → Action

01:19:25 MEI OH: active

01:19:27 Lybrya Kebreab: Tell the truth to pre-service teachers and help them find their own unique strengths to contribute to classrooms!!

01:19:29 Lloyd Baker: Collaboration

01:19:29 Reetu Sahni: math department goals

01:19:30 Rolando II Delos Reyes: Changing of mindsets of policy makers

01:19:30 Aura Fortaleza: evaluate

01:19:30 Adrienne Burns: Work with admin to create goals and a long term plan.

01:19:31 Anna VonDoom: Teaching parents - How to support the learning of their children

01:19:32 Mark Koester: teach preservice teachers the conceptual understanding of those topics just names as overproceduralized.

01:19:32 Taylar Wenzel: Collaboration and share these resources!

01:19:32 Catherine Bronikowski: more mentorship for newbies

01:19:33 Emily Kavanagh: More collaborative planning

01:19:33 Mariah Sandoval: support

01:19:33 Rhonda Rampley: Challenge peer thoughts

01:19:34 Carole Castonguay: We're in turnaround, so the focus is on process!

01:19:35 Kathy Freeman: Stop labelling students

01:19:35 MEI OH: Fun

01:19:36 Yvette Fujimoto: more discussion/teaming

01:19:36 Deanna Moreau: Differentiation PD for teachers

01:19:37 Mark Chubb: Discussions with colleagues

01:19:38 Laura Partridge: next year not tracking 6th grade

01:19:39 DeAnn Huinker: Start conversations with School Board Members, Parent Groups

01:19:40 Rebecca Hamlet: times to plan quality PBL

01:19:41 Aya Zvaigzne: free student achie

01:19:41 Erin Craddock: Student discourse

01:19:42 Sarah Omura: greater focus on instruction rather than assessment

01:19:42 Lauren Sparks: get rid of accelerated math

01:19:42 Sarah Mastrull: Advocate for minority students when schedules are made.

01:19:43 Beth Nalker: help students see math as part of their everyday life

01:19:43 Chandra Brandel: Convincing colleagues to believe all students can do math well

01:19:43 Angie Schmidt: start using better resources

01:19:44 Lori Mallett: Inform and involve parents

01:19:46 Colleen Feller: the importance of students sharing their mathematical thinking

01:19:47 Rolando II Delos Reyes: Sharing of resources and strategies

01:19:48 Deanna Moreau: Mindset work for all staff

01:19:49 CATHERINE CASTILLO: advocate for kids

01:19:49 Carole Castonguay: Student centered

01:19:49 Louis Cicero: self evaluate

01:19:49 Reetu Sahni: Changing our language (de-tracking) language

01:19:50 Clare Thomas: Movement away from traditional tests

01:19:50 Rommel Daz: Consistency

01:19:50 Laxman Nepal: Students engagements

01:19:51 Teresa Lara-Meloy: Self-reflection

01:19:52 Denise Walston: involving leadership in courageous conversations around the impact of oppressive policies on equity

01:19:53 Tiffany Britt: I'm excited as a sp Ed teacher to have strengths based instruction

01:19:54 dorothy Groover: good practices in previous grades

01:19:54 Pam Crombar: Horizontal allignment using rich vocahbulary

01:19:55 Konnie Guthrie: getting students to value their thinking and building understanding from that

01:19:55 Rolando II Delos Reyes: Networking with other math teachers

01:19:56 Mark Chubb: Focus on learning, not readiness

01:19:56 Erin Meunier: start implementing with virtual learning

01:19:56 Lauren Sparks: mindset

01:19:57 Aya Zvaigzne: free student achievement to be independent of state testing

01:19:57 MEI OH: Allow the student to have a math voice

01:19:59 Deanna Moreau: We need to do this NOW!!!

01:20:00 Gail Dean: long -term steps- think of where we want our m.s. to be in the future

01:20:01 Maria Dolores Estravez: Short Term-implement it in my classroom first; Long Term-share with colleagues

01:20:06 Margie Acabal: collaborate with colleagues

01:20:07 Mariah Sandoval: flexibility

01:20:07 Chasity Bolch: building a community of educators that BELIEVE in these practices!

01:20:09 Lybrya Kebreab: Teach the way we want children to be taught. Practice what we preach!!

01:20:13 Stephenia Courtney: include parents and provide support

01:20:16 Melynee Naegele: I intentionally teach the SMPs using Principles to Action and 5 Practices - empowering students to be active participants in their learning.

01:20:17 Andrea Chew: Productive collaboration

01:20:18 Saul Gonzalez: Truthfully recognizing our biases

01:20:20 Tina Mazzacane: stakeholder understanding and support

01:20:21 Lesly Brown: Talk with my fellow teachers and restructure the way we do so many things.

01:20:25 DeAnn Huinker: Give a copy of the book to one's principal and then follow up by asking them questions about the book and what they read

01:20:29 Deanna Moreau: If it is not interesting to us, it won't be for our students

01:20:32 Denise Walston: Practice what we've been preaching for years

01:20:33 Sarah Bush: Love that idea @DeAnn!!

01:20:36 dorothy Groover: help students be comfortable with math

01:20:38 Gail Dean: Support parents as part of the learning community

01:20:40 Mariah Sandoval: some input from students

01:20:42 Nicole Rigelman: Agree @DeAnn

01:20:49 Dave Hankin: Like the principal comment!

01:20:56 Carole Castonguay: Inviting families, instead of just expecting their support

01:20:57 Beth Kobett: Start up a book study with key stakeholders.

01:20:58 Mark Phipps: I hear and understand: BUT how do I get started? My school is grouping 10-15 students on the average per math teacher and requiring each teacher to teach a math skill builder class daily to these 10-15 students. For the students, they have one elective taken out of their schedule, then they have two periods of math daily. How do I discuss this with my school and/or district to enact the conversation of change?

01:21:08 Sarah Bush: We are SO excited about the resource guides!

01:21:10 Stephenia Courtney: professional development

01:21:21 Lybrya Kebreab: The skill builders can still be grade-level skills

01:21:31 Rachel White: Can't wait to get this book.

01:21:34 Deanna Moreau: I ordered the books/resource guides today!!!!

01:21:35 Sarah Bush: An important takeaway: these books are about starting the conversation, embrace the journey!

01:21:37 Maggie McHugh: -Thank you!!!

01:21:48 Beth Kobett: Spectacular Presentation!

01:21:50 Margie Acabal: Thank you..

01:21:50 Lybrya Kebreab: Weeks of Inspirational Math are growth mindset tasks that are free, too. @ Mark

01:21:51 Carole Castonguay: Thanks.

01:21:53 Rommel Daz: Thank you

01:21:53 Carmen Cromer: Thank you!

01:21:54 Sharon Cabangon: Thank you!

01:21:54 Leslie Texas: Thanks for a great session!

01:21:55 Daniel Edelen: Thank you all!

01:21:56 Michelle Hawley: Thank you

01:21:57 Chandra Brandel: Thank you!

01:21:57 Rebecca Hamlet: Thank you

01:21:57 DeAnn Huinker: We love the Resource Guides, tri-fold, laminated, a page devoted to each recommendation; great easy resource

01:21:58 Reetu Sahni: thank you

01:21:58 LeAnna Deveaux-Miller: Another informative and engaging webinar..Thank you

01:21:59 Maria Dolores Estravez: Thank you very much!!!

01:21:59 Kelly Sotsky: Thank you!

01:22:00 Towanda Jackson: Thank you all!!!

01:22:01 Emily Kavanagh: Thanks so much

01:22:02 Brenda Geier: Thank you!

01:22:02 Tiffany Britt: thank you

01:22:02 Yvette Martinez: thank you!

01:22:02 Andrea Chew: Thank you!

01:22:02 Lauren Johnson: thank you for your hard work!!

01:22:03 Anna Elizondo: Thank you!

01:22:03 Kristin Harbour: Thank you authors! Amazing work!

01:22:03 Kendra Edwards: Thank you for a wonderful session!

01:22:03 Sharon Black-MacKinnon: thank you so much!

01:22:04 Laura Smyczek: Thank you!

01:22:04 Rhonda Rampley: Thank You  
01:22:05 Joanna Barth-Werb: Thank you!  
01:22:05 Laxman Nepal: Thank you so much  
01:22:05 Ashley Cusick: Thank you!  
01:22:07 Shay Belair: Thank you to all the panelists1  
01:22:07 Erin Meunier: Thank you!  
01:22:08 Nicole Rigelman: Thank you!  
01:22:08 India Puch: Thank you great presentation  
01:22:08 Lori Mallett: Thank you so much for this experience!  
01:22:09 Shweta Pathania Mishra: Thank you so much.. It was a very nice  
webinar.  
01:22:09 Kellie Petrick: YES!!!  
01:22:09 Lybrya Kebreab: This was AMAZING!! Thank you everyone!  
01:22:09 Vanessa Stokes: thanks !  
01:22:09 April Thompson: This was great!  
01:22:10 Aya Zvaigzne: Thank you for inspiring ideas.  
01:22:10 Amanda Brown: Thank you! Catalizing change is really exciting!  
01:22:10 Aura Fortaleza: Thank you all!  
01:22:10 Christina Siow Young: Thank you!  
01:22:11 Paige Kavanaugh: Thank you!!  
01:22:12 dorothy Groover: j  
01:22:12 PALOMA CARRERA-ANDINO: thank you!  
01:22:12 Valerie Kopinski: Thank you!  
01:22:13 Deanna Moreau: Thank you so much!!!! This was so important and  
powerful!!!!!!  
01:22:13 Konnie Guthrie: Thank you. I am always glad I attended.  
01:22:13 Sherri Kane: Thank you!  
01:22:15 Tammy Moynihan: Another fantastic opportunity to learn together!  
Thank you!  
01:22:16 Sadie Flora: Thank you!  
01:22:16 dorothy Groover: t  
01:22:16 Kimberly Brown: Thank you for your passion  
01:22:17 Erika Levrault: Thank you!  
01:22:17 Adrienne Burns: Thank you!  
01:22:17 Mary Jones: Thank you!  
01:22:17 Christina Baldy: Thank you so much!  
01:22:18 Sarah Omura: thank you for a powerful webinar!  
01:22:20 Lawson Reilly: thank you, well done.  
01:22:20 Mary Ann Nickloy: Thank you  
01:22:20 Taylar Wenzel: Thank you all for such a great session!  
01:22:21 Karen Karp: What an amazing team of presenters!!! BRAVO  
01:22:21 Jet Yeung: Thank you  
01:22:21 Wisnu Siwi Satiti: Thank you  
01:22:21 Stacey Miller: Thank you very much!!  
01:22:22 Mark Koester: Thank you for your work and passion  
01:22:23 dana dulzo: thank you so much, our administrators need to listen  
to these webinars  
01:22:24 Rita Shamrock: from Rita Thank you all  
01:22:24 Phyllis Creech: Thank you!  
01:22:25 Daniel Irving: Thank you all for such an incredible presentation



and for developing such meaningful and invaluable resources!

01:22:26 DeAnn Huinker: Inspiring session!!  
01:22:28 Kathy Felt: Thank you for your work and time!  
01:22:28 Kelli Chambers: thank you greatinfo and ideas  
01:22:28 jill brown: Thanks from Australia  
01:22:29 Beth Nalker: Thanks!  
01:22:30 Rebekah Brown: Thank you!  
01:22:30 David Graf: Thank you all  
01:22:30 Dave Hankin: Thank you again from Globe, Arizona!  
01:22:30 Olga Kosheleva: Thank you!  
01:22:30 dorothy Groover: Thank you!  
01:22:31 Deniz Çakır: 10q :)  
01:22:31 Jamie Ward: Thank you for your time.  
01:22:35 Robin Williams: Thank you!!  
01:22:35 Mark Chubb: Thank you all! This was awesome!  
01:22:35 Sarah Bush: Thank you all for attending!!!  
01:22:36 Christina Baldy: Thank you so much! Love the energy and frequent prompts to enter the chat.  
01:22:36 Beth Kobett: Let's all begin Catalyzing Change!  
01:22:37 Amy Nordhoff: Thank you!!  
01:22:37 Jason Ott: This has been a wonderful framing of your work for us. Thank you for your work. Our students and teachers will benefit from it.  
01:22:39 MEI OH: Thank you so much, this is inspiring  
01:22:39 Jennifer Kissane: thank you  
01:22:40 Lori Mallett: Will the slideshow be available for us to share with colleagues?  
01:22:42 Stephenia Courtney: Thank you!!! Another great presentation!!!!!!!  
01:22:43 Farshid Safi: Thank you to this phenomenal panel, reviewers of the book and all organizers of #NCTM100!  
01:22:45 Wisnu Siwi Satiti: Thank you all  
01:22:45 norma gordon: +1 to admins and others reading/hearing/seeing this!  
01:22:45 Fred Rectanus: Thank you all. Let's get busy implementing these ideas.  
01:22:47 Mariah Sandoval: Thank you! Great experience for my first online seminar.  
01:22:48 norma gordon: Thank you  
01:22:48 Carla Nisbett: thank you  
01:22:50 Saul Gonzalez: Thank you Christa and Team!  
01:22:55 Sarah Bush: We are excited to hear about your journey!  
01:22:57 Lisa Moores: Thank you all!  
01:22:57 Danielle Grenader: Thank you! And thanks to everyone who responded to my question :)  
01:23:06 Deanna Moreau: Great question!!!!  
01:23:11 Vicki Roman: Thank you!  
01:23:15 Deniz Çakır: thank you  
01:23:18 Catherine Anderson: thank you  
01:23:21 Lybrya Kebreab: We all need each other Danielle!  
01:23:39 Carla Nisbett: that's it right there...great question!  
01:23:45 DeAnn Huinker: The recording of the video for this session and the

other two Catalyzing Change sessions are available at [nctm.org/100](http://nctm.org/100). Watch it with your administrators, even virtually!

01:23:50 Diana Esposito: Thank you- -this was geat!

01:24:28 Lybrya Kebreab: Agree @Dr. Huinker. Help them process their own maths traumas that push compliance over creativity.

01:24:42 dorothy Groover: Should we be looking at how we are gradin students?

01:24:44 Roberta Ludwigsen-Hill: Thank you

01:25:01 Lybrya Kebreab: Principals do not tend to be maths teachers. Hehe

01:25:01 Deanna Moreau: Great advice!!!!

01:25:14 India Puch: good statement!

01:25:27 India Puch: YES!!!!

01:25:32 Deanna Moreau: developing short and long term goals

01:25:38 dorothy Groover: Students need to believe in themselves and be confident in their work.

01:25:39 Lybrya Kebreab: Better to do something well than everything poorly.

01:25:40 Kristin Harbour: Love—new roots!

01:25:51 India Puch: Okay

01:25:52 DeAnn Huinker: @Lybrya, you said it so well. We have to help many of our colleagues and administrators and parents process their math traumas.

01:25:58 Fred Rectanus: “What could it look like if...?” stem to begin the conversation.

01:26:03 Lybrya Kebreab: :)

01:26:04 Stephenia Courtney: STRUCTURE AND CONSISTENCY

01:26:05 Kellie Petrick: There is a perception that change to structure can and should only happen when “test scores” improve when pockets “try on” these changes.

01:26:06 Ralph Pantozzi: CASE STUDIES are so helpful!

01:26:17 Kellie Petrick: What if that change DOESN’T change test scores...then what?

01:26:19 Fred Rectanus: Wonderful idea to have student and school case studies.

01:26:38 Gail Dean: Thank you! Much food for thought.

01:26:41 Aya Zvaigzne: High school needs everyone in elementary and middle school ... to make things work

01:26:51 Kristen Power: Thank you

01:26:56 Taylar Wenzel: Thanks again to you all!

01:26:57 FLORENCE MAE DELA CRUZ: Great advices  

01:27:02 Deanna Moreau: thank you, you all were amazing!!!!

01:27:06 Lybrya Kebreab: @Kellie test scores usually take a couple of years to take effect. Also, they turn people off to STEM fields when there is only one way to be successful

01:27:07 Rebecca Ronk: Thank you

01:27:08 Angelita Beltran: Thank you!

01:27:11 Katie Grunow: Thank you for a great webinar!

01:27:13 FLORENCE MAE DELA CRUZ: Thank you so much! 

01:27:13 Deanna Moreau: such important messages!!!!

01:27:23 Kellie Petrick: Thank you @Lybrya

01:27:23 Rolando II Delos Reyes: I am so grateful for being part of this group!

01:27:24 Juli Lenzotti: Thanks for all your work on these resources. LOVE the PK-12 through line perspective for each grade band!

01:27:25 Barbara Harvey: Thank you so much

01:27:25 Shweta Pathania Mishra: link for the E-Certificate?

01:27:26 Tina Mazzacane: Great job - thank you!

01:27:28 Melynee Naegele: Thank you!

01:27:28 Sarah Bush: Thank you so much for your help! Also, Lybrya is my doc student so I am sure she is loving the conversation with you!!

01:27:29 India Puch: Thank you!

01:27:29 Dorlisa Johnson: Thank you!

01:27:29 Cindy Bryant: ots

01:27:32 Lybrya Kebreab: We miss out on a lot of brilliance because of test scores, you know?

01:27:34 Aya Zvaigzne: Thank you all for so many inspiring ideas and thoughts.

01:27:34 Daniel Irving: Thank you!

01:27:38 Lybrya Kebreab: Thank you!

01:27:41 Lori Mallett: I really appreciate the webinars provided to us!

01:27:44 Elizabeth Hahn: Thank you for leading us to new levels of excellence

01:27:46 Lybrya Kebreab: I learned a lot

01:27:53 Rolando II Delos Reyes: Learning a lot that I can bring to my own classroom. Salamat po! PHPPPH

01:27:57 Tiffany Britt: I've signed up for 12 of the webinars

01:28:00 Rachell Scott: Thank you!!

01:28:09 Carmen Cromer: Thank you all!

01:28:20 Sarah Bush: Thank you so much for all you do for mathematics education!

01:28:36 dorothy Groover: Testing has been excessive!

01:28:52 ELLA CABRERA: Thank You!!

01:28:53 Aya Zvaigzne: # 100Days #MathRevolution

01:29:07 Cindy Bryant: It's been a pleasure for our Chicago Program Committee to schedule these 100 days sessions!

01:29:13 Mark Phipps: I've been to all of these so far. Keep up the good work. This change is really my first frustration. We've talked about it for three days and I'm concerned about the long-term change. We shall see how it goes.

01:29:24 Pamela Goodwin: thank you!

01:29:24 George Roy: Thank you

01:29:26 Shauna Brown: thank u

01:29:28 Charles Hiemer: Thank you!

01:29:29 Ralph Pantozzi: thank you!

01:29:30 MEI OH: Thank you!