```
00:13:43
                Sara Van Der Werf:
                                         Thanks Annie! No snow or ice in MN - but I
am not complaining about balmy 40-50 degrees this week.
                Ralph Pantozzi: Millington NJ
00:13:45
00:13:46
                Owen Bissell:
                                Los Angeles, CA
                James Short:
00:13:48
                                Ojai, CA
                Octavia Brauner:
                                         Hello from Arlington, MA!
00:13:51
00:13:51
                Daniel Irving: Hello from North Providence, RI!
                Jennifer Lagrange:
00:13:55
                                         Atlanta, GA
                Melina Dyer:
                                Vancouver, WA
00:14:02
                Renee Schley:
                                Minneapolis, MN
00:14:02
                Kayla Edwards:
                                Longview, Washington!
00:14:03
00:14:04
                Molly Daley:
                                Vancouver, WA
                Nicole Rigelman:
                                         Hello from Portland, OR
00:14:04
00:14:07
                Rebecca Rud:
                                NW Minnesota
00:14:07
                Cara Hetrick:
                                San Diego
                                Frankenmuth, MI
00:14:07
                Donna Wright:
00:14:08
                Paula OSullivan:
                                         Hello from Somerville MA!
                Kim Blaise:
00:14:09
                                Westchester, NY
00:14:09
                Beth Flanigan:
                                Cincinnati, Ohio
                Christina Lincoln-Moore:
                                                 Christina Lincoln-Moore, Los
00:14:09
Angeles, CA
00:14:12
                Mindy Johnson:
                                Gorham, NH
00:14:14
                Robert Mann:
                                Hi all.
                                         Macomb, IL here.
00:14:15
                Eleanor Pusey:
                                North Myrtle Beach, SC
                                Greetings Shelly Jones from CT
                Shelly Jones:
00:14:17
00:14:18
                Brian Streight: Oxford, OH
00:14:18
                Julie Bormett:
                                Verona, WI
                Noam Szoke:
                                San Francisco
00:14:18
00:14:25
                Diana Hughes:
                                Los Angeles, CA
00:14:31
                Sherri Jones:
                                Austin TX
                                Milwaukee, WI
00:14:38
                Mary Mooney:
00:14:39
                Sharon Soule:
                                Coleville Ca
                Mark Nechanicky:
00:14:41
                                         Albert Lea, Minnesota
00:14:44
                Tara Fulton:
                                Phoenix, AZ a nice 78 degrees today ;)
                Koren Obenshain:
                                         Albuquerque NM
00:14:52
00:14:53
                Else Goll:
                                Hopkins, MN
00:14:54
                Lisa Kew:
                                Sydney, Australia
                                On the ancestral homelands of the Erie and Seneca
00:15:00
                Kimberly Yoak:
peoples, here in northeast Ohio
                Lorie Huff:
                                Fayetteville, Arkansas
00:15:06
00:15:12
                Chonda Long:
                                www.nctm.org/policies
                                Becky Unker from Utah
00:15:17
                Becky Unker:
00:15:20
                Sara Van Der Werf:
                                         Yo Molly!
                                Ted Coe - hanging out in Michigan today
00:15:27
                Ted Coe:
                Yvonne Slanger-Grant:
                                         East Lansing, Michigan
00:15:31
                                         Hi Rachel! So good to see you again!
00:15:42
                Monique Cabellon:
                Stacie Kaichi-Imamura:
00:15:42
                                        Honolulu, HI
00:15:46
                Rachel Lambert:
https://docs.google.com/document/d/1woMk-JcH2zConLQpfnjDGDqu wdKQ43se84IhMrulSU/edit
?usp=drive link
```

```
Molly Daley:
                                Sara!!
00:15:47
                Erica Heinzman: Hi Erica from San Diego
00:15:48
                Ron Noval:
                                Mesa, Arizona! ☺
00:15:55
                Amy Shah:
                                Hi Amy from just outside of Philly.
00:16:06
                                Jane From Duluth, MN
00:16:15
                Jane Juten:
                Jayme Lorenz:
00:16:17
https://docs.google.com/document/d/1woMk-JcH2zConLQpfnjDGDqu wdKQ43se84IhMrulSU/edit
?usp=drive link
00:16:19
                Katherine Richardson:
                                        Westminster West, Vermont
                Patricia Busta: St. Paul, Minnesota
00:16:20
00:16:30
                Tammi Perez-Rice:
                                        Houston, Texas
00:16:35
                Amy Shah:
                                Hi Amy from just outside Philly.
                Melissa Conway: Boston, MA
00:16:49
00:17:05
                Annie Fetter:
                                @Amy, we're neighbors! I'm in Delco.
00:17:08
                Nicola Vitale:
                                Yay!
00:17:09
                Kimberly Yoak:
                                Hooray!! Congratulations!!
00:17:09
                Tara Fulton:
                                When will the recording be available?
                                That's amazing! Congratulations Rachel!
00:17:17
                Deepa Bharath:
00:17:17
                Molly Daley:
                                Woohoo!
                Kristen Hayden: Kristen from Franklin Twp. New Jersey
00:17:27
                Shelly Jones:
                                Woo Hoo! Congratulations!
00:17:31
00:17:31
                Javme Lorenz:
                                It will be posted online tomorrow
00:17:46
                Becky Unker:
                                YAY!!! I'm so excited for your book!
Congratulations!
                Amy Shah:
                                Hi @Annie!
00:17:47
00:17:59
                Yi Law Chan:
                                Congrats on the book! Can't wait!
00:18:24
                Anne Marie Nicoll-Turner:
                                                So excited to be here.
                                                                         Can't wait
for the book.
00:18:46
                Joleigh Honey: Agreed! Super excited for this discussion... and the
BOOK!
00:21:00
                Anastasia Betts:
                                        01 for me— teaching for understanding
                                1. I want people to be able to reason about the
00:21:03
                Diana Hughes:
world and their problems, using math.
00:21:09
                Kate Smallberg: 1. joy, 2. the lack of joy
                                Q1: That all students understand the math they are
00:21:10
                Dawn Diblev:
asked to do.
                                Q1: Students feeling competent. Developing student
00:21:10
                Amv Smith:
understanding of math concepts.
                Margaret Williams:
                                        Q1 All students make sense of the math and
00:21:10
are challenged
00:21:10
                Tammy Lackey:
                                Q1: Meaningful learning happens
                Joshua McKnight:
                                        Q1: For all students to have access to high
00:21:12
quality instruction.
                                1. Creating critical thinkers
00:21:15
                Susan May:
                                1. High Quality Instruction for all students
00:21:15
                Denise Porter:
                                O1 - developing mathematical thinkers
00:21:16
                Lisa Rogers:
                                        Q1 Kids understanding and being able to talk
00:21:20
                Koren Obenshain:
about math and relationships within math
                Diann Christensen:
                                        Q1 Students becoming problem-solvers and
00:21:20
sense-makers
```

```
00:21:21
                M Romanelli:
                                01: I want to help students the language of
mathematics. I want them to be able to use it as a meaningful tool.
                Sharon Soule:
                                1. Student understanding and motivation to continue
00:21:22
studying math
                                Q1 developing mathematically functioning adults
00:21:23
                L Hatch:
00:21:23
                Emily Stewart:
                                Q1-not labeling kids as low, high. It's destructive
to kids and our present and future society.
                                Q1: People who can problem solve and reason
00:21:24
                Lisa Tibbetts:
                                     I want students to be problem solvers who view
00:21:24
                Cara Hetrick:
                                Q1:
themselves as individuals who have something to contribute to the problem solving
process.
00:21:25
                Erin Mercer:
                                Q1: Teaching for understanding & at the national
level, common standards is helpful to share resources.
                Kimberly Yoak: 01 - Helping everyone to feel included in
mathematics and to feel capable of engaging with mathematics in many ways (any way
they choose)
00:21:25
                Molly Daley:
                                Q1: Dispositions and helping students (and teachers)
find their own connections to math
                Jamie Veraldi: 1.) What matters most to me is having kids who feel
00:21:26
supported and confident in learning math, even though it may be challenging for
them, I want them to feel like they can be successful.
00:21:27
                Danielle Troullier:
                                        What matters Is long-term student
success,,,coherence
00:21:28
                Brenda Geier:
                                Q1: ALL students should be working on authentic,
real world math problems; equity in mathematics
00:21:28
                Vicki Vierra:
                                1. It matters that students understand, engage in
and enjoy math
00:21:28
                Rebecca Hill:
                                1. Students ENJOY using math to solve problems
00:21:29
                Emily Hixon:
                                Q1: Understanding the value of math as a meaningful
development of critical thinking
00:21:29
                Jocelyn Robbins:
                                        1. That every student is taught to high
levels of math and everyone believes all students can learn
                Kevin Moore:
                                Learners should be challenged to think
00:21:31
mathematically.
                Suzanne Huerta: 1. Mathematical thinking
00:21:32
00:21:33
                Karen Gayle:
                                Q1 that teachers have the content knowledge and the
pedagogy skills to teach it.
                                A1: One thing that matters is that people think math
00:21:34
                Annie Fetter:
sucks, and that makes me sad...(I guess that's also an answer to Q2!).
00:21:34
                                I am concerned about equitable outcomes for our
                Noam Szoke:
students.
                Dawn Plestina:
                                Q1 Helping my students become independent learners
00:21:35
of math concepts
00:21:37
                Darin Gundy:
                                1. critical thinking skills
00:21:39
                Owen Bissell:
                                1. Conceptual understanding and reasoning ability.
Creating joy around mathematics and problem solving!
                                Q1 - Helping students have a deep understanding of
00:21:40
                Lorie Huff:
the mathematics content. Develop thinkers of mathematics.
                Sara Kirschner: 1- Understanding and application, equity
00:21:41
2- resistance to change
```

```
00:21:42
                Erin Mercer:
                                Q2 : Students with learning gap, meeting their needs
                                1. I want students to have a mindset for solving
00:21:42
                Miles Cowles:
problems. 2. Students struggle to struggle.
                Kristen Hayden: 1. having students learn conceptually so procedural
fluency can be developed
00:21:46
                Virginia Kuryla:
                                        Q1: I want students to have number sense, to
be flexible with their thinking
                                1: making meaning of their learning and transferring
00:21:47
                Else Goll:
to new contexts
00:21:48
                Margaret Williams:
                                        O2 one size fits all
00:21:49
                Tara Fulton:
                                Q1 - practitioners being critical consumers of all
programs to ensure alignment to Math Ed research
                Marcus Helmer: Q1 - Students see math as a topic that makes sense
00:21:49
(and is very weird)
00:21:50
                Lisa Hillstrom: Letting students to the thinking and talking about
math.
00:21:50
                Grace Kelemanik:
                                        1. Mathematical practices.
                Emily Stewart: Q2-people without math education backgrounds or
00:21:51
teaching backgrounds who have so much power in the decision making
                Kim Blaise:
                                01: Students see connections
00:21:51
00:21:51
                Mary Ellis:
                                Q1. I want students to make sense of mathematics
00:21:51
                Dawn Diblev:
                                Q2: Adults who don't understand the math they are
teaching.
                Dianna Crescitelli:
                                        Q1: It matters that folks connect math to
00:21:52
themselves and their lives as they make sense of it.
00:21:54
                Karen Gayle:
                                Q2 unable to find qualified math teachers.
00:21:54
                Anne Marie Nicoll-Turner:
                                                Q1 Success for all students in
mathematics, regardless of special designations or zip codes where they live. Good
self-image in math, students should see themselves as creators of math.
00:21:57
                Danielle Troullier:
                                        One problem we face is teacher preparation
and ongoing content study
                Rohith Adusumilli:
00:21:59
                                        1). All my students to participate in the
classroom. My goals is to keep growing from feedback I get in teaching. How students
self direct learning matters.
2). Problems we face- lack of instructional time to plan many engaging activities in
our lessons. Lack of supplies.
                                1. That students are equipped with the tools of
00:21:59
                Donna Wright:
mathematics to solve problems in real life - work smarter, not harder.
                Patricia Busta: 1. Students being given the opportunities to make
sense of the math.
                                        Helping students love learning math and grow
00:22:00
                Lisa Sobol-Boyle:
in math understanding
                                O2: teacher's belief systems are challenges
                Brenda Geier:
00:22:00
                Shelly Jones:
                                Q1 It matters that students understand the math we
00:22:02
are working on. They understand HOW to use the math in their real life. They are
able to use math to explore and explain things that matter to them. For starts.
00:22:03
                Joshua McKnight:
                                        Q2: Insufficient training and preparation of
the teachers responsible for student in need of the most specialized instruction.
00:22:04
                Octavia Brauner:
                                        Q1: students are doing math, thinking
```

mathematically, and discussing math. 00:22:05 Paula Clark: Q1 engage students in the mathematical practices 00:22:05 Q2: Teachers lacking deep content knowledge to Amy Smith: understand how best to support student learning trajectories. Elise van der Jagt: Q1: Equity and access through high quality 00:22:06 maths education Q2. False dichotomous thinking about maths pedagogy. Kimberly Yoak: Q2 - Many people are extremely focused on one way of 00:22:06 defining and measuring "mathematics learning", perhaps to the detriment of deep learning for all. 00:22:07 Jocelyn Robbins: 2. Poor instruction- also achievement gaps are not necessarily achievement, but gaps in instruction and gaps in expectations Tanisha Horton: Q1: Creating a joy and wonder for mathematics, that 00:22:07 students see themselves as capable does of mathematics and that the subject is useful and relevant 00:22:07 Rebecca Hill: engagement Mary Mooney: 00:22:09 It matters to me that children feel empowered to persevere in problem solving especially when mathematical thinking is needed or helpful. Sharon Soule: 00:22:09 2. The culture of standardized testing and the belief that testing will somehow automatically improve math education. 00:22:09 Dora Trujillo: A1: Making math relatable. 00:22:13 Else Goll: 2. Personalizing learning for all learners in heterogeneous classrooms Q2: teachers don't feel confident teaching math 00:22:14 Kim Lee: Vicki Vierra: 2. Problem: teachers & communities with a narrow 00:22:14 vision of math 00:22:14 Dawn Plestina: Q2 Kids thinking that math is akin to being a calculator 00:22:14 Jamie Veraldi: 2.) Problems currently for me, addressing gaps in learning created by covid shut down when your state hasn't adjusted it's expectations of student outcomes. 00:22:15 Molly Daley: Q2: We don't share common goals. We have a system built to promote answer-getting, not thinking and some folks are happy about that. 00:22:15 Pamela Williams: 1. Students are able to APPLY math skills in new and challenging ways. Marcus Helmer: Q2 - Culture around math. Parents and other faculty 00:22:16 and their attitudes towards math Jane Juten: I want all students to feel equally engaged in 00:22:17 problem solving activities in my classroom. I want a level playing field. Students have confidence to tackle rich problems. 00:22:17 Jana Rupp: They are doing the majority of the thinking. Octavia Brauner: Q2: Lack of rigor. 00:22:18 00:22:19 Dawn Barson: Q2 training preservice teachers to help aid in the pedagogical shift 00:22:19 Cara Hetrick: Q2: A tension between learning the procedures for math and finding answers and valuing mathematical thinking and process. 00:22:20 Tanisha Horton: 2. Conflicting beliefs around the purpose of mathematics Emily Stewart: Q2-Teacher education programs need to grow and 00:22:21

change.

```
00:22:22
                Lisa Tibbetts: 2. Non-thinkers; Mimickers
                Emily Hixon:
                                Q2: People feeling like math is isolated as
00:22:23
applicable only to math or contrived real world applications except in engineering
careers
                                        2. We have a Tier 1 instruction problem
00:22:23
                Jocelyn Robbins:
00:22:24
                Norma Borenstein Gordon:
                                                Q1 - students feeling they belong in
the math class
                                2. Too much influence from people who have never
00:22:24
                Darin Gundy:
been a teacher
00:22:26
                Jennifer Lagrange:
                                        1. Kids wanting to learn about math - not
thinking they need to stop b/c they can't do it.
00:22:28
                L Hatch:
                                Q2 Too many ways to learn concepts that are
developmentally above the way children can learn.
00:22:30
                Wendy Larmour: Poor math ability leads to flawed decision making.
00:22:30
                Anne Marie Nicoll-Turner:
                                                Q2 arguments about how to teach it,
how kids learn, and timed tests. Not enough teachers
00:22:33
                Yi Law Chan:
                                02: State and National Exams do not accurately
measure the Mathematical Practices and therefore focus on discrete skills
                Deepa Bharath: Q2 Many adults do not see themselves as math
00:22:33
thinkers and doer. So... Q1 goal is to have all adults see themselves as mathematical
.. and math as human experience
00:22:45
                Lisa Hillstrom: One problem I see is teachers consistently
underestimating their students' ability to do math
00:22:45
                Patricia Ishihara:
                                        Q2: Insufficient understanding by
state/legislative leaders as to what good instruction and professional development
looks like
00:22:50
                Mary Mooney:
                                My goal is to increase the number of stories in
which students describe math class with great memories.
00:22:51
                Kathy Pilger:
                                How do we encourage more young people to become math
teachers?
00:22:51
                Rvan Pellow:
                                Solving problems
                                Are the resources linked here?
00:22:52
                Matt Santos:
00:22:53
                Lorie Huff:
                                Q2 - Many people want to go back to one process for
getting answers - step by step guidance. Getting students to get answer but not make
sense of the mathematics.
00:22:53
                Virginia Kuryla:
                                        Q2: Lack of qualified staff, overworked
teachers, covid gaps that have exacerbated learning gaps for students who were
already "struggling"
00:22:59
                Taylor Simon:
                                Q1: to have as many students thinking about math as
possible and for all students to think of themselves as doers of mathematics
                                        Q2 Lack of support for teachers to teach in
00:23:09
                Koren Obenshain:
a way that supports the type of understanding the Q1 wants
00:23:15
                Patricia Busta: 02 Professional learning for all teachers-
especially elementary teachers around mathematical learning progressions.
                Ken Krehbiel:
00:23:36
                                Hi Joleigh
00:24:07
                Owen Bissell:
                                2. Gaps that start early and create ongoing gaps as
students progress through school. Low mathematical confidence for many teachers and
parents - and lack of appropriate support for them. Students relying on algorithmic
methods rather than understanding.
00:24:20
                Jayme Lorenz:
```

```
https://docs.google.com/document/d/1woMk-JcH2zConLQpfnjDGDqu wdKQ43se84IhMrulSU/edit
?usp=drive link
00:24:28
                Patricia Ishihara:
                                        Q2: Mathematics needs a marketing campaign
so that we can begin to change mindsets around mathematics, and put on the same
level of support as English literacy
                Jayme Lorenz:
00:24:35
https://docs.google.com/document/d/1woMk-JcH2zConLQpfnjDGDqu wdKQ43se84IhMrulSU/edit
?usp=drive link
00:26:52
                                        and this is how some curriculum in framed
                Danielle Troullier:
and it feels troubling
00:27:36
                Kimberly Yoak:
                                \otimes
00:28:09
                Kim Lee:
                                YES
                Nicole Rigelman:
                                        I appreciate you saying that out loud re:
00:28:10
research humility.
00:28:13
                Sara Van Der Werf:
                                        Yes! Preach Rachel
                Karen Gayle:
                                love the graphic
00:28:14
00:28:16
                Patricia Ishihara:
                                        Oh yes!....
                Matt Santos:
                                Yes - this is nonstop! Ex. Science of Math Folks
00:28:22
00:28:27
                Kevin Moore:
                                Indeed
                Sharon Soule:
                                I do love the graphic!
00:29:07
00:29:13
                Shelly Jones:
                                Yes, the gloves are great!
00:29:18
                AnnElise Record:
                                        Love it!
00:29:25
                Brynda Aker:
                                the graphic is right on!
                Joleigh Honey: Yes, graphic is spot on... and yet I wish they were
00:30:11
more "intertwined"... like that we could all see the importance of when and where
for BOTH, not mutually exclusive.
                                How did you land on these exact definitions?
00:30:14
                Shaun Kaanoi:
                Margaret Williams:
00:31:56
                                        ][
00:32:05
                Margaret Williams:
                Kevin Moore:
                                Inquiry is not without moments of explicit
00:32:11
instruction.
                Emily Stewart: I'm guessing this is true for reading research too
00:32:43
(that is has limitations and no definite "truths"), but let's let people fight about
reading...
00:33:34
                Jocelyn Robbins:
                                        YES!!!
00:33:49
                Brynda Aker:
                                I wonder about the same things you do!
                Norma Borenstein Gordon:
                                                Yoga and dead bug! Has so many
00:34:04
variations and accommodations!
                                Doesn't have to be one way! Everyone is different!
                Annie Fetter:
                                That picture suggests that I do Dead Bug wrong!
00:34:14
00:34:24
                Kimberly Yoak:
                                Yes!!!!!
00:34:29
                Kimberly Yoak:
                                RIght!!!!
                                Yes Norma!
00:34:41
                Amy Lucenta:
00:34:44
                Marcus Helmer:
                                Depends on your health goals. :)
                Norma Borenstein Gordon:
                                                And can work feel differently on any
00:34:45
given day!
00:35:02
                Norma Borenstein Gordon:
                                                Hi Amv!
00:35:12
                Sara Van Der Werf:
                                        Talking about 'dead bug' exercises was not
on my January 2024 bingo card. lol
00:35:34
                Dianna Crescitelli:
                                        (2)
00:35:40
                Norma Borenstein Gordon:
                                                LOL Sara!
```

```
00:36:02
                Dawn Dibley:
                              Sara - I want to see your card on Saturday.
                Mark Nechanicky:
                                        Agree Dawn.
00:36:15
00:36:20
                Patricia Wallace:
                                        Me too!
00:36:49
                Sara Van Der Werf:
                                        Alright Patty, Mark and Dawn (may or may
not need to quick create one). Looking forward to seeing you all IRL
00:37:18
                Kimberly Yoak: Although the descriptors on those strands of
proficiency are edited from the original source
                Kimberly Yoak: Edited in highly intentional ways, I would argue
00:37:39
                Jayme Lorenz:
00:37:56
https://docs.google.com/document/d/1woMk-JcH2zConLQpfnjDGDqu wdKQ43se84IhMrulSU/edit
?usp=drive link
                Jennifer Hunt: Notice and Wonder TM.
00:37:58
00:38:31
                Dawn Diblev:
                                Annie F. Should get a 5 cents every time someone
says "Notice and Wonder."
00:38:37
                Norma Borenstein Gordon:
                                                Sarah - here's a quick way to make
one: https://myfreebingocards.com/bingo-card-generator/edit/yc8jn
                                        I noticed the "misconception" is stated in
00:38:39
                Joshua McKnight:
an extreme (strawman) that I have never heard from any research and that their
"truth" seems much more middle of the road in what seems to be a false dichotomy.
                Diana Hughes:
                                "All learners"
00:38:41
00:38:43
                Jennifer Hunt: ;)
00:38:43
                Christina Lincoln-Moore:
                                                Truth: explicit instruction ...for ALL
learners. WTF
00:39:07
                Kimberly Yoak: I wonder how explicit instruction might facilitate
creativity... ????
00:39:09
                Dawn Barson:
                                Very bold claims. Wonder what data they have to
back this.
00:39:17
                Nadia Walker:
                                I wonder how 'explicit instruction' facilitates
creativity? Do they claim that inquiry based instruction doesn't?
                Emily Stewart: Why do we even label some students as "struggling?"
Where did that come from? Just because you aren't lock step with peers, you are
struggling? Did the kids who didn't walk as fast as peers get called "struggling
walkers?"
00:39:18
                Danielle Troullier:
                                        Who are these students and what is the
context they are referring to
00:39:23
                Megan McBride: I'm wondering where student creativity happens
during explicit instruction.
                Jody Vanderloo: The words "all learners" makes me very skeptical...
00:39:26
00:39:33
                Rebecca Hill:
                                Wonder how sequencing of tasks can lead to
creativity?
00:39:34
                Leah Plack:
                                Raise your hand if you've seen these statements not
be true 😂 😂
                Patricia Busta: Effective for all learners- nothing is one size fits
00:39:36
all
00:39:52
                Diana Hughes:
                                Wondering: where'd the list of misconceptions come
from?
                Rebecca Hill:
00:39:53
                                I wonder HOW IS FLUENCY DEFINED
                                        Where's the "research" for these statements?
00:40:01
                Dianna Crescitelli:
What KINDS of feelings are increasing?!?!
00:40:12
                Margaret Williams:
                                        No words!
```

```
00:40:13
               Norma Borenstein Gordon:
                                               This isn't a balanced page - it's
100% explicit instruction leaning
00:40:14
               Matt Santos:
                                YES! Make this a series
               Nicola Vitale: There are some implicit messages too - that inquiry
00:40:21
does not have sequencing of tasks in increment of difficulty
                Paula Clark:
                                In inquiry learning, students are not expected to
"discover" on their own
               Nadia Walker:
                                Yes ... I'm here for your rebuttal Rachel!
00:40:21
                                I notice a lot of claims, but the research is hidden
               Annie Fetter:
00:40:30
behind a footnote thing.
                Jana Rupp:
                                I wonder if students end up mimicking the teacher's
00:40:30
strategies. Are multiple methods celebrated? Are the students thinking critically?
               Virginia Kuryla:
                                        I wonder how explicit instruction
00:40:30
facilitates creativity.
00:40:39
               Sharon Soule:
                                I just notice that it makes me mad.
                Jennifer Lagrange:
                                       How could it be a misconception that
00:40:43
students learn better when they are curious and interested? Is engagement or
motivation not helpful?
                                I wonder what they consider math knowledge to entail
00:41:03
               Mike Steele:
00:41:06
                                I was just thinking the same thing Jennifer!
               Kim Lee:
00:41:09
               Donna Marie Young:
                                        In explicit instruction students are
provided with correct answers?
00:41:14
               Corina Goodwin: why do we even think that math students in primary
school (or even secondary) should be creative?
                                Those are all pretty young citations
00:41:20
               Molly Daley:
                                I wonder what type of "feelings" inquiry-based
00:41:24
               Paula Clark:
approaches increase
00:41:24
               Kevin Moore:
                                Inquiry instruction is not with moments of explicit
instruction.
               Helen Ritchey: Yes! Please do a webinar that will unpack the
00:41:26
research that supports those misconceptions.
                                       Some of their citations actually refute or
00:41:28
               Joshua McKnight:
fail to support their claims
00:41:31
               Danielle Troullier: increase math achievement based on what
measure?
                                               I wonder what they consider "common"
00:41:33
               Norma Borenstein Gordon:
and what data backs that up
               Florence Chan: I wonder how student achievement is measured in
00:41:37
these studies. Are students assessed on conceptual understanding?
00:41:43
                Kelsey Bartlett:
                                        I had the same questions so I went to the
citations and I read the data MUCH differently than what is stated on the website. I
really appreciate this group- very validating that I'm not the only one
00:41:46
               Mark Nechanicky:
                                        I am hearing that the connections between
the claims and research is not explicit. Ironic.
               Danielle Troullier:
                                        same, Florence
00:41:52
                                       So does the explicit instruction model means
00:42:01
               Rohith Adusumilli:
we are not teaching at all? Students are self-directing their learning is that true?
00:42:07
               Loren Kaplan:
                                If we find citations like these, how do we go and
find the study? I've had trouble doing this in the past.
00:42:44
               Mike Steele:
                                @Loren Google Scholar is a great resource
```

```
00:42:48
                Rohith Adusumilli:
                                         Will this model progressively challenge
students more?
00:42:57
                Rohith Adusumilli:
                                        the explicit instruction model?
00:43:01
                Annie Fetter:
                                You can't make this shit up.
                                LOL ^^^ Annie!
00:43:14
                Kimberly Yoak:
00:43:17
                Sara Van Der Werf:
                                         Annie - they DID make this shit up
                Norma Borenstein Gordon:
                                                 But in fact Annie it seems they are
00:43:20
making it up!
                Kim Lee:
                                Haha
00:43:21
                                Loren - check what resources your local library
00:43:24
                Dawn Dibley:
might have. I have been able to find (and have sent to me) several research studies.
00:43:24
                Patricia Ishihara:
                                         EIC
00:43:25
                Dianna Crescitelli:
                                         ļ
00:43:25
                Rebecca Hill:
                                I KNOW
00:43:29
                Kim Lee:
                                EIC
                Rohith Adusumilli:
00:43:29
                                         explicit
                                Annie....yes!!!
00:43:30
                Emily Stewart:
                Brynda Aker:
                                Explicit
00:43:32
                                The one with instruction
00:43:33
                Molly Daley:
                Cara Hetrick:
                                EXPLICIT!!!
00:43:34
00:43:34
                Rebecca Hill:
                                Of course...
00:43:35
                Lorie Huff:
                                Explicit
                Diana Hughes:
00:43:35
                                I am shocked
                                If there is ZERO guidance, then of course explicit
00:43:36
                Florence Chan:
instruction
00:43:36
                Marcus Helmer:
                                No way
00:43:37
                Karen Gayle:
                                Ha is i explicit instruction
00:43:38
                Rohith Adusumilli:
                                         explicit yes and yes
00:43:39
                Ashlee Treadway:
                                         Explicit-bias revealed
                Kayla Edwards: Explicit.
00:43:39
00:43:40
                Kristina PEREZ: explicit
                Octavia Brauner:
                                         Shocker
00:43:41
00:43:47
                Mark Nechanicky:
                                         My students would call this a no-fun game of
would you rather with false choices.
00:43:49
                Shelly Jones:
                                Surprise!
00:43:51
                Dianna Crescitelli:
                                         BIAS, much?!
                Margaret Williams:
00:44:12
                                         CGI
                                We have not advanced much beyond explicit
00:44:18
                Kevin Moore:
instruction as the general approach to math learning. So, how was this research
conducted? Well...you're explaining it now.
00:44:25
                Dawn Plestina: Agree Margaret
00:44:43
                Nicole Rigelman:
                                         I wish the active facilitation necessary for
discovery learning was more evident to people in classrooms. They have no idea about
all the actions and decisions influencing the interactions.
                Patricia Ishihara:
                                         ED
00:45:03
                Jennifer Lagrange:
00:45:05
                                         GI
                Lorie Huff:
                                Guided Inquiry
00:45:06
00:45:06
                Marcus Helmer:
                                ED
                                enhanced discovery
00:45:08
                Brynda Aker:
00:45:09
                Jana Rupp:
                                Discovery
```

```
00:45:11
                Rebecca Hill:
                                discover
00:45:12
                Florence Chan:
                                Enhanced discovery
00:45:12
                Paula Clark:
                                Enhanced Discovery
00:45:12
                Kevin Moore:
                                Guided
                                        The comparison of unassisted discovery
00:45:14
                Virginia Kuryla:
learning and explicit instruction seems like the researchers may have been looking
for ways to support their pre-conceived notions.
00:45:16
                Ashlee Treadway:
00:45:20
                Emily Hixon:
                                Are teachers giving support through the problem
solving with the EIC? Or just teaching and then leaving students alone?
00:45:25
                Margaret Williams:
                                        Love this
00:45:57
                Leah Plack:
                                Debunking educational either/or thinking is my love
language
                AnnElise Record:
                                        I'm here for it all!
00:46:02
                Norma Borenstein Gordon:
                                                Student voice for the win!
00:46:51
                Kimberly Yoak: Makes sense to me!!!
00:46:55
00:47:02
                Ashlee Treadway:
                                        Student discourse
00:47:03
                Emily Hixon:
                                written or verbal?
                Corina Goodwin: But direct instruction also tries to include many
00:47:29
student responses, no?
00:47:30
                Emily Stewart: So the y predicted that the more teacher thinking
and doing was going to grow student's thinking? That doesn't even make sense if you
really think about it! It's no different than a swim coach or cooking teacher doing
it for you then you magically can do it and understand it!
00:47:47
                Kimberly Yoak: SO similar to K-12 mathematics students in the U.S.
: )
00:47:58
                Dawn Plestina:
                                Oxymoron
                                So "telling" them what they are learning...
00:48:00
                Rebecca Hill:
00:49:46
                Kimberly Yoak:
                                But what do those tests measure? (In this study)
                Shamira Underwood:
                                        I have questions about the teacher ratings
00:49:57
too.
00:49:59
                Rebecca Hill:
                                And teachers self reporting..
00:50:02
                Florence Chan:
                                I would want to know about the teacher surveys
00:50:06
                Norma Borenstein Gordon:
                                                Also limited to K-1 what about 2
-12!
00:50:08
                Nicole Rigelman:
                                       I also wonder about the assessment they used
with such young children
                Emily Stewart: But on the tests, were the tests just measuring
00:50:16
level 1 knowledge stuff or regurgitation of behaviors?
                Anastasia Betts:
                                        What percentage of the student population
00:50:34
are thought to have MD (whether diagnosed or not)?
                Joshua McKnight:
                                        @Betts Some research suggests ~15%
00:51:14
00:51:16
                Mark Nechanicky:
                                        I was already older than the students in the
study from 1998, so it's all good.
                                        No consideration for sociocultural upheaval
00:51:30
                Ashlee Treadway:
in the last 55 years
                Jennifer Smith: Creativity?
00:51:37
                                                Explicit ONLY beneficial to...
00:51:40
                Norma Borenstein Gordon:
00:51:42
                Danielle Troullier:
                                        inquiry approach is a little shaky based on
research
```

```
00:51:49
                Dianna Crescitelli:
                                        Not much is a direct match to the claims.
00:51:52
                Octavia Brauner:
                                        These would be great studies to give to
students in a statistics class and have them determine if these were well designed
studies. And what "claims" can actually be made.
                                "Exceptionally"...
00:51:54
                Rebecca Hill:
00:51:55
                Virginia Kuryla:
                                        For the first grade teachers, did they self
report on their instruction daily? I have lots of questions about this research.
                Diana Hughes:
                                "Exceptionally strong" isn't really supported by
00:52:03
that weak study result...
                Nicola Vitale:
                                Specifically in math? Or is this making a general
00:52:31
claim?
                Sharon Soule:
00:52:32
                                Has anybody studied inquiry for struggling students?
                Kevin Moore:
                                But the general mode of instruction is explicit
00:53:57
instruction, so there would be abundant research of explicit instruction.
                                When we talk about math achievement tests how much
00:54:05
                Brynda Aker:
reading is on the same test?
00:54:27
                Brynda Aker:
                                Meaning, can they read the word problems?
00:54:31
                                @Brynda yes! Confounding variables in assessment are
                Diana Hughes:
killer
                Danielle Troullier:
                                        good question Brynda!
00:54:37
00:54:39
                Diana Hughes:
                                And reading is a huge one
                                LOVE THIS HISTORY OF MATH ED! Thank you!
00:55:12
                Jennifer Hunt:
00:55:17
                Joshua McKnight:
                                        Read her full article for more ;)
00:55:58
                Danielle Troullier:
                                        Wow this is so enlightening
                Elise van der Jagt:
                                        Project Follow Through is also being used
00:56:00
extensively to support DI for all learners...
00:57:10
                Mike Steele:
                                Project Follow Through is frequently used as the
basis for claims that aren't supported by the study.
00:57:34
                Dianna Crescitelli:
                Darin Gundy:
                                Is the year supposed to be 2017?
00:58:13
                Sharon Soule:
                                That's because Project Follow Through was conducted
00:58:29
by the National Institute for Direct Instruction.
00:58:40
                Elise van der Jagt:
                                        Absolutely Mike
00:58:40
                Diana Hughes:
                                qual
                Marcus Helmer:
                                Mostly mixed methods
00:58:42
00:58:44
                Patricia Ishihara:
                                        quant
                                quantitative
00:58:47
                Brvnda Aker:
00:58:49
                Kimberly Yoak:
                                Mostly quant
                Rebecca Hill:
00:58:49
                                quant
00:58:50
                Koren Obenshain:
                                        quant
00:58:52
                Nicola Vitale:
                                Quantitative
00:58:54
                Lisa Sobol-Boyle:
                                        quantitative
00:58:54
                Dawn Dibley:
                                Ouant
00:58:55
                Sharon Soule:
                                quantitative
                Kristina PEREZ: quantitative
00:58:57
                Virginia Kuryla:
00:58:57
                                        qualitative
                Margaret Williams:
                                        Of course
00:59:17
                                Gold star for the chat community!
00:59:33
                Annie Fetter:
                                Yes. How do we define mathematics???
00:59:44
                Kimberly Yoak:
00:59:47
                Karen Gayle:
                                WOW
```

```
01:00:04
                Cara Hetrick:
                                This is fascinating
                Diana Hughes:
                                A+ rainbow
01:00:30
                Danielle Troullier:
                                        Cara, it really is fascinating!
01:00:52
01:01:27
                Rebecca Hill:
                                WOW. This is crazy
                                I did my masters thesis on constructivism
01:01:31
                Brynda Aker:
01:01:31
                Shelly Jones:
                                so studies should be higher - sociopolitical - when
01:02:15
                Karen Gayle:
you see what kids are in special ed.
01:04:14
                Kimberly Yoak:
                                (C) (C) (C) (C) (C) (C) (C)
                Brynda Aker:
01:04:17
                                great question!
01:04:26
                Ron Noval:
                                ®®®®®®®®®®®®
01:04:28
                Rosa Serratore: Brava!
01:04:31
                Sharon Soule:
                                How in the world can equity be defined by test
scores?
01:04:35
                Karen Gayle:
                                self fulfilling profecies
                Anastasia Betts:
                                        Also many children are classified as MD who
01:04:54
perhaps have misconceptions but not necessarily a true disability
                Beth Flanigan: Great question to be pondering!
01:04:55
01:04:56
                Ann Moore:
                                I find the opposite. Purely anecdotal, of course.
01:04:58
                Rosa Serratore: Great wondering!!
01:05:06
                Kristen Hayden: We can get past the challenging readers by
practicing what students hear in context. Do they hear equal or non equal groups.
Are they building or unbuilding. Are we finding a part or parts or are we finding
the whole. Even students that have accommodations of having the problem read to.
Made a significant improvement, just by practicing what they hear, and then
expressing what they hear or see in a number sentence. This is huge!
01:05:09
                Dawn Dibley:
                                My theory - explicit instruction is easier to
research because you can make sure you have fidelity of implementation and you can
get a large sample size.
01:05:13
                Ann Moore:
                                It just feels like students with disabilities are
being short changed.
                Kimberly Yoak: I have been in thousands of hours of classes in K-12
01:05:38
in different schools with all demographics. I see very little difference between
how students across achievement levels actually THINK about mathematics.
                Dawn Plestina: The link is meant to be humorous when you have time
01:05:39
to enjoy it. (The point in your presentation where 1966 came up, is when I
remembered this: https://www.youtube.com/watch?v=W6OaYPVueW4
                                @Dawn - an interesting point, sometimes research is
01:05:41
                Diana Hughes:
guided by what's possible to do, study-wise
                Karen Gayle:
                                that is big - if it is one on one
01:06:23
                                can't believe lack of research in secondary
01:06:39
                Karen Gayle:
                                        @Dawn and @Diana I agree, we used to have a
01:07:10
                Mark Nechanicky:
science fair for students precovid and we consumer product testing was
overrepresented because it was the kind of experiment that students had access to
materials and could actually do.
                Kristen Hayden: Grade level readiness!
01:07:14
01:07:27
                Danielle Troullier:
                                        challenging the binary! love this
01:07:28
                Darin Gundy:
                                I have always wondered why most studies only look
at elementary kids.
01:08:14
                Kevin Moore:
                                Good point concerning the items presented on the
```

```
assessments
                Kristen Hayden: Early numeracy
01:08:31
                Margaret Williams:
                                        Explicit for social conventions
01:08:55
01:09:01
                Sharon Soule:
                                @Darin I think the perception is that you can
intervene and make progress there more easily than at the high school level.
                Mike Steele:
                                What truly are the conditions in our classrooms is
01:09:06
worth carefully pondering as well.
                Paula OSullivan:
                                        piaget and three types of knowledge
01:09:08
01:09:11
                Sara Van Der Werf:
                                        I am reading a subliminal 'let's hang up the
inquiry VS explicit fight' in the graphic. Let's stop fighting and ask different
questions (also reminds me of the Dec NCTM President message)
                Danielle Troullier:
01:09:24
                                        Yes Sara!
01:09:41
                Margaret Williams:
                                        Yes
                Kristen Hayden: effective and efficient
01:09:45
                                        it's a Tired argument lol
01:09:51
                Danielle Troullier:
                                Wish I could like comments on this!!
01:09:58
                Amv Lucenta:
                                Which ones kids invent and those kids don't
01:10:07
                Shaun Kaanoi:
invent....love that!
                Nicole Rigelman:
                                        What if we weren't hung up on US Customary
01:10:19
algorithms? Would we see algorithms closer to what students invent?
01:10:20
                Dawn Dibley:
                                Who's willing to keep listening if Rachel is willing
to keep talking?
                Patricia Ishihara:
01:10:36
                                        Me! : D
                                        Can't get enough!
01:10:37
                Jennifer Lagrange:
                Nili Pearlmutter:
                                        me!!!
01:10:39
01:10:40
                Amber Byrd:
                                me too
01:10:42
                Ted Coe:
                                Me!
01:10:42
                Stacie Kaichi-Imamura:
                                        Me!!
01:10:43
                Sharon Soule:
                                me!
                Danielle Troullier:
                                        me lol
01:10:44
                Dawn Plestina: Yes, I am interested.
01:10:46
                Anne Marie Nicoll-Turner:
                                                I'm in! Stay on!
01:10:52
                Dawn Plestina:
                                Baroody!
01:11:06
01:11:13
                Jennifer Hunt:
                                Love Baroody
                Diana Hughes:
                                Please keep going
01:11:21
01:11:23
                Kevin Moore:
                                I think so, Nicole R.
                Dawn Plestina:
                                ILL-
01:11:27
                                        But... we run into trouble when we try to
01:11:40
                Virginia Kuryla:
force inquiry strategies into an explicitly taught model. That number line for "add
to subtract" is only beneficial if the student comes up with it. I see things like
that turned into rote, expected strategies which lose all the thinking...
                Annie Fetter:
                                Concept-Method-Procedure continuum - do kids
understand what we're trying to do? What methods do THEY develop to do that thing?
Can we "make" some efficient procedures out of any of those methods?
01:12:01
                Emily Stewart: Virginia yes!
                Kristen Hayden: scaffolded discourse based on student understanding
01:12:10
                                I love this continuum!
01:12:19
                Sharon Soule:
                                        If this is ending when is part 2?
01:12:28
                Mark Nechanicky:
                Tammi Perez-Rice:
                                        Thank you!
01:12:32
01:12:33
                Kevin Moore:
                                It's both. It's always both in guided inquiry
```

```
learning.
                Kavla Edwards:
                                Thank you, Dr. Lambert!
01:12:36
01:12:38
                Brigid O'Donnell:
                                         AMAZING! Thank you!
01:12:38
                Lindsay Franklin:
                                         Thank you!
                Jolene Hudson:
01:12:39
                                Thank you!
01:12:40
                Diana Hughes:
                                Not sorry!
01:12:40
                Marcus Helmer:
                                Thank you!
                M Romanelli:
                                Thank you!
01:12:41
                Miles Cowles:
01:12:42
                                Thank you
                Rebecca Hill:
                                 Thank you so much! This was amazing
01:12:43
01:12:44
                Shaun Kaanoi:
                                Mahalo nui!
                                Please start a podcast!
01:12:44
                Emily Stewart:
                Mike Steele:
01:12:45
                                Guiltv
01:12:46
                Leah Plack:
                                 This was excellent!
                Sherri Jones:
01:12:46
                                 thank you!
                Koren Obenshain:
                                         Thank you!
01:12:47
01:12:47
                Dawn Dibley:
                                Thank you!
                Jamie Veraldi:
                                Thank you! Very informative
01:12:47
                                Thank You!!!!
01:12:47
                Becky Unker:
                Stacie Kaichi-Imamura: Thank you!
01:12:47
01:12:48
                Danielle Troullier:
                                         This was excellent thank you!!!!!
01:12:48
                Kim Blaise:
                                Thanks!
01:12:49
                Monique Cabellon:
                                         Thank you Rachel! This is good stuff. As
always.
                Nili Pearlmutter:
                                         Thank you - this was so helpful!!
01:12:50
01:12:51
                Nicola Vitale: Thank You!
01:12:51
                Anne Marie Nicoll-Turner:
                                                 Thank you!
01:12:51
                Lisa Tibbetts: I love the continuum.
01:12:51
                Jana Rupp:
                                 Thank you!
                Trena Wilkerson:
                                         Exceptional! Thanks for the opportunity to
01:12:51
think through this.
                Aicha Weiss:
                                 Thank you !!!!
01:12:51
01:12:52
                Rebecca Herbert:
                                         Thank you very much!
01:12:52
                Chonda Long:
                                That was great, thanks!
                Margaret Williams:
                                         Thank you!
01:12:52
                Kathleen Hubbard:
01:12:52
                                         Thank you!
                                         Thank you so much for this!!
01:12:53
                Diann Christensen:
                                 Thanks!!
01:12:53
                Amy Lucenta:
                Kevin Moore:
                                 Thank you.
01:12:53
                                Thank you, this was excellent
01:12:54
                Diana Hughes:
                Patricia Ishihara:
01:12:55
                                         Thank you!
                Kimberly Yoak:
                                This was fabulous!!!
01:12:55
01:12:56
                Sharon Soule:
                                 Thank you!!
                Barbara Weidus: Awesome!!
01:12:56
01:12:57
                Jenny Lane:
                                 Thank you!
                Elise van der Jagt:
                                         Wonderful! Thank you!
01:12:58
                Liesl McConchie:
01:12:58
                Corina Goodwin: I would hypothesize that we need to use explicit
01:13:02
instruction to introduce new topics and then gradually shift toward more
inquiry-based learning once students have some foundational understanding
```

```
01:13:03
                Ted Coe:
                                Thank you!
                Kristina PEREZ: Thank you
01:13:04
                Kristen Hayden: thank you
01:13:05
                Kendra Edwards: Thank you
01:13:06
01:13:06
                Amy Shah:
                                Thank you!
                Tina Lemmens:
                                Thank you!
01:13:06
01:13:09
                Dora Trujillo:
                                Thank you!!!
                Suzanne Ebrahimian:
                                        Thank you Rachel!!! 🐵
01:13:10
                                        Thank you!!
                Kricket McClure:
01:13:11
                Megan McBride: Thank you!
01:13:11
01:13:13
                Robert Kaplinsky:
                                        Great job, Rachel. I have waited for this
for a long time and am very grateful.
                Jessica Huber: Thank you
01:13:14
                                Thank you - this was fabulous!
01:13:14
                Sharon Seeger:
01:13:19
                Liesl McConchie:
                                         Christine Fichera:
                                        So much to think about! Thank you!
01:13:19
01:13:19
                Latrenda Knighten:
                                        Thanks for a wonderful session!
                                This was awesome - thank you!
01:13:25
                Alix Duggins:
01:13:27
                Joleigh Honey: Thank you Rachel-- how did the time go by so
quickly!
01:13:28
                Deepa Bharath: Thank you Rachel!
01:13:36
                Nicole Rigelman:
                                        Thank you @ Rachel. Love hearing how your
thinking has continued...
                                        Thank you! What is the best resource to
                Jennifer Lagrange:
01:13:37
guide our work with kids with disabilities? IES?
01:13:44
                Ron Noval:
                                Worth the wait! ⊕⊕⊕
01:13:45
                Maria Yanez:
                                Thanks
01:13:51
                Tara Fulton:
                                Thank you, Rachel!
01:13:51
                Sara Van Der Werf:
                                        Thanks Rachel. Thanks for your research.
Thanks for being brave. Thanks Math Community for entering with a spirit of
learning.
                L Hatch:
                                Thank you! Informative.
01:13:55
                Brynda Aker:
                                Rachel, would you say that it's still beneficial to
01:13:58
look at the What Works Clearinghouse?
                Joleigh Honey:
                                @Sara- yes!
01:14:11
                                An Ignite video my Math Forum colleague Max did
01:14:16
                Annie Fetter:
about Concept-Method Procedure: https://www.youtube.com/watch?v=mUKbL OL -Q
                                        (and sorry if I was distracting in the chat,
01:14:26
                Sara Van Der Werf:
off to make a bingo board for Saturday)
                Daniel Irving:
                                Thank you for a wonderful session!
01:14:26
01:14:30
                Lorie Huff:
                                Thank you!
01:14:44
                Carolyn Snook:
                                Thank you!
01:14:48
                Jennifer Smith: Thank you so much
                Rosa Serratore: Yes. Wondering same as Brynda
01:14:50
                Liz Stamson:
                                Thanks so much!
01:14:51
                                Thank you so much Rachel!
01:14:53
                Chonda Long:
                Ashlee Treadway:
                                        Thank you!
01:14:54
01:15:01
                Ryan Pellow:
                                Thank you!
                Jeffrey Linder: Thank you Rachel!
01:15:04
01:15:06
                Erin Mercer:
                                What are your thoughts on C-R-A instructional model?
```

```
01:15:10
                Jimmy Giff:
                                thank you for this! Very insightful.
                                                Thank you!
                Norma Borenstein Gordon:
01:15:10
01:15:14
                Anastasia Betts:
                                        Thank you sooooo much!!
                                        Thank you, looking forward to going over
01:15:28
                Paula OSullivan:
this again, so much to absorb!
                Ana Lupton Floyd:
                                        This is so helpful! Would love to hear more
01:15:35
at another time.
                  Rachel - please do more sessions!
                Karen Gayle:
                                seeing what works in other countries is interesting.
01:15:36
                Norma Borenstein Gordon:
                                                When will the book come out?
01:15:42
                Trena Wilkerson:
                                        Cannot wait to get your book!
01:15:49
                                I can't wait for your book!!
01:15:50
                Sharon Soule:
                                Where and when can we get our hands on your book?
01:15:51
                Kim Smith:
                Deepa Bharath:
                                Can't wait!
01:15:57
01:15:59
                Kim Smith:
                                ty
01:16:00
                Joshua McKnight:
                                        But good practices for students apply to our
MLD student too
01:16:00
                Brigid O'Donnell:
                                        We are looking to adopt a new math program-
this is such an important lens!
                Joleigh Honey: March 9th! link again?
01:16:02
                Norma Borenstein Gordon:
                                                Heading over to pre-order!
01:16:02
01:16:10
                Danielle Troullier:
                                        book club with the author??
01:16:19
                Rosa Serratore: Thank you and thanks nctm
01:16:30
                Annie Fetter:
                                Thanks, Rachel!
                Patricia Ishihara:
                                        Mahalo nui!
01:16:31
                Sara Van Der Werf:
                                        Thanks NCTM for making this open to all
01:16:31
01:16:31
                Kim Smith:
                                Can we see the QR Code
                Lisa Hillstrom: Thank you!
01:16:32
01:16:32
                Shamira Underwood:
                                        Thank you!
01:16:33
                Mary Jones:
                                Thank you!
                Rohith Adusumilli:
                                        thank you
01:16:33
                Joleigh Honey: Thank you!!!
01:16:35
                Dawn Plestina:
                                Thank YOU!
01:16:35
                Rohith Adusumilli:
01:16:40
                                        bye
01:16:41
                Anita Brown:
                                bve
                Anita Brown:
                                thank you
01:16:42
01:16:43
                Nicola Vitale:
                                Bye thanks!
```