

00:24:47 Trena Wilkerson: Hello from Waco, TX!
00:24:49 Cindy Bryant: Hello from Springfield, MO. Please set your chat
To: "All panelists and attendees" so everyone can see your posts.
00:25:11 Tanya Landry: Hi from Baton Rouge!
00:25:13 dana dulzo: hello from dana novi mi
00:25:19 Ma. Lorena Aloquina: greetings from the Philippines!
00:25:20 Lisa Parker: Charlotte
00:25:22 Randolph Chapman: Hi from NYC
00:25:24 India Puch: India from Columbia, SC day 64!!!
00:25:25 Emily Kavanagh: Hello from Columbia, MD
00:25:25 Lisa Parker: charlotte nc
00:25:26 marissa heitman: hello from Everett WA. it is 4 pm here and I
have been to 34
00:25:27 Saul Gonzalez: Hello from Bakersfield, CA!
00:25:30 Donna Misciagna: Hello from Tucson, AZ.
00:25:31 Bryan Duffey: Hi from Philadelphia!
00:25:31 Wendy Kraft: Silverdale, WA
00:25:33 NITIN MALVIYA: Hello from India
00:25:35 Tamara Pringle: Hello from Ontario, Canada
00:25:35 Katelyn Devine: Hey from Richmond, VA
00:25:35 Laurie Harrell: hi from Harpers Ferry, WV
00:25:36 Maria Villagomez: Sacramento CA
00:25:36 Michael Lanstrum: Hello from Cleveland, OH
00:25:36 Nancy Townsend: Robeson County, NC Math 2
00:25:37 Rafiq Zulkarnaen: hello from Indonesia
00:25:38 Rosanne Marino: Hello from SouthEast Massachusetts!
00:25:38 Phil Kuchinsky: Chicago
00:25:39 Sharon Black-MacKinnon: good evening from NB, Canada
00:25:40 Bill Hudson: Hello from Fountain Inn, SC
00:25:40 Emily Kavanagh: Lost count but I think day 75
00:25:42 Tracy Stoldt: Michigan
00:25:43 Robert Berry: Hi all Charlottesvile, VA
00:25:43 jeanine colwell: hello from Newport NC I have been to over 50
webinars
00:25:44 Lance Brauchla: Hello from IN!
00:25:45 Daniel Irving: Hello from North Providence, RI!
00:25:47 Lorie Huff: Hello from Fayetteville, Arkansas
00:25:48 Chonda Long: Hello from Northern VA
00:25:53 Honey Sacro Swem: Hello from Redlands, CA
00:25:55 Marilu Deal: Ottawa, Ontario, Canada
00:26:07 Evangeline Pabulayan: hello from PA
00:26:07 Bridget Falcone: Arlington VA
00:26:08 Lesly Brown: Hello from Tennessee!
00:26:09 Gloria Flores: Hello from Texas
00:26:12 Melanie Dickson: I always forget to change it lol!
00:26:13 Josephine Romero: Dallas Texas
00:26:13 Pamela Liegl: Hi from Streator, IL
00:26:16 LANY JAMERO: good morning from philippines
00:26:16 beth blumberg: It is past day 75... they already announced that
00:26:18 Cheryl Williams: Hello from Southwest Virginia

00:26:21 Margarito Valdez: Hello to all from Illinois USA
00:26:23 Dalila Rivera: Hi from Kingsville,Tx new NCTM member now!
00:26:23 Aleta Doss: Hi from Sandy OR
00:26:23 Michael Gougis: Chicago
00:26:24 Emerlina Binuya: Hi! I'm Emerlina from Petersburg, VA.
00:26:28 Wanda Parker: Hi from Virginia!
00:26:29 Faisal El Anzaoui: Faisal VA
00:26:31 Henry Kepner: hank Kepner
00:26:41 Maria Dolores Estravez: Hello from Fort Washington, MD
00:26:43 Justin Klinger: Hello from IL
00:26:51 Jeff Shih: hi from las vegas! hi delise!
00:26:59 Mariella Cacho: Rockville, MD
00:27:25 Gurpreet Sahmbi: Toronto ON!
00:27:30 tracey simmons: Hello from Queens, NY
00:27:37 Macobia Harris: Hello from Desoto, TX
00:27:39 Lesly Brown: Good evening, and thank you for these fantastic
webinars!
00:27:41 Rishabh Joshi: hello to everyone..
00:27:46 Rishabh Joshi: from india
00:27:47 Michael Chrzan: What up doe?! from Detroit, MI!
00:28:05 Jim Wysocki: Hello from Portland, OR!
00:28:08 Susan Danskin: hi from Ithaca, NY
00:28:19 Kathy Rubendall: Hi from Hoboken, NJ
00:28:25 bonnie manzon: yo
00:28:29 Walter Shaner: Good Morning from Auckland, New Zealand!
00:28:54 Aya Zvaigzne: Cheers from Nashville, TN
00:28:56 Cindy Bryant: So glad all of you could join today!
00:29:27 Ana Waisanen: Thank for having us.
00:29:34 Linda Koval: Hello from Bealeton, VA!
00:29:35 Janet Gidding: Hi From NYC - midtown
00:29:46 Kathryn Del Prete: Hi from Long Beach, NY
00:29:49 Mary France Imperial: Hello Philippines
00:29:54 Patrick Honner: Hi everyone!
00:29:59 Jet Yeung: Hello Everyone--Jet from Henderson, Nevada
00:30:00 Ana Waisanen: Good evening from Deltona, Florida.
00:30:13 Shonel Fraser: Good Day from NYC
00:32:23 Nora Marasigan: Hello from Philippines.
00:33:04 Arpi Lajinian: Hello from NJ
00:33:04 Zuobin Tang: Hello from Brooklyn, NY
00:33:34 Vikas Saxena: Greetings from VIKAS SAXENA India.
00:33:37 Wisnu Siwi Satiti: Hello everyone! Good morning from Indonesia
00:33:47 Delise Andrews: Welcome everyone! Be sure to change your chat to
"All panelists and attendees" so everyone can see your chates.
00:33:53 Delise Andrews: *chats
00:34:09 Maryanna Biedermann: Good evening from Massachusetts!
00:34:21 Jennifer Gonzales: Good morning. Watching from Philippines
00:34:39 Teresa Hopkins: Good evening from RI, USA
00:34:47 Janet Gidding: I use Starred Belly Speeches from Dr Suess.
00:34:56 Mary France Imperial: Hi @Jennifer gonzales
00:34:58 Aya Zvaigzne: @Vika Saxena Where in India are you? It is a very

big and beautiful country.

00:35:04 Genesis Docena: Hello from Washington DC
00:35:22 Rebecca Flora: Greetings from Redmond, WA
00:35:25 Li Li: Please share link in chat
00:35:28 Justin Klinger: Scratch is great!! I have been using for 2 years
00:35:53 Emily Kavanagh: I like Scratch also
00:36:18 Jennifer Gonzales: Hi mam @Mary France thanks for inviting me.
00:37:03 Maria Dolores Estravez: Is Scratch free?
00:37:18 Ashley Goetz: Yes, Scratch is free. One of the many perks of Scratch.
00:37:29 Bowman Dickson: yes Maria!
00:37:35 Maria Dolores Estravez: Thanks!
00:38:28 Linda Koval: I am not a computer science teacher, but this is really neat. I have no idea what Scratch. I think that I will try this with my Algebra II Trig Honors students.
00:38:48 Mike Larson: There is actually a Scratch community and students can easily share their code through a link
00:39:37 Mike Larson: Not sure about being auditory/accessible? Anyone out there have insights?
00:40:10 Rosanne Marino: Do MIT students offer online support to users/teachers? I used to program in the 1980's so much has changed except the logic...
00:40:27 Valentina Sorescu: Valentina Sorescu, AYA, Chicago, IL
00:40:30 Betty Stallings: Hello from Virginia
00:41:13 Mike Larson: There is actually a Scratch community and students can easily share their code through a link
Not sure about being auditory/accessible? Anyone out there have insights?

00:41:15 LeAnna Deveaux-Miller: Good Evening: From NEW PROVIDENCE, THE BAHAMAS
00:41:21 Dominador Guillermo: This is really rich in content you can play around with.
00:41:43 Jorge Veloso: Hi from Angola.
00:41:46 Linda Koval: It will help with the domain!
00:42:00 David Barnes: @Mike and @Ashley - Make sure you change chat to all panelists AND Attendees.
00:42:07 Olga Kosheleva: Hi from El Paso, TX.
00:42:27 Mike Larson: There is actually a Scratch community and students can easily share their code through a link
Not sure about being auditory/accessible? Anyone out there have insights?

00:42:37 Janet Gidding: Good stuff
00:42:52 Ihor Charischak: @Linda You'll probably discover that some of your students will be familiar with Scratch!
00:43:28 Rogelio Lapulapu: From Rogelio..Good morning everyone.. from Philippines.
00:43:39 Linda Koval: Thank you, Ihor.
00:44:29 Dominador Guillermo: Especially now when a lot of lessons are done in digital delivery.
00:46:27 Teresa Hopkins: Could we have a copy of these slides?

00:46:31 Patrick Honner: Hi! I accidentally deleted someone's Q/A question about whether Scratch can do more complicated functions. The answer is absolutely! Scratch can implement pretty much all mathematical functions.

00:46:47 Patrick Honner: P.S. Sorry for accidentally deleting your question!

00:47:13 Delise Andrews: Participants who are just joining, please change your chat settings to "All panelists and attendees" so everyone can see your chats.

00:47:40 Justin Klinger: I like that last slide

00:48:34 Rachel Phillips: are these 'tasks' shareable in Scratch that we can copy and use in our classes?

00:48:58 Janet Gidding: The repeat

00:48:58 Cindy Bryant: Please set your chat To: "All panelists and attendees" so everyone can see your posts.

00:49:08 Saul Gonzalez: Right side is more efficient

00:49:23 Stephenia Courtney: the right

00:49:44 Delise Andrews: This has such a nice connection to equivalent expressions!

00:50:18 DENİZ ÇAKIR: sorry to be late! Hello from Yurkey

00:50:29 Mark Phipps: where is pen up and pen down

00:50:37 Maria Dolores Estravez: This is great activity for discussing basic characteristics of different polygons!

00:51:29 Teresa Hopkins: Are these tasks available for us to use?

00:51:30 Rosanne Marino: Lines up well with 6th grade in Massachusetts!

00:52:02 Maryanna Biedermann: Roseanne I agree with that!

00:52:03 Janet Gidding: So why wasn't the angle turn for the square 270?

00:52:14 Mark Phipps: Turning right

00:52:26 Mark Phipps: clockwise

00:52:44 Chris Harrow: @Janet ... turning from the direction already facing...

00:52:46 Stephenia Courtney: Very interesting

00:52:49 Janet Gidding: Ah right, thanks!

00:52:49 Cherish Alberts: Exterior angle and interior sum to 180

00:53:18 Delise Andrews: It helps to image the perspective of the character to see the exterior angle.

00:54:51 Stephenia Courtney: interior exterior equals 180

00:55:16 Mark Phipps: Where's the pen

00:55:47 Patrick Honner: In the latest version of Scratch the Pen is an additional package you have to add, but it's easy to do

00:55:57 Patrick Honner: In the latest version of Scratch the Pen is an additional package you have to add, but it's easy to do

00:56:08 Justin Klinger: I love that activity

00:56:40 Sandra Bleecker: @Mark – each sprite has a pen – it draws from the costume center of the sprite (which can be changed)

00:56:43 Pam Crombar: How fun! I have two classes that would love to use coding.

00:56:49 Stephenia Courtney: awesome

00:56:59 Li Li: Congrats Mike

00:57:00 Dominador Guillermo: This now seems going too fast as so many ideas pop up in my head.

00:57:04 Janet Gidding: Thanks Ashley

00:57:07 Arpi Lajinian: Congrats!
00:57:12 Honey Sacro Swem: Congrats! Welcome to SoCal
00:57:15 Linda Koval: Congratulations, Mike!
00:57:32 Lance Brauchla: Congrats!
00:58:10 Patrick Honner: Sorry if things are moving fast, Dominador! We'll provide some resources for each task at the end for you to work with.
00:58:43 Patrick Honner: Sorry if things are moving fast, Dominador! We'll provide some resources for each task at the end for you to work with.

00:59:27 Delise Andrews: Patrick, it looks like your chat is still set to all panelists instead of all panelists and attendees.
00:59:39 Patrick Honner: Sorry if things are moving fast, Dominador! We'll provide some resources for each task at the end for you to work with.

01:00:01 Aya Zvaigzne: Thank you.
01:00:05 Pam Crombar: That would be great Patrick.
01:00:17 Melonie D Smith: That's wonderful! Congratulations!
01:00:19 Rosanne Marino: Free online dice are out there if we search...
01:01:07 Patrick Honner: Free online dice are out there, but how much cooler is it to have students build the dice themselves?
01:01:15 Dominador Guillermo: trial results is set by you as a variable?
01:01:33 Patrick Honner: Trial_results is a variable Mike created, yes
01:01:48 Rosanne Marino: I teach 7th grade and would love kids to sink their teeth into it...
01:04:35 Susan Bardenhagen: And then there are polyhedral dice. Or, a die inside a die!
01:05:23 Teresa Hopkins: How do you know it's an increment? The arrow next to success is pointing down.
01:05:44 Dominador Guillermo: of course
01:05:59 Maria Dolores Estravez: I would definitely explore these activities in Scratch
01:06:05 Patrick Honner: That "down arrow" is indicating a menu you can choose from
01:06:17 Bridget Falcone: @teresa the positive one increases it
01:06:18 Janet Gidding: Good stuff Mike
01:06:23 Dominador Guillermo: its the greatest achievement for them to break a program
01:06:27 Dominador Guillermo: :)
01:06:39 Teresa Hopkins: @Bridget - OK
01:06:44 Honey Sacro Swem: Love that quote
01:07:38 Cindy Bryant: Thoughtful insight from messy data...great quote.
01:08:05 Mary France Imperial: Hi @honey sacro :)
01:08:24 Honey Sacro Swem: Hi @Mary France Imperial
01:09:00 Janet Gidding: Will Scratch import / export to the TI calculators?
01:09:54 Marilu Deal: free throws
01:09:54 Bridget Falcone: Basketball -
01:09:55 Justin Klinger: free throws
01:09:58 Lauren Ludwig: Free throws
01:10:01 Bridget Falcone: Field goal
01:10:01 Bowman Dickson: 44% free throw shooter!

01:10:07 Sharon Black-MacKinnon: basketball
01:10:11 Melanie Dickson: sports
01:10:13 Patrick Honner: Scratch exports data as simple text files, which you
can transfer to a calculator or any other program
01:10:13 Li Li: statistical simulations like finding difference of sample
means
01:10:14 Stephenia Courtney: basketball
01:10:20 Wanda Parker: basketball
01:10:30 Jet Yeung: baseball free throws
01:10:33 Saul Gonzalez: probability lands more than 44% then the shooter
makes the shot
01:10:37 Patrick Honner: Hint: Mike lives in California
01:10:40 Sharon Black-MacKinnon: .43
01:10:55 Sharon Black-MacKinnon: free throws
01:10:59 Janet Gidding: Fun
01:11:05 Cindy Bryant: Nice!!!
01:11:11 Charles Galligan: Great example...
01:11:14 marissa heitman: wow nice
01:11:19 Rosanne Marino: It was fun to watch this year. But judges...
01:11:53 Maryanna Biedermann: Is Scratch still doing training?
01:12:14 Pamela Liegl: Patrick, Ashley, and Mike, great job! So much fun!
Thanks!
01:12:31 Maria Dolores Estravez: @Maryanna thank you for asking that
question :)
01:13:46 Teresa Hopkins: I think this would keep the students' interest -
especially for remote learning!
01:14:24 Wanda Parker: I agree Teresa
01:14:49 Ashley Goetz: @Maryanna, if you go to the Scratch website they
have a "Scratch for Educators" tab that gives many resources for teachers and
students. There are many training and tutorial videos to learn how to create
programs.
01:15:01 Lisa Parker: yes, my students want and need real world
applications to functions
01:15:23 Lance Brauchla: Love the NON-Routine!
01:15:27 Dominador Guillermo: And I think the interest of most students is
strongly backed up by a lot of interest in coding itself
01:15:29 Maryanna Biedermann: @Ashley, Thank you
01:15:50 Shantay Graham: @Ashley. Thanks
01:16:23 Chonda Long: Here is the link to the handout -
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Aug19WebinarHandout.pdf
01:16:34 David Barnes: Here is the link to the handout for tonight's
session -
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Aug19WebinarHandout.pdf
01:17:01 Janet Gidding: Thanks for the link
01:17:01 Bridget Falcone: Would you suggest to use these lessons in
synchronous or asynchronous teaching?
01:17:04 Katelyn Devine: This has been amazing. As someone who loves using
robots and drones in math, this definitely gives me some good ideas to still

incorporate computer science standards which are so important for our students!

01:17:29 Janet Gidding: Cool, Katelyn - I want to take your math class!

01:17:41 Josephine Romero: you can use scratch to program lego EV3 robots

01:17:41 David Barnes: Here is the link to the handout for tonight's session -
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/Aug19WebinarHandout.pdf

01:17:43 Chonda Long: @ Tara It will be posted at www.nctm.org/100 tomorrow

01:17:58 Marilu Deal: Thank you! Such amazing suggestions.

01:18:05 Vikas Saxena: Thanks to NCTM and all presenters. wonderful and interesting session. Thanks Vikas Saxena

01:18:08 Carole Receveaux: MERCI

01:18:10 Elinor Sullivan: This was great. Thank you so much!

01:18:27 Anny Padilla: Excellent!!

01:18:34 Emily Kavanagh: Thanks so much for an informative session

01:18:37 Trena Wilkerson: Excellent session! Great connections using coding and focusing on mathematics! Thank you all for sharing.

01:18:44 Pip Arnold: wonderful thank you

01:18:48 Olga Kosheleva: Thank you very much!

01:18:52 Pam Crombar: Thank you so much!

01:18:53 Dominador Guillermo: @chonda this chat script is also available after this webinar so we can access the links?

01:18:54 Maria Dolores Estravez: @ Ashley Thank you for answering the question

01:19:12 Rosanne Marino: It's a 1, 2, 1... loop. :)

01:19:18 Lorie Huff: Thank you for the great information, resources, and support.

01:19:19 Janet Gidding: lol

01:19:22 Wanda Parker: Great information!

01:19:25 Arpi Lajinian: This was excellent - thank you!

01:19:25 Sandra Bleecker: Will the presentation slides also be available?

01:19:25 Jim Wysocki: Thanks for all of this!

01:19:26 Maria Dolores Estravez: Thank you very much for sharing all this information!

01:19:26 marissa heitman: thank you so much

01:19:32 Teresa Hopkins: Thank you so much!

01:19:35 Honey Sacro Swem: Thank you Patrick, Ashley, and Mike, for sharing your expertise and resources. This is truly helpful!

01:19:36 Janet Gidding: You 3 were articulate and informative! Thank you!

01:19:37 Chonda Long: @Dominador Tomorrow at www.nctm.org/100 the recording, handout, transcript of the chat, and slides will all be posted

01:19:39 Cherish Alberts: Thank you so much!!!

01:19:43 Grace Harris: Thank you so much. A lot of information.

01:19:46 Daniel Irving: Thank you for taking the time to share such incredible resources and information with us!

01:19:47 Mary France Imperial: thank you so much

01:19:50 Bridget Falcone: Thank you so much for all of this

information.

01:19:53 Cheryl Williams: Thank you this was terrific.
01:19:57 Stephenia Courtney: Thank you!
01:20:02 Lance Brauchla: Thanks....loved this!
01:20:04 Jennifer Gonzales: Thank you so much
01:20:07 Rafiq Zulkarnaen: Thank you so much to NCTM and all presenters.
01:20:07 Gloria Flores: Thank You :)
01:20:25 Jonathan Marcovitz: Thanks.
01:20:46 Faisal El Anzaoui: Thank you guys this was very interesting!
01:20:47 Janet Gidding: Thanks for answering that TI ?
01:21:10 Jim Wysocki: Worth mentioning that TI will be adding the ability to use Python to the TI-Inspire
01:21:12 Zuobin Tang: The Python 30 Day Challenge looks amazing! Thank you so much for sharing.
01:21:29 Patrick Honner: @dandersod Dan Anderson
01:21:44 Chris Harrow: And the relationship between angle turn and number of sides is a nice linear function for algebra
01:21:45 Dominador Guillermo: @mike Dan Anderson?
01:22:00 Dominador Guillermo: got it
01:22:27 Trena Wilkerson: TI has great coding as well with their TI Innovator-various robotics.
01:23:01 Janet Gidding: Always document your code!
01:23:23 Dominador Guillermo: Are students able to share their completed projects in google classroom?
01:23:28 marissa heitman: thank you
01:24:10 Ashley Goetz: In Google Classroom, I typically post a google form or a google doc where students can share their link to their projects
01:25:11 Justin Klinger: Many of my students did no do the confirming and I could not grade their project. It is super important!!!!
01:25:17 Melonie D Smith: Great presentations. Thank you!
01:25:25 marissa heitman: amazing. thank you for those.
01:25:29 Rogelio Lapulapu: Great presentation ! Thank you very much great presenters !
01:25:53 Jim Wysocki: Thank you!
01:25:56 Saul Gonzalez: Thank you for the awesome presentation! I'll definitely implement.
01:26:33 Anny Padilla: I want to learn more about coding
01:26:39 Katherine Prammer, PhD: Thanks for a great talk
01:26:58 Justin Klinger: This was a great presentation. Saying thanks is just not enough, but THANK YOU. I will be going to my department tomorrow and suggest starting our year with these!!!
01:27:01 Valentina Sorescu: Thank you!!!
01:27:01 Anny Padilla: And about integrate it to my math classes
01:27:07 Amy Naumovski: THANK YOU!
01:27:12 Denise Juern: Thank you!!
01:27:12 Yaara David: Thank you! Very useful
01:27:14 Amy Naumovski: That was amazing
01:27:19 Patrick Honner: Thanks everyone!
01:27:25 Bill Hudson: Thank you

01:27:27 Wendy Kraft: amazing tie into data science, pathways, authentic learning, etc.

01:27:33 Menchie Besa: Thank you.

01:27:34 Sharon Black-MacKinnon: Thank you so much! That was so awesome!!

01:27:35 Michelle Hall: Thank you!!

01:27:37 Megan Sgaggero: Thank you!!!

01:27:37 Arpi Lajinian: Thanks!!

01:27:38 Zuobin Tang: Thank you so much for the presentation

01:27:40 Anny Padilla: Thank you!

01:27:42 marissa heitman: see you there!!

01:27:49 Shonel Fraser: Thanks!

01:27:55 Wanda Parker: Thank you!

01:27:58 Chonda Long: <https://www.nctm.org/change/>

01:28:02 Mike Larson: Yes they can share with the URL after pressing the orange share button :)

01:28:02 Susan Danskin: Thanks

01:28:03 Maryanna Biedermann: Thank for actionable items to immediately work with students

01:28:06 Jet Yeung: Thank you for so much informative information. This is an awesome program for projects.

01:28:13 Wisnu Siwi Satiti: Thank for the great presenters! Such useful materials. Thank you everyone!

01:28:21 Olga Kosheleva: Great presentation.

01:28:27 marissa heitman: let you cat try to code!!

01:28:55 Chonda Long: Here is the MTLT eTOC for August - https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/MTLT_eTOC_Aug.pdf

01:29:01 Justin Klinger: Amazing!!!!

01:29:10 Sandra Bleecker: Thank you!

01:29:23 Kathy Rubendall: Thank you!

01:29:29 Ana Waisanen: Thank you!

01:29:32 India Puch: Thank you!!

01:29:33 Rafiq Zulkarnaen: thank you!

01:29:33 Justin Klinger: I want another hour!!

01:29:35 Tracy Stoldt: Thank you!

01:29:42 Donna Misciagna: Thank you. Lot's of great ideas.

01:30:13 dana dulzo: thank you so much, it's challenging but you made it seem approachable

01:30:19 marissa heitman: YES 1000

01:30:20 Ma. Lorena Aloquina: thank you

01:30:27 NITIN MALVIYA: Really nice combination of math and coding

01:30:31 LeAnna Deveaux-Miller: Great ideas...Thank You

01:30:36 NITIN MALVIYA: thank you