



MILLION GIRLS MOONSHOT

**NGCP & MGM Webinar Chat Transcript:
The M in STEM: Math in Everyday Life**
April 20, 2022

Sonia Thomas: Hello from Portland Oregon. I am a teacher trainer and consultant.

Rob YS librarian: Youth STEM librarian from Hillsboro, Oregon

Amy Vogt: 21st CCLC Project Director from Campbell Hill, IL

Laahiri Chalasani (she/hers): Welcome, everyone! Calling in from Northern Virginia :)

Annette Mason: Hello from Boise, Youth STEM coordinator at the library

Maggie McClain she/her: Hello From Nauticus in Norfolk, VA. I am the Youth and Family Programs Coordinator.

Dawna Sweatt: Hello from Indianapolis, IN. Program Director for YMCA

Fenqjen Luo: Hello! I am from Montana State University. I am a math teacher educator here.

Breann Padilla: Pueblo, Colorado Boys and Girls Club Career Coordinator Hello

Kiki Kirkpatrick: Hi Everyone! I run an afterschool STEAM program in Vancouver, BC

Garrie Moore: Hello from Greenville, NC

Latanya Robinson: Nevada

Mary Fuller: STEM Program Manager, Girl Scouts of Eastern Missouri in St. Louis

Bonnie Garbus: Hello from Fairfax, VA. I am the School Program Coordinator at the Children's Science Center Lab

MJ Abo Daher: Hello! I'm from the Children's Science Center in Northern Virginia!

Betsy Payne: Betsy Payne from the Philadelphia STEM Ecosystem

Shucha Zhang: Hello, Boundless Thinking and Experimenting INC from Boston.

Sabrina Gomez: Hi everyone Sabrina Gomez from the Million Girls Moonshot Initiative here. If you want to learn more about the Million Girls Moonshot and be a part of our movement check us out here: <https://stemnext.org/engineering-mindset-toolkit/>

Sonia Thomas: Grocery shopping

Amy Vogt: cooking

Maggie McClain she/her: We do recipe conversations

Annette Mason: money

Carol Scheer: Games

Garrie Moore: Gardening

Latanya Robinson: design challenges

Laahiri Chalasani (she/hers): Dr. Emille Davie Lawrence:

<https://www.emilledavielawrence.com/>

Laahiri Chalasani (she/hers): If you have questions or comments along the way, feel free to share them in the chat! We'll have many moments at the end to answer and reflect.

Quentin Riley: phase 10

Betsy Payne: Jacks

Sonia Thomas: I focus on early childhood so Chutes and ladders

Kyra Burns: monopoly

Breann Padilla: Sudoku

Mary Fuller: yahtzee

Kyra Burns: life

Fenqjen Luo: My daughters like to play SET online.

Kyra Burns: cards

Kiki Kirkpatrick (Science World): Connect 4

Garrie Moore: Chess

Betsy Payne: life

Rob YS librarian: trivia, board games, coding puzzles

Quentin Riley: Phase 10 is a bit like Uno

Annette Mason: rummikud

Breann Padilla: spoons

Shucha Zhang: bridge

Jerome Salada: Damath,

Imani Malaika-Mehta: Othello is like the Korean game Go

Rob YS librarian: Cat stacks, haha.

Betsy Payne: I love set!

Rebecca David: For younger students, this reminds me of the card game Blink!

Laahiri Chalasani (she/hers): I've never heard of Blink before but I just looked it up and looks like a lot of fun!

Breann Padilla: same number'

Rob YS librarian: 2/3 are our same or different

Betsy Payne: because 2 of the cards have 2

Rob YS librarian: 2/6/8

Mary Fuller: 2, 4, 9

Maggie McClain she/her: 1,5,8

Betsy Payne: 1,5,8

Kyra Burns: lol good morning. 2/4/9 shape

Sabrina Gomez: 9,8,6

Maggie McClain she/her: 2,3,8

Betsy Payne: 2,3,8

Breann Padilla: 1,4,7

Sabrina Gomez: nevermind not 9,8,6

Kiki Kirkpatrick (Science World): 1,5,8

Rob YS librarian: Haha, never claimed to be good at math. :)

Betsy Payne: 1,4,9

Kyra Burns: 1/3/6 fill

Sabrina Gomez:1,2,7

Sonia Thomas: But 1, 4, 9 has one shape?

Marguerite Ponce: 1,3,6

Sonia Thomas: One shape in the card 1, 4, 9

Kyra Burns: but i thought shape was a category

Jacquelyn Viale: must they have two variables the same?

Kyra Burns: 1/2/7

Kiki Kirkpatrick (Science World): 3,5,4

Sabrina Gomez: 9,6,5

Carol Scheer: 2,3,8

Kris Tyler: 2,3,8

Jacquelyn Viale: So why can't single items be a set?

Breann Padilla: 3,5,9

Rob YS librarian: that darn fill

Laahiri Chalasani (she/hers): Yes!

Maggie McClain she/her: yup!

Quentin Riley: 459

Quentin Riley: 429 **

Rob YS librarian: Our library had a family game night once that drew all the teens into SET. If you've run programming before, you can see what a win this was.

Imani Malaika-Mehta: I LOVE Fibonacci!

Imani Malaika-Mehta: I will have students investigate the Fibonacci sequence for Earth day!

Laahiri Chalasani (she/hers): Imani, sounds like you're doing what Dr. Emille is talking about!

Imani Malaika-Mehta: Absolutely! I take an interdisciplinary APPROACH TO STEM!

Imani Malaika-Mehta: Kids find it amazing that math in nature is so consistent.

Rob YS librarian: ^ So do I, kids.

Imani Malaika-Mehta: We will also look at why honeybees use hexagons.

Breann Padilla: thank you

Seisin Eyer: Thank you!

Mary Fuller: looking at math in nature is a great way to get kids both outside and thinking about how math is all around us, not just in a classroom

Rob YS librarian: Good idea Imani. I have a STEM storytime coming up about pollinators. A perfect time to look at that.

Garrie Moore: Excellent!!

Imani Malaika-Mehta: I also do math mapping to have students identify the math used in everyday life.

Imani Malaika-Mehta: I use pollinator habitat gardens the students plant as an outdoor classroom. You can use tree stumps for seats.

Laahiri Chalasani (she/hers): Love the idea of math mapping! Reflection is a great way to see math around us.

Rob YS librarian: Good suggestions Marisa. Always doing mixing, distribution, etc. Easy enough to ask the kids to solve the problems as we go.

Laahiri Chalasani (she/hers): Rob, it also makes the activity collaborative, lending space for youth voice

Imani Malaika-Mehta: I hid the 1 cup measuring cup in my kitchen. My daughter loves to cook, so she had to figure out how many $\frac{1}{3}$ cups she would need to make 6 cups of flour.

Rob YS librarian: ^this happens completely by accident in my house, but hopefully the result is constructive. :)

Imani Malaika-Mehta: Good for you, Rob. Be intentional!

Rob YS librarian: I haven't seen the TBSP in ages. Just going to say I meant it as part of a fractions lesson.

Imani Malaika-Mehta: Math in shopping! Figure out if the 20% off sale is truly a savings!

Imani Malaika-Mehta: LOL Rob

Seisin Eyer: oooo! I love that idea

Kyra Burns: we've been starting to get some kids wanting to do D&D here at club

Imani Malaika-Mehta: I use a lot of geometry in CAD & 3D printing.

Sonia Thomas: My daughter loves Dungeons and Dragons

Rob YS librarian: TTRPG

Caleb Dunaway: tabletop RPGs are great for understanding probability

Laahiri Chalasani (she/hers): TTRPG = Tabletop Role Playing Game

Imani Malaika-Mehta: Kudos to Rob for being aware of gender differences in teaching math.

Imani Malaika-Mehta: I use probability tables in science experiments.

Sonia Thomas: I remember my days at PAX Penny Arcade Expo Table Top and TT RPG.

Imani Malaika-Mehta: Game theory!

Imani Malaika-Mehta: Math in Shopping!

Sonia Thomas: Help them find the math every day. Matching socks, playing games

Kyra Burns: I think realizing that math and science is in everything we do. take what they are interested in and find the lessons you could teach

Imani Malaika-Mehta: Ask kids how much the item will be by calculating the percentages on the coupons that you have.

Rob YS librarian: A further question- have you lead any successful math-themed events/programs, and how do you promote them in an approachable way? Slipping in everyday math is a fantastic approach, but I would love to host something math-specific and actually have people show up.

Sonia Thomas: Reminding parents that math is more than formulas

Seisin Eyer: Yes Sonia! Remember that everyday activities with sorting, counting, matching are all very valuable math concepts (dishes away, feed the dog two scoops)

Imani Malaika-Mehta: Math in Citizen Science!

Rob YS librarian: Taking away the "complex, boring, I'm not good at it" math stigma

Betsy Payne: sports are full of math

Imani Malaika-Mehta: Math in Citizen Science is a great entry point to data science

Rebeccah David: Oh good point Betsy!

Betsy Payne: sports have statistics, scoring, trajectories

Seisin Eyer: Make a playlist for an hour long car ride!

Rob YS librarian: ^ I like that idea Seisin. Fresh

Imani Malaika-Mehta: Trajectories in basketball - Steph Curry has a video on this

Mary Fuller: Pi Day is a great one!

Rob YS librarian: ^ yes! Thanks Mary

Mary Fuller: Because you get to eat pie :)

Susan Seidenberg: I missed the meeting. will this be archived?

Kyra Burns: kitchen math is their favorite around here.

Rob YS librarian: There's three. Pi day, Pi approximation day, and the Pi day in November...

Imani Malaika-Mehta: I use drones to show the effects of drag on acceleration for parent teacher nights

Imani Malaika-Mehta: Einstein's birthday is Pi Day

Laahiri Chalasani (she/hers): November is Thanksgiving...

Rob YS librarian: November 10: The 314th day of the year

Laahiri Chalasani (she/hers): Ah! I made an assumption. Good to know about the 314th day

Sonia Thomas: We collected leaves and created a live giant chart to see which type had more. Then we converted it to a graph using colored paper squares on a grid.

Kiki Kirkpatrick (Science World): We had a "carnival" themed teen day which didn't necessarily have "math" in the title and promotion but it incorporated lots of math and statistics

Imani Malaika-Mehta: March 14 = Einstein

Rob YS librarian: Approximation day is 7/22, because the value of pi is 7/22.

Rob YS librarian: sorry 22/7

Seisin Eyer: I love holiday math!!!

Rob YS librarian: A anti-scum math event would be fun. Carnival things. Statistics, and multiplying percentages...

Kyra Burns: we've run a program called Crazy 8's that the kids actually love and it is completely math centered

Seisin Eyer: Could you talk about that Kyra?

Imani Malaika-Mehta: No, citizen science is students collecting data for research projects.

Laahiri Chalasani (she/hers): In my previous role at a science museum, we hosted an election day camp where stats and polling were the focus on! Students loved 'participating' in the election

Rob YS librarian: ^ it also offers a lot of resources for programmers. Definitely worth your time.

Imani Malaika-Mehta: Citizens contribute to actual research

MJ Abo Daher: How do I encourage children to find math moments on their own. So they can carry the math moments outside of our center

Imani Malaika-Mehta: @MJ - Use math mapping

Mary Fuller: <https://crazy8sclub.org/>

Rob YS librarian: Thank you, very helpful!

Kyra Burns: Thank you Mary, yes.

Sonia Thomas: Great ideas!

MJ Abo Daher: Kind of like a scavenger hunt! Great idea Imani.

Kyra Burns: The crazy 8's is nice in the fact that all the curriculum is done for you so you don't have to figure it out on your own if you feel like you struggle with the math aspects

Kyra Burns: Are there links for those upcoming trainings?

Rob YS librarian: Thank you very much! This was a great group to chat with.

Marisa Garcia: you can find all our events here: <https://ngcproject.org/events-announcements>

Brenda Britsch: Survey:
https://stemnextopportunityfund.formstack.com/forms/mathwebinarfeedback_20220420

Quentin Riley: thank you!

Maggie McClain she/her: Thank you!

Seisin Eyer: Thank you much!! Cheers!

Rebeccah David: Thank you all!

Mary Fuller: Thanks!

Irma Saldana: Thank you.