

MILLION GIRLS MOONSHOT

The Million Girls Moonshot: March Quality Trainings and Transformative Practices



Million Girls Moonshot

Engaging one million more girls in STEM learning opportunities



The Moonshot will be active in out-of-school programs in all 50 states, leveraging the Mott-funded 50 State Afterschool Network, which has access to more than 10 million youth and 100,000 afterschool programs across the country. Over the course of the new year NJSACC's STEM Specialist Chris Jorn will bring you The Million Girl Moonshot monthly newsletter. Each month Chris will be rounding up accessible training opportunities, role models, and most importantly STEM activities for New Jersey's after school community.

March marks the beginning of Women's History month. What was originally known as "Women's History Week" in 1982, has deservedly transformed over the years into an entire month aimed at recognizing and celebrating the contributions of women in our society, throughout history.



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This month, the Million Girls Moonshot will pay tribute to the brilliant minds and contributions of female STEM leaders who have impacted not only their field, but the world around them in meaningful ways. In celebrating the lives of these women and Women's History Month, we must realize that in order for our world to solve some of our biggest challenges — public health, climate change, and cybersecurity — we must remove barriers for girls and women in all STEM disciplines so they can truly thrive!

Incorporating Role Models

“Women Providing Healing, Promoting Hope”



IF/THEN Ambassador and microbiologist, Dr. Harshini Mukundan, and can be used in marketing, presentations, social media, and for conferences presentations.

- [Ambassador Profile](#) of Dr. Harshini Mukundan
- [Short Profile](#) of Dr. Harshini Mukundan
- [Mission Unstoppable](#) Episode of Dr. Harshini Mukundan

Meet Environmental Scientist, Dr. Luz Claudio

- [Short Profile](#) of Dr. Luz Claudio
- [Social Media Cutdown](#) of Dr. Luz Claudio
- [Mission Unstoppable Episode](#) of Dr. Luz Claudio



Don't know where to start in the IF/THEN Collection? Here are some tools to help you!

- [IF/THEN Collection Video Tour](#)
- [Collection Scavenger Hunt](#)
- [User Guide](#)



MILLION GIRLS MOONSHOT

Are you leading engineering activities in summer of 2022?



Are You Leading Engineering Activities in Summer of 2022?

Million Girls Moonshot is looking to pilot an assessment with camps or programs engaging youth in engineering activities this summer.

[Apply Today!](#)

Eligible programs will receive \$3,000 for program expenses and facilitator stipend

Apply by April 15, 2022

MILLION GIRLS MOONSHOT

If you expect to be conducting an engineering camp or leading engineering activities for middle school youth this summer, you may be able to help with the Million Girls Moonshot (MGM) evaluation. **In exchange for your assistance, we will provide \$2,000 for program expenses and a \$1,000 stipend for the facilitator.**

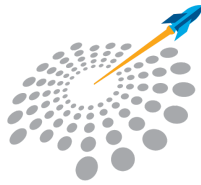
Learn more about the opportunity [HERE](#). Apply [HERE](#) by April 15, 2022.

FEATURED WEBINARS

Engineering Mindsets - Math

- **Webinar: The M in STEM: Math in Everyday Life**
Wednesday, April 20, 2022 11:00AM Pacific / 12:00PM Mountain / 1:00PM Central / 2:00PM Eastern
This webinar will focus on ways math is prevalent and relevant in everyday life, including in afterschool spaces. We will learn about ways to recognize and embrace authentic math moments and activities to help engage afterschool youth in math.
[REGISTER HERE](#)





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- **Webinar: The M in STEM: Making Math Meaningful**

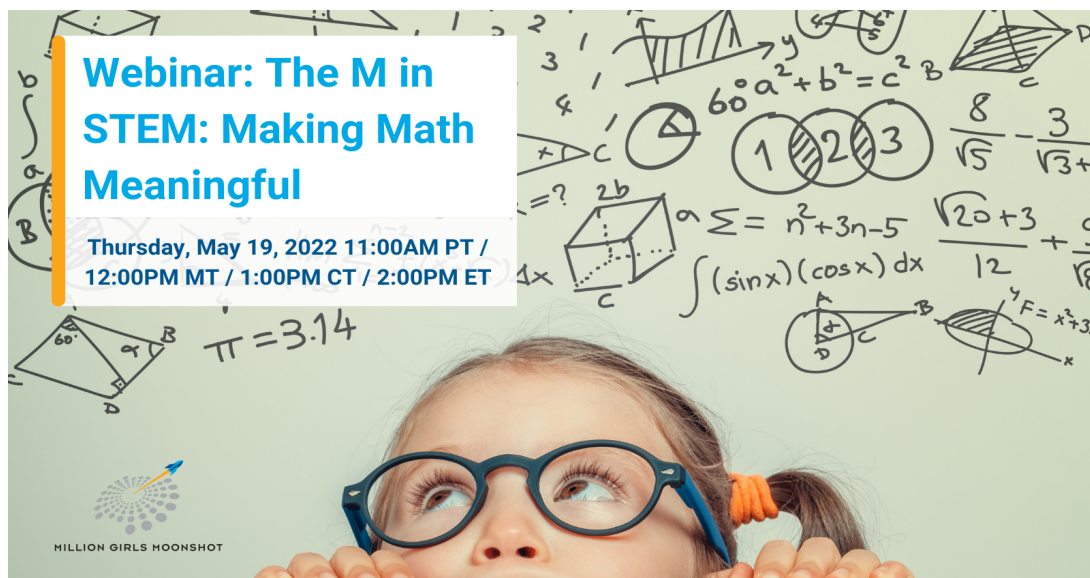
Thursday, May 19, 2022 11:00AM Pacific / 12:00PM Mountain / 1:00PM Central / 2:00PM Eastern

This webinar will focus on ways math is prevalent and relevant in everyday life, including in afterschool spaces. We will learn about ways to recognize and embrace authentic math moments and activities to help engage afterschool youth in math.

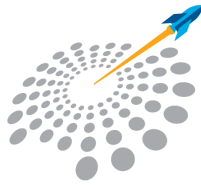
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Role Models And Mentors as an Equity Strategy

- **Role Models Matters Training for STEM Volunteers**

Ready to train volunteers and role models in your Network, school, or afterschool program? [COMPLETE THIS REGISTRATION FORM](#) to gain access to the Role Models Matter training developed by Techbridge Girls.



techbridge girls™  20
Celebrating 20 Years

Family Engagement as an Equity Strategy

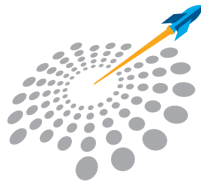
- **Parent Workshop: The Engineering Design Process at Home with Technovation**

April 1, 2022: 6:00AM Pacific / 7:00AM Mountain / 8:00am Central / 9:00am Eastern

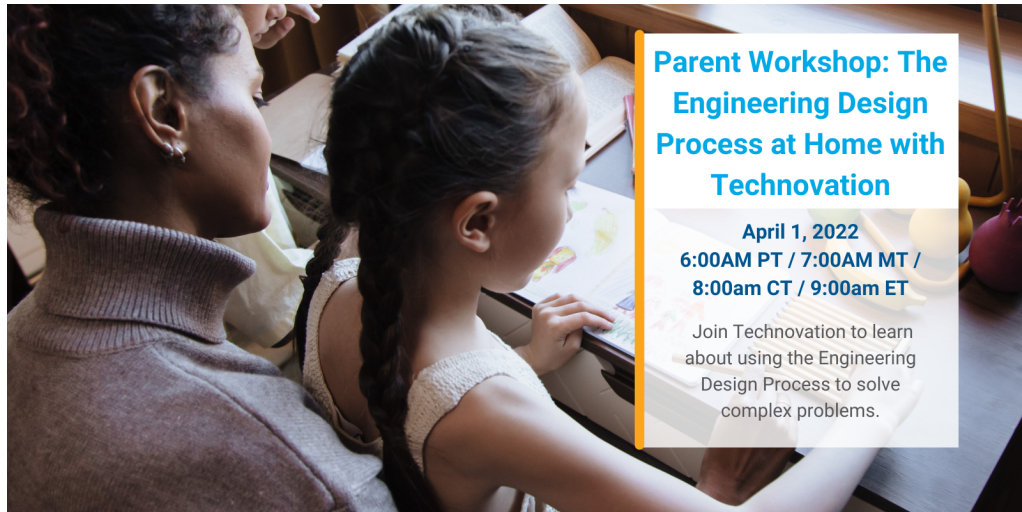
Life is messy and your child doesn't always deal with clear-cut problems. Join Technovation to learn about the Engineering Design Process and how this framework can help anybody approach all sorts of complex problems both within STEM (Science, Technology, Engineering, and Math) and out. In this session we will focus on the different steps of the Engineering Design Process, including iteration and developing resistance to failure in STEM.

[REGISTER HERE](#)





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TECHNOVATION



QUALITY TRAININGS

ACRES is a nationally acclaimed coaching program that builds knowledge and skills so after school educators, librarians and anyone who works with youth in out-of-school settings can confidently facilitate Science, Technology, Engineering, and Math (STEM) experiences for youth. More information found [here](#).

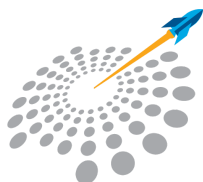
April Cohort: Ready. Set. STEM! & Asking Purposeful Questions

Are you ready to bring meaningful STEM learning into your program? This module offers educators who are new to facilitating STEM the opportunity to build supportive relationships with other educators while exploring the principles of STEM learning. This module combines an introduction to STEM facilitation with the skill of Asking Purposeful Questions. *The expectation is that you will be live at all three sessions and an active member of this coaching cohort. Stipends are offered to participants who complete feedback surveys before and after a module.

Cohort dates and times are: Wednesdays April 27th, May 11 and 25th 10:00 - 11:30am EST

[REGISTER HERE](#)





MILLION GIRLS MOONSHOT

April Cohort: Elevating Youth Voice and Choice

How often do youth in your program get to choose what they're investigating or designing, the materials they might use and/or how they engage with the work? In this module, participants try out strategies for elevating youth voice and choice and apply the ideas as they redesign a STEM activity to incorporate a greater variety of youth input.*This ACRES skill and cohort is designed for participants who have ideally already done either Asking Purposeful Questions of Ready Set STEM.

Cohort dates and times are: Tuesday April 26th, May 10 and 14th 9:00 - 10:30am EST

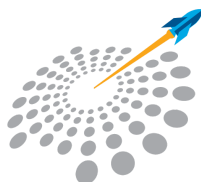
[REGISTER HERE](#)

ADDITIONAL PROFESSIONAL DEVELOPMENT

- **Webinar March 24, 2022:** [Join the Discussion to Celebrate Women in STEM](#) to hear about the challenges and successes of women in STEM. **[REGISTER HERE](#)**
- **Recording:** [The IF/THEN® Collection in Action... at Museums!](#) - Join representatives from ASTC member museums as they showcase resources and activities from the IF/THEN® Collection that enhance their STEM programming. Association of Science and Technology Centers (ASTC) member museums partnered with friends of the National Girls Collaborative Project to implement resources from the IF/THEN® Collection to enhance their programming and STEM activities. Join us as we hear from the various and successful program leads as they showcase the resources used and how their program youth were impacted by the diverse representation from the STEM fields.

Equity and Inclusion

- **Toolkit:** [Women's History Month | Managing American Spaces \(state.gov\) Resource Toolkit](#) for Women's History Month contains lesson plans, discussion guides, posters, social media, and movies about the struggle for women's equality in the United States, as well as, women's rights globally.
- **Toolkit:** [Math Equity Toolkit](#) - This tool kit layers professional development into "Strides" that educators can take along a path to equitable education. Topics include Dismantling Racism in Mathematics Instruction and Creating Conditions to Thrive.



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Engineering Mindsets - Math

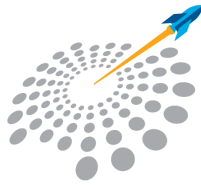
- **Professional Development Guide:** [The National Center for Quality Afterschool - Math in Afterschool](#) - The National Partnership for Quality Afterschool Learning developed professional development guides for four content areas of the toolkit: literacy, math, technology, and the arts.
- **Activity Toolkit:** [Growing Math](#) - Provides ready-to-roll-out lessons and games combining math, agricultural science and Indigenous history and culture that can be easily used in classrooms, via hybrid models or through distance learning. The project will provide resources, curriculum, training and tech support to teachers and students in Grades 3-8 at schools in six states: Arizona, Minnesota, New Mexico, North Dakota, Oregon and South Dakota. For schools in the region, all participation and resources are supported through USDA funds.

Families

- **Website:** [Math Communities](#) – Students, parents, and educators coming together to play with math! Math Communities creates a virtual community that provides free access to joyful collaborative activities designed by professional mathematicians and math educators for K-12 students, educators, and families. There are lots of ways to communicate with other folks interested in math.

STEM Transitions, Handoffs, and Coordination

- **Toolkit:** [Brokering Youth Pathways: A Toolkit for Connecting Youth to Future Opportunity](#) from the Hive Research Network - This toolkit shares ways in which various out-of-school educators and professionals have approached the challenge of brokering. We provide a framework, practice briefs and reports that focus on a particular issue or challenge and provide concrete examples, as well as illustrate how our partners worked through designing new brokering routines in partnership with our research team.

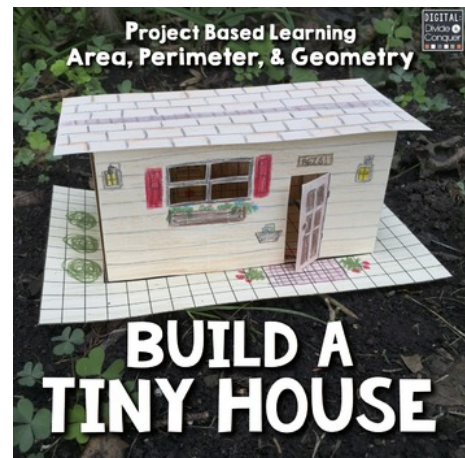


MILLION GIRLS MOONSHOT

March's STEM Spotlight

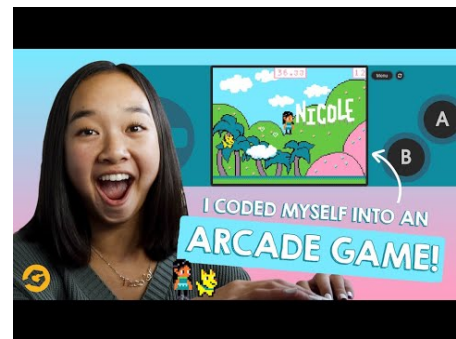
[Build a Tiny Dream Home](#)

Build A Tiny House is a project based learning (PBL) activity that'll put the designing into the hands of the students. Students will dive deep to show they understand how (and why) math concepts such as area, perimeter, and geometry are used in building a home. This project integrates multiple elements such as problem solving, collaboration, design, and planning that connect concepts across multiple platforms.



[Code Along](#)

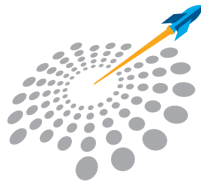
A virtual coding academy where diverse, young female influencers teach girls how to code the things they love in a casual, vlog-style “how to” format. Modules include project-based activities like “How to Code an About Me Website” or “How to Code a Minecraft Game.”



[Rebel Girls Activities](#)

Rebel Girls is a global empowerment brand dedicated to raising the most inspired and confident generation of girls through content, experiences, products, and community. We believe in empowering girls to dream big, that amplifying stories of real-life, extraordinary women can pave the way for a more equal world, and that when she sees it, she can be it.





MILLION GIRLS MOONSHOT

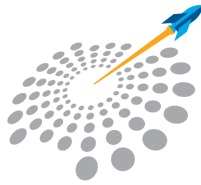
Women's History Month

Celebrate Women's History Month and International Women's Day with this collection from Kahoot! Academy's partners and Verified creators. Learn about women's contributions and achievements, and show appreciation for the important women in your life.



ACTIVITIES FOR PROGRAMS

- **Activity Toolkit:** [STEM Educators Academy Activity Toolkit from ExpandedED Schools](#) — This Activity Toolkit offers hybrid learning engineering design challenges, STEM facilitation skill builder videos, and engineering design activities categorized by content areas.
- **Student Activities:** [30 Active Math and Activities for Kids Who Love to Move](#) - When kids think of math, they usually picture worksheets and flashcards. But math doesn't have to be dull! These active math games get kids up and moving, using their whole bodies to learn facts and skills. Lots of these ideas can be adapted to suit a variety of math concepts, so choose a few to try out with your math students soon.
- **Student Activities:** [21 Cool Math Games and Activities for Kids in Elementary School](#) - The following list of cool math games and activities for kids includes math video games, math board games, math puzzles and brain teasers, and other fun math game and activity ideas. These cool math games and activities are perfect for lesson plans, at home learning, summer session, and more. Which one will be your favorite?
- **Student Activity:** [Smart Skies](#) - In these small-group NASA activities, learners assume the roles of pilots, air traffic controllers, and NASA scientists to solve five Air Traffic Control (ATC) problems. Age range 8-18 Welcome to Smart Skies! Fly By Math
- **Student Activity:** [Pi Day Fun!](#) - March 14th is Pi Day (Pi=3.14)! Celebrate with one of these activities from grades 1st - 12th.



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MIZZEN BY MOTT MOONSHOT CONNECTION

The [Mizzen By Mott app](#) delivers inspiring and engaging activities that spark learning in young people. Supported by the Mott Foundation, Mizzen is available at no cost to afterschool professionals! Encourage partners to download the Mizzen By Mott app to access STEM activities at your finger-touch! You'll find it in Mizzen [here](#).



Featured Activities & Playlists

- **Playlist: Helping the Planet for 3rd - 5th Grade at Home** - This playlist allows younger students to go outside and learn about ways to help the environment.
- **Playlist: STEAM Activities for Middle School at Home** - This playlist gives middle school aged students fun engineering and design activities that can be done at home or in small groups.
- **Module: Make it Move Invention Camp** - The Make it Move Invention Camp curriculum explores transportation vehicles, and mechanical things that move! These activities explore engineering and invention with hands-on, fun activities that end with the creation of an invention that improves the quality of life.