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Your October STEAM Girls' Collaborative Newsletter!

1 message

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New York STEAM Girls' Collaborative Newsletter

October 2023



Table of Contents

[Celebrate 2023 Lights On Afterschool](#)
[First Woman Camp Guide and Set of Hands on Activities](#)
[Surprisingly STEM Video Series](#)
[NASA Activities](#)
[Start your GWC Club today!](#)
[STEM Cast Podcasting Contest](#)
[2023 and 2024 Solar Eclipse](#)
[Modeling the Future Challenge](#)
[Chats with Change Makers](#)
[The Center of Excellence](#)
[STEAM Events](#)
[Follow us on social media!](#)
[Submit your news, events, trainings, and resources](#)

Celebrate 2023 Lights On Afterschool

Uplift youth voices during Lights On Afterschool

We are just two weeks away from Lights On Afterschool. Join us and get your community involved in the only nationwide event celebrating afterschool programs and their important role in the lives of youth, families, and communities.

Lights On draws attention to the many ways afterschool programs support youth by offering them opportunities to learn new things and discover new skills. Lights On highlights the importance of afterschool and the need for quality afterschool programs for all youth.

This annual celebration is the perfect time to pass the microphone to the young people in your community and let them share their thoughts and experiences with a larger audience. From the planning to the execution, youth can be involved in all aspects of your *Lights On* event. Give youth the opportunity to share their experience and story by holding a rally with youth speakers or by holding an assembly hosted by youth.

There's still time to plan a fun and effective celebration! Visit the [searchable events database](#) sorted by theme, planning time, and difficulty for more examples on how to uplift

youth voice.

We also encourage you to visit the Afterschool Alliance's Lights On Afterschool [webpage](#) to begin planning your own event or [watch this 10-minute video](#) to learn more about Lights On Afterschool. [Register](#) your Lights On celebration this Friday, October 13 to receive 10 free posters.



First Woman Camp Guide and Set of Hands on Activities

As NASA prepares to put the first woman on the Moon in the next few years through the Artemis Missions, join in an opportunity to imagine the possibilities of future lunar exploration with your upper elementary and middle school students. **This set of hands-on activities accompanies NASA's "First Woman" graphic novel series, which tells the story of Callie Rodriguez, the first woman to explore the Moon.** While Callie is a fictional character, the first female astronaut and person of color will soon set foot on the Moon. Intended for uses in afterschool settings, this First Woman Camp Experience Guide will bring the excitement of NASA's science and technology. Read the fictional story of Callie, the first woman and person of color on the Moon. Download the interactive graphic novel and mobile apps.



1. [Access the Guide and Graphic Novel](#)
2. Register for the Live Professional Development Webinar:
 - [October 17 5:00pm](#)
3. Use the Materials with Your Students

4. Register for a Live Q&A with Scientists and Engineers working on the Artemis Mission
- [November 9 at 3:30pm ET](#)
 - [December 7 at 6pm ET](#)
 - [Jan 24 at 4pm ET](#)

Surprisingly STEM Video Series



Surprisingly STEM is a video series that highlights exciting and unexpected careers at NASA. This series is designed to inform students about the broad range of career opportunities at NASA – outside of the typical associations of rocket scientists and astronauts – and to break down perceived barriers for working at the agency.

- Monthly Release of new pre recorded 5 minute career episode
- Associated STEAM Activities
- Monthly Live Session with NASA expert to answer Student Questions

[CHECK OUT THE FLIER HERE](#)

NASA Activities

STEM Activities



Looking for fun and engaging activities for your program! Look no further, check out these NASA inspired activities ready to be implemented tomorrow!

- **Build a Pizza Box Solar Oven:** Use easily found materials to create an oven where students can cook s'mores. The activity answers the question "What has engineering got to do with me?" in a way that is fun.
- **Hands-On Math: Fraction Math Trees:** This fun hands-on, kinesthetic and visual approach to learning about fractions produces "math art".
- **Welcome to Space Math @ NASA:** A collection of math videos, books, and activities that are sorted by grade level, science topic, NASA missions, and engineering topics. All activities are based on NASA Mission and projects.
- **STEM Lessons From Space: Mathematics:** A collection of math and engineering activities, videos, and resources with a focus on the International Space Station.
- **The Institute of Electrical and Electronics Engineers:** A collection of fun and easy activities for ages 4-18 that cover a broad spectrum of activities—everything from designing devices to address climate change to coding.
- **STEM Activities for Families:** Family engagement is a key factor in developing a positive STEM identity and success in STEM. These easy to implement, fun hands-on activities can be shared with families. The activities focus on engineering, technology, and math skills and content.

Girls Who Code

Start your GWC Club today!

Girls Who Code is an international nonprofit working to close the gender gap in technology. Their free and flexible Club programs empower teachers, librarians, and community volunteers to spark computer science interest among 3rd-12th grade students of all genders.

TOP BENEFITS OF GIRLS WHO CODE CLUBS

Save Time



- 120+ hours of coding tutorials.
- Community-building sisterhood activities.
- GWC Tech Spotlights highlighting diverse innovators in tech.
- Comprehensive meeting guides to run seamlessly.

Deepen Engagement



- \$500 Clubs Fund and swag benefits for eligible Clubs.
- Toolkits and templates for recruiting members.
- Virtual events like GWC Talks and CS Ed Week workshops inspire a new vision of who can be a programmer.

Outcomes with Impact



- Girls Who Code is on track to achieve gender parity in new, entry-level tech jobs by 2030.
- Our alumni are earning computer science and related degrees at 7x the national average.
- Clubs help students hone the skills they need to pursue careers of the future.

Ready to start a club? [sign up here!](#)

Indicate you're part of **New York State Network for Youth Success** on the Clubs application, and you'll unlock additional support, access to special events, and exclusive opportunities for swag. No coding experience required!

STEM Cast

Podcasting Contest



The STEM-Cast Contest is now open! Share your stories and insights about the positive impacts of STEM education in a 2-3 minute podcast. When registering, choose one of the following 3 categories:

- **Learners:** *How has STEM education helped your learners develop critical thinking, problem-solving and creative skills? Has it inspired them to pursue STEM careers?*
- **Instruction:** *How has STEM education influenced your teaching style to make it more engaging and relevant for students?*
- **Learning Environment:** *How has STEM education influenced your approach to structuring a learning environment to be more supportive and inclusive?*

You will also find a compiled list of resources to help you create a great podcast. These invaluable podcasting tools will empower you to bring your vision to life and share your inspiring stories of STEM education's positive influence.

How to enter the STEM-Cast Contest:

- **Register** for the contest (10/5-19)
- **Submit** your 2-3 minute podcast (10/5-19)
- **Get votes!** One winner from each category will be chosen by public vote. (10/12-26)

3 winners, will receive:

- PCS Edventures' *Discover Podcasting* curriculum
- A \$100 Visa gift card
- Feature on our website and social media

[Click here](#) to register for the contest.

2023 and 2024 Solar Eclipse

Solar Eclipse Safety

Are you ready for the 2023 and 2024 Solar Eclipses that will be visible across the US on October 14, 2023 and April 8, 2024? Connect with NASA to engage students and families:

- Find local viewing events using this listing or creating your own opportunity.
- Use NASA Resources, Videos, Lessons and Materials with students.
- Ensure Safe viewing

Everyone MUST wear solar eclipse glasses or use an alternate viewing method to look at any eclipse. Read more about eye safety during an annular eclipse on our web page and on this safety flier.

Modeling the Future Challenge

Hofstra University

The Modeling the Future Challenge is a unique opportunity for your students to apply math in practical and creative ways, predict the future, and compete for \$55,000 in scholarships – for free! Learn more about the MTFC Hofstra University's actuarial science program and apply now: <https://www.mtfchallenge.org/news/on-campus/>



A Program of The Actuarial Foundation

Modeling the Future Challenge

A real-world math modeling competition for high school students!



\$55,000 in college scholarships



\$5,000 in educator awards



Training grants for educators



Mentorship from actuaries for all semi-finalists

The Modeling the Future Challenge blends math modeling with data analysis and the actuarial process, allowing students to make predictions about the world around them and connect what they're doing in the classroom to real-world problems and professions.

Registration is free!

www.mtfchallenge.org

Chats with Change Makers

DiscoverE



DISCOVER
CHATS WITH
CHANGE MAKERS

KAVYA

Introducing elementary & middle school learners to STEM careers & professionals.

Calling all elementary and middle school students!

Tune into the DiscoverE monthly series “Chats with Change Makers,” hosted by high school senior Kavya, to meet STEM professionals who are working hard to change the world.

Teachers and parents are invited to tune-in along with their students to meet an engineer and ask questions.

Join on Thursdays for new LIVE monthly chats!

- Nov 2
- Dec 7
- Jan 25
- Feb 22
- Mar 21
- Apr 25
- May 23

The Center of Excellence

Digital Harbor Foundation



Digital Harbor Foundation is offering free digital online trainings focusing on STEM. At the Digital Harbor Foundation they are working to unlock opportunities and access by grounding their work in community and heart. Check out what free online sessions are being offered this Fall below.

Live Online with the Center of Excellence

Game-based Learning in the Classroom

October 12, 2023

4-5 pm

Level up your STEM lessons with educational games that will entertain and inspire while your students solve problems!

Exploring Math Through Code

November 9, 2023

4-5 pm

Learn about the coding language, Python, and use it to teach math and engage students in computational thinking.

Live Online with the Center of Excellence and Lemelson MIT

Entrepreneurship

October 19, 2023

7-8 pm

Bring entrepreneurship into the classroom and help your students build 21st century skills

Electronic Textiles

November 16, 2023

7-8 pm

Explore e-textiles as a tool for invention, community, and perspective taking.

More STEAM Events

Oct. 21: Acres Training: Register for the NY Cohorts

NY Cohorts

Are you ready to bring meaningful STEM learning into your program? The ACRES 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.

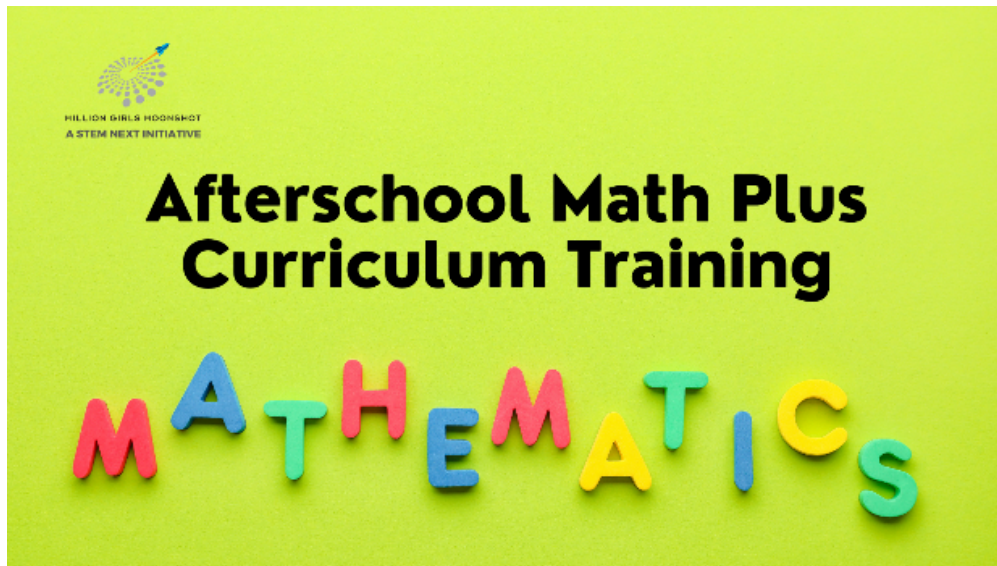
This series (valued at \$250) is offered at **no cost** to participants, for a limited time (Fall 2023 only) thanks to funding from the National Science Foundation grant #2115229 and #1713134.

Here's how to register:

1. First, [enroll in ACRES](#).
2. Once you are logged in, [sign up for this opportunity](#) using one of the following codes:
 - **NY341PQ**: Coach Roberto, meets Saturdays 10 AM-Noon on October 21, 28, and November 4, 2023*
 - **NY 30-39** (Coach Kaycia S.), meets Wednesdays 4:30 to 6:30 PM on October 28th, November 1st and 8th

*The expectation is that you will attend all three sessions and be an active member of this coaching cohort.

Not sure if this is the right opportunity for you? Check out this testimonial about ACRES training: <https://youtu.be/ZUp7DVOuhEY>



Click below to register for one or more of the webinars and learn how to use Afterschool Math Plus activities in your afterschool time program.

October 17th | MusicMath: Composing Music (with Math!)

Experiment with repeating patterns and create new arrangements using similar sounds in different sequences.

November 14th | MusicMath: Discovering Music Fractions

Identify and represent parts of fractions using music and explore combinations and permutations, or ways of creating variety while still using the same elements.

December 12th | MusicMath: Orchestration

Use fractions to create musical compositions, then perform the compositions using found instruments (pans, boxes, pencils, whistles). Create new combinations and permutations for the music fractions.

Note: Each webinar will include strategies to support a positive Math Identity (e.g., role models, career connections, family connections, literacy connections).

Register for each individual training session [here](#).

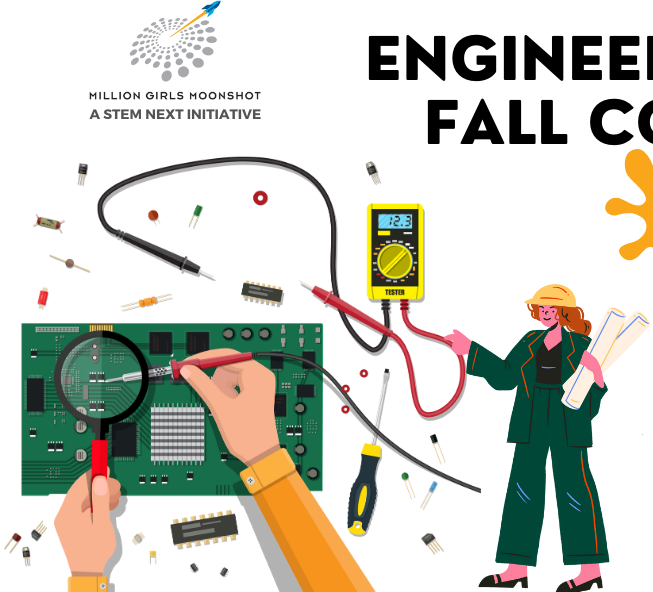
View previous recordings below:

[April](#)

[May](#)

[June](#)


Oct. 12, 26: [Click2Engineering: Engineering Mindset Fall Community of Practice](#) (2:30- 3:30 PM)



**ENGINEERING MINDSET
FALL COMMUNITY OF
PRACTICE**

**Thursdays - October 12, and
October 26 at 2:30 - 3:30 EST /
11:30 AM - 12:30PM PST**

Introducing out-of-school time educators
to the basics of engineering and leading
engineering activities with youth

 **CLICK 2
ENGINEERING**

The Click2Engineering community of practice (CoP) introduces out-of-school time educators to the basics of engineering and leading engineering activities with youth. The CoP is organized around the 10 Practices for an Engineering Mindset, and includes hands-on engineering activities, developing engineering experiences for youth, and learning skills to facilitate engineering practices. The CoP is 4 meetings over 6 weeks.

[REGISTER HERE](#)

Oct. 17: Scientific Adventures for Girls Math Curriculum Training (12:00-1:00PM)



**HILLION GIRLS MOONSHOT
A STEM NEXT INITIATIVE**

**HARNESSING
THE MAGIC
OF MATH**

Join Scientific Adventures for Girls for a dynamic three-part virtual training series designed to make math magical through games, kid-friendly data analysis, and nature exploration!

**October 3, 10, & 17th
12-1PM EST / 9-10AM PST**

Harnessing the Magic of Math

Join this dynamic three-part virtual training series designed to breathe life into math through games, through meaningful, kid-friendly data analysis, and nature exploration. Sessions focus on strategies that accommodate multiple grade levels and ability levels, helping you

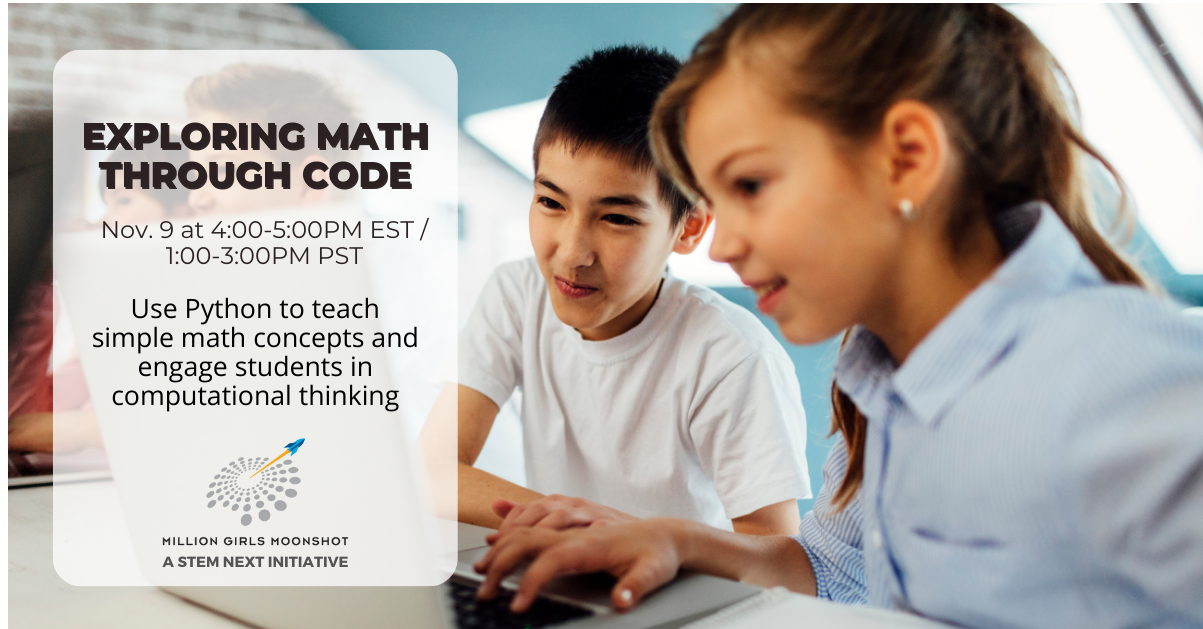
meet each student where they are. Prepare to turn your after-school program into a vibrant and engaging mathematical journey.

- **Oct. 17: Nature's Numbers: Exploring Shapes & Patterns**

In our final session, explore the geometric patterns and three-dimensional shapes that exist in the natural world, demonstrating how these can be used to enrich math learning. This session will equip you with strategies to engage all students, from the youngest to the oldest, and from beginner to advanced levels.

REGISTER FOR EACH INDIVIDUAL SESSION [HERE](#)

Nov. 9: Exploring Math through Code (4:00-5:00 PM)



In this workshop, participants will be introduced to the Python programming language and explore how to use Python to teach simple math concepts and engage students in computational thinking.

[Click here](#) to register.

Want even MORE news and updates?

Follow us on social media!

Keep up with news, views, and events through our social media. The STEAM Girls' Collaborative Leadership Team contributes to our feeds, giving you even more content about STEAM learning and equity.

Like us on [Facebook](#), search for @NYGCP.

Follow us on [Twitter](#), @NYSTEAM4girls

Interested in other work with youth? Stay tuned to the Network for Youth Success' channels!

Like us on [Facebook](#), search for @NetworkforYouthSuccess

Follow us on [Twitter](#), @NYSYouthSuccess

Contribute to our next newsletter...

Submit your news, events, trainings, and resources

Do you have STEAM related events, workshops, conferences, resources, or celebrations you would like to share with the NY STEAM Girls' Collaborative network? We would like to help you share! Each month, we send out an e-newsletter, and we need your content and contributions to make it a truly collaborative effort!

Our reach includes formal and informal educators, as well as others who are interested in girls' access to opportunities.

There are two types of content we can send out:

- **Short** - these blurbs are no more than **80 words** and are great for event or resource sharing.
- **Long** - these are no more than **130 words** and can have more description or detail. These are the featured articles in each newsletter.

Some things to keep in mind:

- **Include web links.** Link to more information, resources, registration, etc. The newsletter promotes and highlights, but the full story should be elsewhere.
- **Include an image.** Small, square image files, such as logos, help draw attention and improve the overall look of the newsletter.
- **Edit for clarity.** Please read your submission before sending it to make sure it makes sense to someone who doesn't know you, your organization, or your event.

Any material submitted may also be promoted via the NY STEAM GC Twitter feed, Facebook page, or LinkedIn page, increasing the range of promotion!

Please send your November submissions to NYSTEAM4girls@gmail.com by 1 PM on **Friday, October 27th**. We will try our best to include all inputs received! Email us at the same address if you have questions.



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