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Your June STEAM Girls' Collaborative Newsletter!

1 message

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New York STEAM Girls' Collaborative Newsletter June 2024



Table of Contents

- [Spotlight: Inventors Month](#)
- [Role Models, Mentors and Families](#)
- [NYSNYS STEM Events](#)
- [Activities for June 2024](#)
- [MGM Events](#)
- [New IF/THEN Champions Network](#)
- [More Events and Resources](#)
- [Follow us on social media!](#)
- [Submit your news, events, trainings, and resources](#)

Spotlight: Inventors Month



It's #InventorsMonth, a time to celebrate creativity, innovation, and the remarkable achievements of inventors past and present! Did you know that women have played a significant role in shaping the world through their inventions? Take Mary Anderson, who invented the windshield wiper, or Dr. Patricia Bath, who developed a groundbreaking device for cataract treatment. These visionary women, among many others, have left an indelible mark on history with their ingenuity and perseverance. Let's honor their contributions and continue championing diversity and inclusion in the world of invention! #InventorsMonth #WomenInInnovation #STEMdiversity

Role Models, Mentors and Families

Role models, mentors, and family engagement in a young person's STEM education leads to increased interest, greater self-confidence, and ultimately a stronger STEM identity. Developing a science-related identity increases the likelihood that students will work toward developing science literacy, or even pursue a career in a science or STEM-related field.

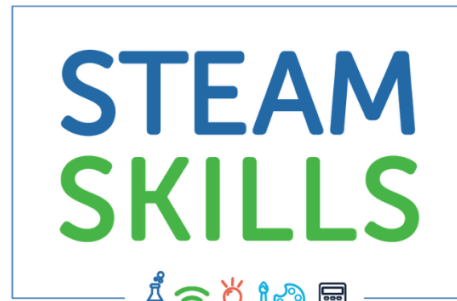
- **Activity:** [Lesson plan: Who is an inventor, anyways? | PBS NewsHour Classroom](#) In this lesson, students will learn about what it means to be an inventor and think creatively about improving something they are passionate about. First, students will watch a short video about a teen inventor who used creative thinking to improve the experience of others. Then students will draw connections between the young inventor and their own passions and interests.
- **Article:** [35 of the most revolutionary inventions that shaped our world - Interesting Engineering](#) From ancient tools to the latest digital advances, these human inventions changed the world and transformed life on Earth.
- **Article:** [Things You Didn't Know Were Invented by Black Women \(businessinsider.com\)](#) Black women have invented satellite technology and instruments for cataract surgery. This short (and incomplete list) highlights important contributions by Black women.
- **Article:** [How Hedy Lamarr and Her Inventions Changed the World \(leaders.com\)](#) Hedy Lamarr was the type of woman judgmental people love to underestimate. She was only known for her beauty and once known as the most beautiful woman in the world

and was an actress in films. However, as Lamarr once said, “The brains of people are more interesting than the looks . . .” This especially rang true with her. *She was one of the most prolific inventors of the 20th century*, embodying the phrase “women in tech” before the concept even existed. *She invented the technology that powers so much of our world today. developed frequency hopping—the technology behind WiFi, Bluetooth, and GPS.* She said: “All creative people want to do the unexpected.”

- **Article:** [51 Female Inventors and Inventions That Changed the World - Interesting Engineering](#) These 51 women optimized the inventor’s spirit and created life-changing inventions and discoveries that forever transformed our world. Meet the women behind these world-changing discoveries and inventions who brought not only creativity but determination to succeed.
- **Article:** [BBC 100 Women: Nine things you didn't know were invented by women](#) When we think of inventors, do we think of the woman who invented space station batteries? Call waiting and caller ID? Learn about these amazing women and their inventions that are used every day.

NYSNYS STEM Events

June



W E B I N A R S

JOIN US JUNE 6TH AT 4PM

SO YOU WANT TO START A STEM
CLUB SESSION 2

June 6th at 4pm So You Want to Start a STEM Club Session 2

Session 2: Unleashing Creativity: Crafting Curricula and Themes for STEM Adventures

Building on the groundwork laid in Session 1, this session will focus on designing the heart of your STEM club: the curriculum and themes. We'll explore STEAM (Science, Technology, Engineering, Arts, and Mathematics) integration, brainstorm exciting project ideas, and select themes that resonate with club members. Whether it's robotics, environmental science, coding, or beyond, we'll help you tailor your club's offerings to spark curiosity and foster learning. Additionally, we'll share tips and strategies for executing club meetings and events seamlessly, ensuring a rewarding experience for both educators and club members alike.

By the end of this workshop series, you'll leave with the knowledge, tools, and inspiration to confidently launch and lead your very own STEM club, igniting a passion for inquiry, discovery, and innovation in the next generation of STEM enthusiasts!

[Click here](#) to register

**STEAM Skills Webinars do not offer CTLE credits*

Asking Purposeful Questions: An Overview Preguntando con Propósito:
August 15 @ 12:30 pm - 2:30 pm

What are Purposeful Questions? Click2Science defines purposeful questions as well-placed questions that drive STEM experiences and design questions while helping learners understand what they should focus on, and where they should go next.

Qué son Preguntas con Propósito? Click2Science define preguntas con Propósito aquellas preguntas que facilitan experiencias en STEM y diseñan preguntas mientras se ayuda a los estudiantes a entender el propósito (o lo que se está focalizando en entender, o lo que se deberían prepararse para pensar o focalizarse en el próximo paso)

Join Dr. Lorena Harris to learn how to ask good questions with youth. This session will include two follow-up meetings to help you implement what you learn with coaching and feedback. The session will be conducted in Spanish.

Aprenden a hacer buenas preguntas para jóvenes con la Dra. Lorena Harris. Esta sesión incluirá dos clases (una seguida de la otra) para ayudarte a implementar lo aprendido, como educador y asesorador a tus educadores. La sesión será implementada en Español.

The session will not count for OCFS training credit.

Esta sesión no cuenta como crédito para las horas / créditos de OCFS.

First, **enroll in ACRES**. This is no-cost to you.

Primero, regístrate en ACRES. Gratis para ti.

Once you are logged in, **sign up for this opportunity** using the code **NY373 PQ**.

Una vez registrado, regístrate en esta oportunidad usando el código **NY373PQ**

Register by Wednesday, August 7th to ensure your spot!

El periodo para registro está abierto hasta el Miércoles, Agosto 7th para asegurar tu cupo en el curso.

When: August 15th, August 22nd, and August 29th, 12:30 PM.

Cuándo: Agosto 15, Agosto 22 y Agosto 29 a las 12:30 PM.

Register by signing up for ACRES here, and then enrolling in **this course** using the code **NY373PQ**.

Regístrate en ACRES acá, y luego anotate en este curso usando el código Cohort_ID NY373PQ

Activities for June 2024

Million Girls Moonshot

Check out these fun STEAM activities from Million Girls Moonshot!

- **Interactive online resource:** [Surfers Against Sewage Virtual Tour | Explore in 360° \(digitaloceanschool.com\)](#) Videos and interactive activities to teach about conservation. After learning about them, students have the opportunity to protect the resources.
- **Fact sheet** [Why should we care about the ocean? \(noaa.gov\)](#) Our ocean provides countless benefits to our planet and all the creatures that live here. It gives us more than half of the **oxygen** we breathe. It regulates the climate, absorbs a quarter of the carbon that we put into the atmosphere every year, provides livelihoods for hundreds of millions of people, and contributes hundreds of billions of dollars to the global economy. Get the facts!
- **Interactive online activities:** [For Students | Office of National Marine Sanctuaries \(noaa.gov\)](#) National marine sanctuaries are living classrooms that can be explored in person or through interactive digital labs and activities., Find games, online story books, information on marine careers, activities, free materials and other cool stuff on this NOAA website.
- **Activity:** [Hands-on science activities | National Oceanic and Atmospheric Administration \(noaa.gov\)](#) hands-on activities that can be done in 15-30 minutes that get students thinking about how things really work, and how to engineer a cleaner, safer ocean.
- **Activity:** [Drinking Water Cleanup | STEM Activity \(sciencebuddies.org\)](#) Where does drinking water come from? ? It comes out of the faucet, but how does it get there? Drinking water all over the world originates from either surface waters—such as lakes, reservoirs, and rivers—or from underground sources, such as groundwater. Create (engineer) a filter to clean water to the point where it is clean enough to drink
- **Activity:** <https://www.sciencebuddies.org/stem-activities/subjects/environmental-engineering> Wind turbines are large towers with blades on top that are spun by the wind. They are a great source of clean, renewable energy. Environmental engineers have to figure out where to put wind turbines so they get the best exposure to steady, consistent winds. In this project, students play the role of an environmental engineer and figure out whether it is a good idea to put wind turbines near tall buildings
- **Activity:** [15 Cool Conservation Activities for Kids \(mummymummymum.com\)](#) These hands-on, minds-on activities allow kids to understand conservation and the importance of it through activities and learning instead of hearing about it in a textbook. While you can't make all environmental concepts visual, conservation is a great place to start! Here are 15 cool conservation activities for kids to do that incorporate engineering.
- **Activity:** [Building a Grape Smasher - Click 2 Engineering](#) Using simple, readily available materials. Work in a team to a c machine from simple supplies that can smash a grape. Click2Engineering includes activity instructions, a video, and link to other resources.

MGM Events

ACRES Coaching: Make Math Engaging
Mondays: 6/17, and 7/1 at 10AM- 12PM EST



Are you looking for fun ways to help youth build number sense and problem-solving skills? Math can take on new meaning when it is integrated into daily routines in our afterschool programs. In this module, afterschool educators will explore and practice strategies for making math engaging and accessible. *The expectation is that you will be live at all three sessions and an active member of this coaching cohort. Recordings are not available if you are unable to attend. Completion of the Asking Purposeful Questions module is a prerequisite for this module.

[REGISTER HERE](#) Code: **AC352MP (Coach Becky T)**

Info Session about Micro-credentials and Digital Badging
Thursday, June 6th 4:00 - 5:00 pm EST



ACRES (Afterschool Coaching for Reflective Educators in STEM) is excited to offer additional Information Sessions about STEM micro-credentials, which are competency-

based, digital badges for afterschool and out-of-school professionals offered through the National Afterschool Association. These sessions are free, live, interactive, and one hour in length. You will learn about what Micro-credentials are and how to apply for them. **PLEASE FILL OUT THIS FORM**, choose the date that works best for you, and we'll reach out to you with the Zoom link. FMI contact acres@mmsa.org

New IF/THEN Champions Network



The National Girls Collaborative Project and the Association of Science and Technology Centers, are thrilled to announce the launch of the new IF/THEN® Champions Network, an extension of the IF/THEN® Initiative [[@ifthenshecan](https://twitter.com/ifthenshecan)] backed by Lyda Hill Philanthropies:

Why Join?

- **Free Membership:** Open to all US-based ASTC science centers, museums, allied members, and individual professionals committed to gender equity.
- **Exclusive Benefits:** Access a wealth of resources including professional development workshops, webinars, and funding opportunities for organizational members.
- **Connect and Grow:** Engage with a community of like-minded gender equity champions sharing resources and other support to boost programs and exhibits.

Members commit to promoting network activities, participating in webinars, and driving meaningful change within their communities.

Join Today: [Visit our webpage](#) to learn more about the membership tiers and benefits.

Questions? Check out our FAQ or reach out directly to early@ngcproject.org.
Join us in advancing gender equity in STEM! #IFTHENChampions #GenderEquityInSTEM

More Events and Resources

**NASEF Farmcraft
Summer Challenges**



NASEF is thrilled to announce Summer Farmcraft! We know that youth around the world love to complete our challenges about agriculture. We have two unique challenges in store this summer: a Build Challenge and a "Code a Farming Game in Minecraft" Challenge. We'll provide plenty of information to support youth who enter the challenge, whether they're in a school or after-school program, summer camp, or even joining at home. Sign up today using the button below!

[Click here](#) to Register

September: DiscoverE Chats with Change Makers (Thursdays 1pm)



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 at 1pm for LIVE monthly chats!

- **Coming Back this September**

**Whymaker
July**



**NYS CLEAN ENERGY
EDUCATOR INSTITUTES**

**APPLY FOR THESE FREE EVENTS:
CleanEnergyForEducators.com**

NYC: July 15-18 Buffalo: July 22-25

**Open to NYS certified teachers,
currently teaching grades 4-12**

Receive:

- Lesson plans,
- Materials for your classroom,
- Leadership opportunities,
- CTLE credits,
- And stipends!



New York State
CLEAN ENERGY
Educator Institute
2024

There are over 10 million jobs currently in the world revolving around renewable energy and many educators and students are unaware of all these opportunities available to them. WhyMaker is a leader in helping educators guide their students towards the many fruitful career opportunities available to them across a broad range of skills and interests.

[Whymaker](#) PD sessions for educators always allow for their voices and knowledge to be honored and respected, while pushing them to move their instructional practices to the next level. They currently have Clean Energy events available to NYS certified teachers for this summer in Buffalo and NYC.

[Click here](#) to Register

Introducing Starforce



QUEST Starforce offers a balanced approach to early learning with engaging gameplay aligned to CASEL competencies, including purposeful play, meaningful social interaction, integrated reflection, and hands-on activities for summer and afterschool programs.

- Help build the foundation for excellent communication, problem-solving, critical thinking, and teamwork skills.
- Quickly support emergent bilingual and English language learners PLUS facilitators with in-product materials, including language learning strategies and scaffolds for all episodes in Spanish.
- Effortlessly provide young learners the autonomy to learn, explore, try, and build perseverance and independence.
- Create engaging connections to math, literacy, science, and art standards.
- Seamlessly foster home-school connections in English and Spanish to ensure students' learning transfers. [Explore Starforce for Summer](#)

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 June submissions to NYTEAM4girls@gmail.com by 1 PM on **Friday, June 28th**. We will try our best to include all inputs received! Email us at the same address if you have questions.



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[Unsubscribe](#)