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Your April STEAM Girls' Collaborative Newsletter!

1 message

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New York STEAM Girls' Collaborative Newsletter April 2024



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Spotlight: Citizen Science Month takes on the Total Solar Eclipse in NY



Let's celebrate Citizen Science Month with resources from NASA and I♥NY to encourage the collaboration between play and science:

- **NASA:** On April 8, 2024, participants both in and outside the eclipse path can join [NASA](#) to learn more about our Sun and Earth and the effects of a total solar eclipse. Don't have experience doing science? No problem! Projects are available for participants of any skill level.
- **I♥NY:** Find tips on how to have safe and enjoyable eclipse viewing experience, [resources for educators](#), and fun activities for families and kids.

National #STEMWEEK

April 6th - 14th

Afterschool STEM Congressional Briefing in Washington DC

If you are in the Washington DC area, you are invited to this Afterschool STEM Congressional Briefing on April 11, 2024, from 2:00 - 3:00 PM ET in the Senate Russell Office Building, Room 385.

Event Details: Join us for a briefing highlighting how afterschool STEM (science, technology, engineering, and math) programs support high school youth. Employers of STEM talent and program practitioners will discuss the ways that afterschool and summer STEM programs support youth, advance their higher education and career trajectories, and build a sense of belonging in STEM fields. We will also discuss the role of public funding for afterschool STEM programs in cultivating our future workforce and a scientifically literate, civically engaged society.

[Click here](#) to register.



[#STEMweek](#) is from April 6th to 14th, and features over 100 events! This is your golden ticket to the wonders of Science, Technology, Engineering, and Math with a diverse lineup of free events both online and in your community. Dive into the [detailed guide](#) for #STEMweek and start planning your journey of exploration.

Here's a preview of some unmissable events:

- **Tour of the U. Maryland Nuclear Reactor:** Embark on a tour with the University of Maryland and the American Nuclear Society. Explore the UMD Training Reactor and witness the American Nuclear Society's Visualizing Radiation Cloud Chamber in action.
- **Meet the CDC's Disease Detectives:** Engage with stories from the front lines as public health STEM experts discuss their investigations into disease outbreaks and public health threats.
- **Beach Clean-Up with Greater Cleveland Aquarium:** Contribute to keeping our waterways clean. Volunteers of all ages are welcome, and each participant will be

gifted a complimentary, same-day ticket to the Aquarium.

- **Morning Glories:** Join Radiolab's Molly Webster for a family-friendly reading of her space-themed book, "Little Black Hole," a tale about belonging and the power of friendship.
- **Water Renewal Tour:** Take a 60-minute walking tour for an exclusive look at the City of Boise's water renewal process. Learn how they reclaim water, recover resources, and safeguard the Boise River.

The highlight of the week is the [National STEM Festival](#) on Saturday, April 13th. Haven't secured [your free ticket](#) yet? Consider this a friendly reminder. You don't want to miss this event, where innovation and creativity are the stars of the show.

NYSNYS STEM Events

April and May



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Enabling the workforce of the future, today.

nys NEW YORK STATE NETWORK FOR YOUTH SUCCESS

Spark with STEAM

CREATIVE COMPUTING WITH ELECTRONICS

KNOWLEDGE SERIES

Hosted by NYSNYS
Presentation By Thimble.io

THURSDAY **TIME**
April 25 12 PM EST

Join **Thimble.io** for an electrifying knowledge series experience titled "Spark with STEAM: Creative Computing with Electronics." Whether you're an educator, an after-school instructor, or simply passionate about STEAM education, this session is crafted to immerse you in the dynamic world of creative computing and electronics integration. Sign up and join us to discover how to ignite curiosity through creative computing and electronics!

Thimble.io's mission is to empower students and educators across the globe with accessible and relevant STEM education.

April 25th at 12pm Spark with STEAM: Creative Computing with Electronics

Join Thimble.io for an electrifying knowledge series experience titled "Spark with STEAM: Creative Computing with Electronics." Whether you're an educator, an after-school instructor, or simply passionate about STEAM education, this session is crafted to immerse you in the dynamic world of creative computing and electronics integration. Sign up and join us to discover how to ignite curiosity through creative computing and electronics!

[Click here](#) to register.

So You Want to Start a STEM Club Sessions 1 and 2

Are you passionate about fostering curiosity, creativity, and collaboration in young minds? Join us for a comprehensive workshop designed for educators eager to launch their own (Science, Technology, Engineering, and Mathematics) STEM club! Over two engaging one-hour sessions, we'll explore everything you need to know to kickstart your club successfully.

May 16th at 4pm So You Want to Start a STEM Club Session 1

Session 1: Building Your STEM Club Foundation

In this session, we'll delve into the fundamentals of launching a STEM club. From defining your club's mission and goals to securing resources and setting up logistics, we'll guide you through the essential steps to ensure a strong foundation. Additionally, we'll discuss the importance of partnerships, role models, and collaborations with local organizations, businesses, and educational institutions to enrich your club's offerings and opportunities.

[Click here](#) to register

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

Activities for April 2024

Million Girls Moonshot

- [dna activities for kids - Yahoo Search Results Video Search Results](#) This video designed for kids is a fun/exciting way to introduce DNA to children. In this video kids will learn facts all about DNA, what it is made of, chromosomes, traits and much more. There are additional DNA teaching resources, including a free lesson plan found here: <https://learnbright.org/lessons/science/dna>
- [PLT GreenJobs MonitoringForestHealth.pdf](#) Through a variety of health indicators, learners assess the health of a forested area and see how soil scientists, wildlife biologists, arborists, and other forest professionals monitor forests. This activity supports STEM identity by relating through role model and career connections.
- [How To Make Seed Bombs - Little Bins for Little Hands](#) Kick off your [spring science](#) with a fun Earth Day activity and make seed bombs with your kids! Super easy and fun to make, help youth connect to their impact on the environment, start a new tradition to celebrate Earth Day and learn how to make seed bombs or seed

balls. This website also features other STEM activities for kids in environmental education.

- [Do-It-Yourself DNA | STEM Activity \(sciencebuddies.org\)](#) In this activity, you will make your own DNA extraction kit from household chemicals and use it to extract DNA from strawberries.
- [Investigate Alien Genetics | Lesson Plan \(sciencebuddies.org\)](#) Students model how traits are passed on from parents to their offspring by creating baby aliens based on the alien parents' traits. As students compare the physical features of their alien families, they will be able to make the connection between an organism's genotype and phenotype. Students will also learn the difference between dominant and recessive traits.
- [Extracting Onion DNA | Science Project \(sciencebuddies.org\)](#) In this project, you'll learn how to isolate DNA from onion cells, separating it from other cellular components in a manner that still preserves its structure and sequence. In the end, you'll have enough DNA to see with the unaided eye, and you'll be able to spool it to demonstrate its strand-like structure.

NGCP Events and Resources



April 11th at 6PM Cyber-Rights: A Virtual Town Hall Event

This Virtual Town Hall will explore the role of cybersecurity in safeguarding privacy and human rights. Hosted by NGCP Board Member, Sandra Yang, this event features experts who offer insights and strategies for social media users and software developers. Discussions will include the digital education gap and AI accuracy impact on censorship. Empower yourself to advocate for digital rights and find inspiration, whether you're a teenager navigating an interconnected world or a tech professional seeking new perspectives.

[Click here](#) to register.

**April 18th at 1PM Empowering Young Creators with Design Squad Latinx**

Learn all about Design Squad Latinx (DSL), an exciting bilingual (Spanish–English) initiative that engages kids ages 10–13 in the engineering design process through fun-packed, high-energy, hands-on challenges. Nicki Sirianni (Education Outreach & Marketing Manager for GBH Education) will share how the program was developed with and for Latinx communities in the continental United States and Puerto Rico. See how DSL encourages kids to apply their own valuable existing funds of knowledge to solving meaningful problems and in doing so, supports them in seeing themselves as the designers, engineers, and creators that they are.

[Click here](#) to register.

April 30th at 3PM NGCP Celebrates Citizen Science

Contribute to citizen science this April! Citizen science is open to all and involves curious people whose individual acts contribute to a collective impact that is accelerating scientific research, discoveries, and local actions that improve the world. Join NGCP to learn how you can get involved with citizen science and join the One Million Acts of Science campaign.

[Click here](#) to register.

Celebrate Earth Day on April 22

Engage youth in learning about the impacts of climate change with resources for grades pre-K-12, curated by [Common Sense Education](#).

[Subject to Climate's](#) Earth Day Teacher Guide includes lesson plans and activities to inspire interest in environmental projection for grades K-12.

Free Public Engagement Resources to Prepare for the April 8 Solar Eclipse

On Monday, April 8, 2024, a total solar eclipse will be seen in the US from Texas to Maine. The [NISE Network](#) has prepared resources to help you plan ahead to engage public audiences in your community.

STEP UP

A national community of physics teachers, researchers, and professional societies, designs high school physics lessons to empower teachers, create cultural change, and inspire young women to pursue physics in college, and includes free, [virtual Monthly Workshops](#).

More Events and Resources

April 25: 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!

- **Apr 25**
- **May 23**

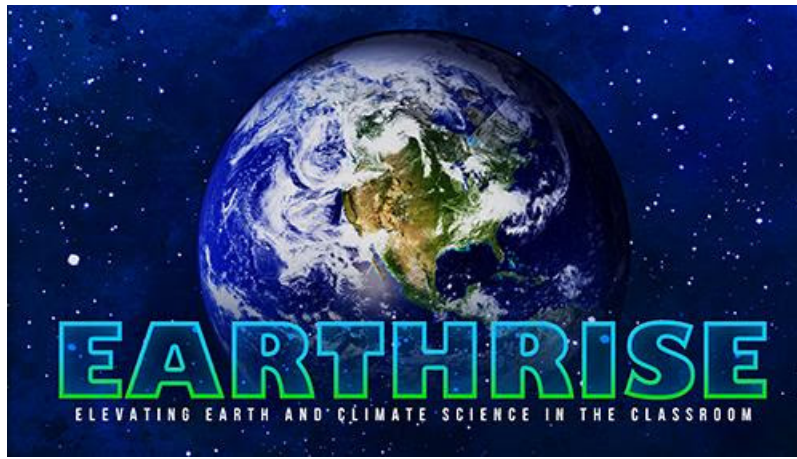


April 24th at 12pm Click2Engineering's Including All Learners in Engineering

In a highly competitive world, how do we create program spaces that help young people feel like engineering is a discipline in which they can succeed and thrive? Join this virtual workshop to develop strategies for creating engineering experiences that are engaging for all youth. Dive into what makes an engineering activity open and inclusive. Experience hands-on engineering and come away with ideas you can put into practice.

[Click here](#) to register

Earthrise March Issue



The March 2024 Issue of Earthrise is out with a theme of water this month! There are water resources galore with videos and lessons for teachers on water as well as a great citizen science project on clouds for the Eclipse! [Sign up](#) for the newsletter and see their previous [issues here](#).

NYS Office of Children and Family Services Newsletter



The first 2024 edition of the quarterly newsletter from the New York State Office of Children and Family Services (OCFS) Division of Child Care Services (DCCS) is released!! The newsletter includes information and updates from DCCS on the Governor's Executive Budget, child care workforce recruitment tool kit, our no cost pack 'n play initiative, and information on upcoming training sessions!

They also want to hear from you! A short survey has been created to learn more about what parents, providers, and the public at large looks for when choosing child care and what they feel makes a quality program. The survey will stay open until May 31, 2024, and the results will then be used in future planning.

Please check out this edition of the newsletter on the OCFS website at:
<https://ocfs.ny.gov/programs/childcare/assets/newsletter/>

The Finger Lakes Regional STEM Hub is pleased to announce the 2024 STEM Project Recognition Awards!
 Available to the 9 County greater Rochester and Finger Lakes Region

Do you know a youth or group of youth who have an interest in sharing a project they've worked on in STEM? The Finger Lakes Regional STEM Hub is seeking to promote exemplary K-12 students by showcasing their Science, Technology, Engineering and Math (STEM) projects. We're inviting you to make a 2-5 minute video sharing the what, why and how of your student-led exploration and all the wonderful things you've learned. Classroom, afterschool, homeschool groups - or even individual youth - all are welcome to participate!

Student projects will be recognized and shared to inspire others in the education field to incorporate STEM at any level, and to encourage all youth to explore the ideas that make them curious.

For more details use the link to the website ([STEM Recognition – FLXSTEM Hub](#)), where you will find the required forms and directions for uploading your video. Open submission until 5:00 PM, Friday, **May 24th, 2024**.

TKS Fall Youth Program

[TKS](#) is actively looking for ambitious youth to apply for the Fall 2024 Tech and Innovation Program. The program runs from September to June and has an in-person cohort in either New York City or a global virtual program online.

[TKS is the world's top innovation program for students aged 13-17](#). The program is designed to make students future-ready with the tools and mindsets needed to solve important problems in the world.

TKS alumni have gone on to become the youngest employees at SpaceX, NASA, Google, Microsoft, Tesla, and OpenAI. They've started companies valued at over \$500 million and earned full-ride scholarships to MIT, Harvard, Stanford and more.

By the end of the 10-month program, students will:

- **Gain real-world work experience** with organizations like Google, Meta, Airbnb, the United Nations and Mastercard
- **Be future-ready** with a good understanding of emerging technologies like Artificial Intelligence, Quantum Computing, Synthetic Biology, Regenerative Medicine, Nanotech, and Blockchain
- **Develop a portfolio** of projects that can be used to stand out in university applications, internships, and more
- **Learn the mindsets, confidence, and problem-solving abilities** you'll need to be a leader
- **Be mentored** by industry professionals, including mentors from Netflix, Stanford, Uber, Apple, SpaceX, and more
- Have the chance to **earn opportunities like speaking events and scholarships**

They are looking for curiosity, drive, and willingness to put in the work. They don't look at grades, and there's no prerequisite to apply. There is also up to 100% tuition support! Applications are due **April 30th**. [Click here to apply](#).

Native Rising STEM Camp 2024

Join Native Rising in Washington D.C., from July 27th to August 2nd, 2024, for an extraordinary week of discovery, learning, and empowerment at the Natives Rising STEM Camp.

This immersive week is filled with hands-on activities and workshops designed to ignite passion and curiosity in STEM. The 6-day camp, designed for high school juniors and seniors, collaborates with Microsoft, the State Department, leading universities, technical colleges, tech companies, and other esteemed partners.

Why Attend?

- Explore the World of STEM: Dive into hands-on workshops covering exciting fields like cybersecurity, coding, artificial intelligence (AI), robotics, engineering, and more.
- Envision your future: Learn about technical degree programs offered by top universities and colleges and get a glimpse into tech careers with leading organizations.
- Networking Opportunities: Connect with peers and learn from industry leaders and educators.

All Expenses Paid

At Natives Rising, along with our partners, we are committed to making education accessible. We cover all expenses for accepted students, including tuition, travel, transportation, accommodation, and meals, ensuring that nothing stands in the way of your potential.

The application deadline is **April 30th at 11:59 pm** [Apply Today!](#)

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 May submissions to NYSTEAM4girls@gmail.com by 1 PM on Friday, April 26th. We will try our best to include all inputs received! Email us at the same address if you have questions.



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