

TOMORROW STEMS FROM IOWA

GOVERNOR'S STEM ADVISORY COUNCIL

NORTH CENTRAL IOWA STEM REGION

North Central STEM Region

April 2024

Iowa Globe Program



The GLOBE Program is a partnership between students, teachers, and scientists all around the world to learn about Earth's Systems, including water, soils, landcover, air, and seasons.

Each GLOBE Protocol (way to collect data) is connected to a satellite mission to Earth and students of all ages can participate. That means all our students can help scientists learn about our planet. But that's not all! Once a student is making

GLOBE observations about their local area (where they are the experts) they will inherently observe phenomena that surprise them. "That's weird!" and "I didn't expect that." are commonly heard in GLOBE classes.

Because all of GLOBE Data is also available to students, this means students can use GLOBE data to answer their own questions too. "How does our data compare to others?" Through GLOBE students can be both service learners and scientists! Learn more at [globe.gov](https://www.globe.gov).

Become a GLOBE Trained Teacher

GLOBE now offers free online GLOBE Certification for teachers. Learn about eTraining and in-person workshops here: <https://www.globe.gov/get-trained/user-roadmaps/formal-educators>

eTraining workshops are completely free and at your own pace. They involve completing the Introduction to GLOBE Module and a specific set of content modules based on your interests, see the list of required modules for each content area here: <https://www.globe.gov/get-trained/protocol-etaining/protocol-requirements>.

Iowa classroom teachers may contact University of Northern Iowa STEM Coordinator, Marcy Seavey, marcene.seavey@uni.edu with questions about GLOBE. Not a teacher? Check out the GLOBE Citizen Science Options: <https://observer.globe.gov/>

Join Us For an Iowa Science Phenomena Blitz in Ida Grove

Explore Moorehead Park!




April 27, 9 a.m. - noon

Learn about taking **PHOTOS** and **VIDEOS** of nature **WITH YOUR PHONE**.



[iowaphenomena.org](https://www.iowaphenomena.org)

 Funded by the Resource Enhancement and Protection Conservation Education Program

April 27, 2024

9 a.m.-12 p.m. General Public Event

1 p.m. - 4 p.m. Educator-Only Workshop

Moorehead Park, Ida County

The Iowa Science Phenomena website from Iowa PBS offers a growing collection of local standards-aligned phenomena, unique and relevant to the students and teachers of Iowa. You are invited to contribute to this collection by joining this one-day regional workshop!

FREE! General Public Event: Choose one of two guided hikes through the park to experience the beauty of spring in northwest Iowa as you identify unique natural phenomena. Before the tour we will offer valuable tips and tricks to help improve your own amateur nature photography skills to help you capture these phenomena with your own phone or camera.

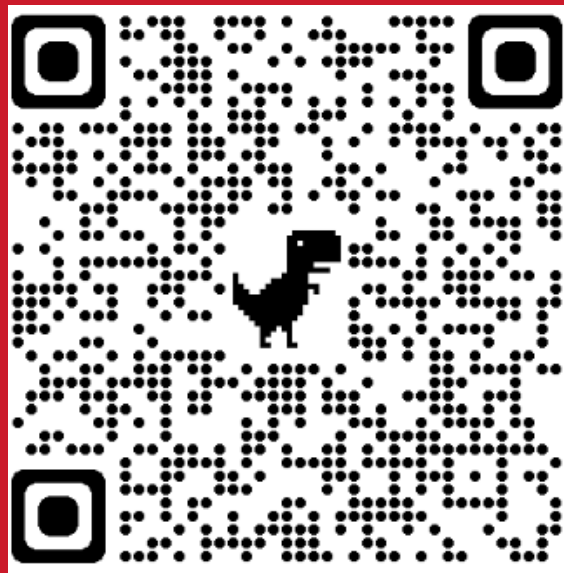
FREE! Educator-Only Workshop: In the afternoon, bring your laptop and enjoy a provided lunch for an educators-only workshop. This casual workshop, facilitated by science education experts, will allow you to:

- Review and select phenomena captured in the morning hike;
- Practice strategies to align that selected phenomena to Iowa science standards;
- Work alongside other educators to design standards-aligned classroom resources featuring the unique natural aspect of northwest Iowa;
- Have an opportunity to share your created resources with Iowa teachers and students through publication on the Iowa Science Phenomena website!

Please note: attending this morning guided hike session is encouraged, but not required in order to participate in the afternoon session.

This event is free, but space in the educator-only workshop is limited so reserve your spot today! Use the QR code to register

Questions? Contact iowaphenomena@iowapbs.org



Spring STEM Festivals A Plenty!



This spring, we have partnered in bringing STEM festivals to communities in our region. So far, Osage and Boone have held their festivals with great attendance and feedback. Our next festival will be in Mason City on April 17 from 4-7 PM. We hope you can join us! If you're interested in bringing a festival to your area, please reach out to Mauree Haage at mhaage@iastate.edu.



Teacher Externship Positions Needed in NC

Iowa

Externship Program Manager, Ann Gritzner, has many of the Summer 2024 positions filled, but there are a few great spots left! While the location is within the NW Region, any Iowa educator in any of the six regions is invited to apply and drive to the host city.

Below, you'll see the host, city, and type of teacher that might best fit.

- City of Ames - Electric Services
- Iowa DNR Prairie Resource Unit - LeHigh
- John Deere - Paton
- Midland Power Cooperative - Boone
- POET - Gowrie
- Zoetis - Charles City

If you're interested in a position, but not the perfect content fit, please reach out to Gritzner (gritzner@iowastem.org) to see if your skills and/or curriculum trajectory match.

STEM Challenge Cards

PLAY DOUGH ANIMAL CHALLENGE

Materials to Gather: Hair conditioner (1/2 cup), Corn Starch(1 cup), Sparkles or food coloring.

Directions:
Place cornstarch in a large bowl. Mix in the hair conditioner with your hands until it becomes smooth and pliable. Add a drop or two of the food coloring, or colored sparkles for variation. Add additional hair conditioner when needed to remain soft.

Animal Challenge: Shape your play dough into various animals. How many can you make? Take a picture or video, and post to the NC STEM Region Facebook page!

***Note - This recipe is not edible! don't eat the play dough!**



GREATNESS FROM IOWANS
GOVERNOR'S STEM ADVISORY COUNCIL
NORTH CENTRAL IOWA STEM REGION

In addition to our checkout library, we have STEM Challenge Cards available by request. Each card has an easy to prepare STEM challenge for when you're looking for an activity to either supplement content or for students to do during transitional times in the classroom. In addition to the cards, some materials can be requested as well, though many are found easily at home.

To look at the challenge options and request any, click here:

[STEM Challenge Card Checkout Check-Out Form](#)

STEM Checkout Library



Storytime STEM-Packs and several former STEM Scale-Up kits are now available for checkout. These packs are a great hands on, creative way for students to learn more about various STEM concepts.

Learn more about available kits here:
[Stem Pack Checkout Information](#)

Request a kit here: [Check-Out Form](#)

Note: We will be closing the checkout library from June 1-June 30 for restocking and inventory. Please contact us if you are needing kits returned. If you are needing a kit during that time, please reach out to make those arrangements. Thank you!

Upcoming Events!

April 17 - North Iowa STEM Festival (4:30-7:30 PM)

April 17 - STEM Festival in Mason City

May 10 - NC STEM Advisory Board Meeting

***Know of other STEM events in North Central Iowa? Email us at:
ncstem@iastate.edu***

Connect with us!

NC Regional Manager:

Mauree Haage

Website: <https://ncstemhub.iastate.edu>

Email: ncstem@iastate.edu

Phone: 515-294-0645

Address:

NC STEM Hub

Extension 4-H Building

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