

# TOMORROW STEMS FROM IOWA

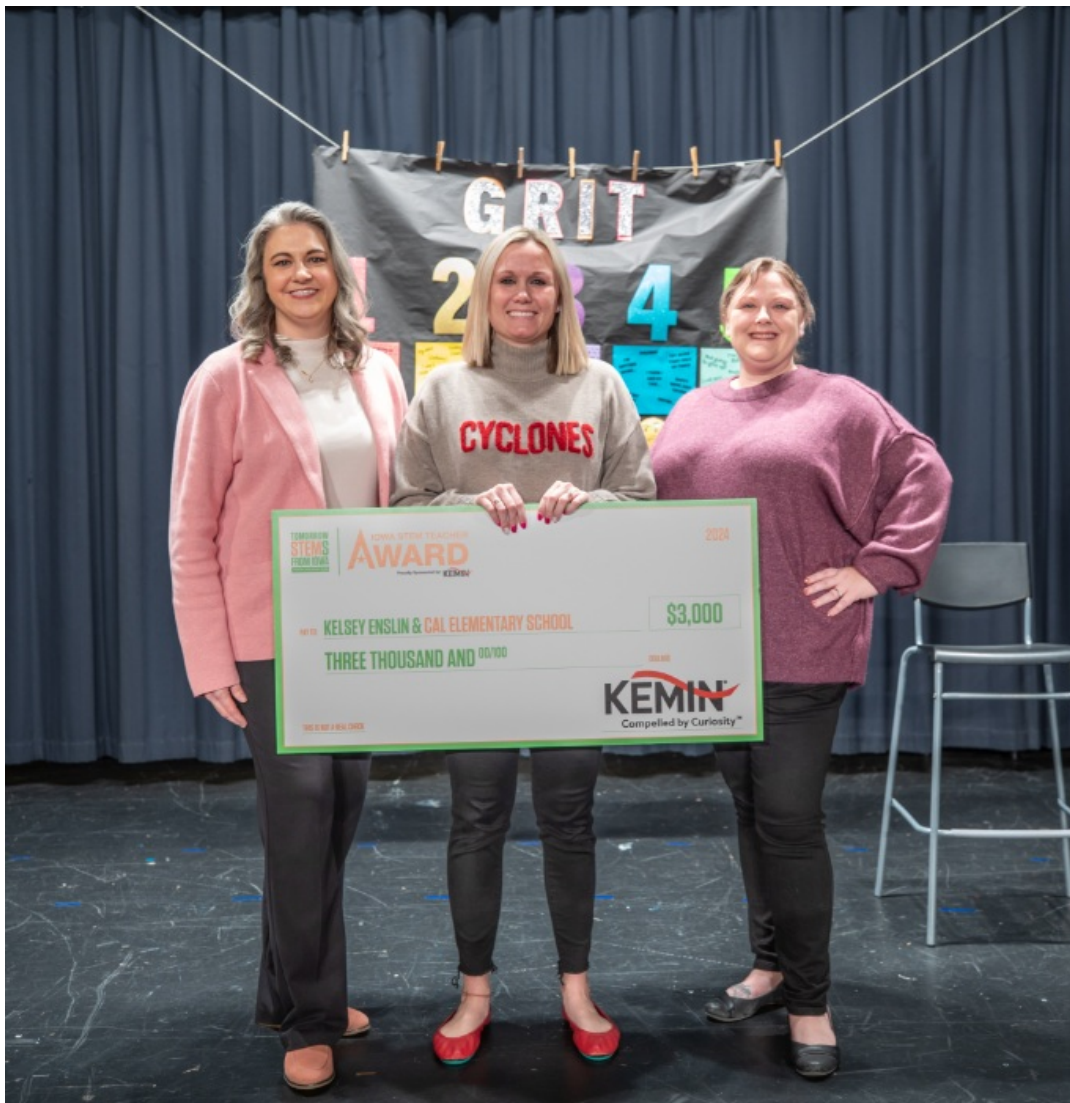
GOVERNOR'S STEM ADVISORY COUNCIL

NORTH CENTRAL IOWA STEM REGION

## North Central STEM Region

March 2024

### Congratulations to the 2024 NC STEM Teacher Awardee



The Iowa Governor's STEM Advisory Council at the Iowa Department of Education and Kemin Industries have announced the recipients of the 2024 Iowa STEM Teacher Award, sponsored by Kemin Industries.

The North Central STEM region's honoree is Kelsey Enslin, an Instructional Technology teacher at CAL Elementary School in Latimer, Iowa. Ms. Enslin is being recognized for her efforts in collaborating with teachers at CAL to integrate STEM into areas such as literacy, math, and social studies. Using Enslin's expertise, teachers are finding opportunities for students to be more engaged, by participating in STEM activities throughout their day.

Ms. Enslin introduces coding and robotics to the school's youngest students, 3 year-old preschoolers, ensuring that when students leave the CAL school district, they will have had nine years of experience with coding and related technology.

According to one of her nominator's for this award, Kelsey seeks out and pilots educational technology through the local AEA. When she finds something that will benefit students, Kelsey pursues funding so that the school is able to purchase the technology on a scale that allows students to use it on a 1:1 or 2:1 ratio.

In her application for this award, Enslin stated "We feel it is our responsibility to provide experiences to our students so that they see the value in STEM and Ag. Working with partnerships has allowed us to see how eager our community is to collaborate to provide authentic learning to our students."

Now in its 10th year, the Iowa STEM Teacher Award is given annually to one full-time, licensed preK-12 teacher from each of the six STEM regions in Iowa. Each recipient is honored for their efforts to foster enthusiasm and inspire a passion for STEM that goes beyond the classroom and helps prepare students for future high-demand careers.

As a recipient of the 2024 Iowa STEM Teacher Award presented by Kemin Industries, Enslin will receive \$1,500 to use for her classroom and \$1,500 for personal use. For more information about the award and all current and previous recipients, please visit <https://iowastem.org/teacheraward>.

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**2024 Iowa Classrooms + Workplaces  
Summit Announced, Registration Required**

## Topics to amplify solutions for connecting education and the workforce



The 2024 statewide Iowa Classrooms+Workplaces Summit will be held on Wednesday, April 10, 2024, at the Iowa Events Center, Community Choice Credit Union Convention Center, in Des Moines.

Presented by the Iowa Governor's STEM Advisory Council at the Iowa Department of Education, the Summit brings together Iowans from business and industry, education, nonprofits, trade organizations, professional societies, governmental agencies, elected officials, students and others to amplify the public conversation and set the stage for inspiring networks, making connections and accessing what is possible to establish learning environments that link classroom learning to real-world career opportunities.

Registration is required. To register and for more information, go to: <https://iowastem.org/2024Summit>. The deadline for registration is April 3. The Summit is open to the public and admission is free of charge thanks to generous sponsors. The day of the event check in starts at 8:30 a.m. with the event running from 9:30 a.m. to 3:30 p.m.

The morning will include a presentation by Code.org Chief Academic Officer Pat Yongpradit on the "Future of Innovation and STEM: CS and AI Education as a Foundation," as well as a presentation by ExcelinEd Senior Policy Fellow Christy Hovanetz on credentials to careers.

Participants will be in for an inspiring presentation by Kemin Industries over the lunchtime with remarks on the importance of science education in our world today along with the recognition of the six STEM Teacher Awardees for 2024. The STEM Teacher Award has been sponsored by Kemin Industries since 2014.

The afternoon breakout sessions will provide an array of options for career-linked learning toward bright horizons and actionable outcomes.

Be a part of the solution to accelerate Iowa's growth and prosperity!

###

About the Iowa Governor's STEM Advisory Council: Established in July 2011 via Governor's Executive Order, the Iowa Governor's STEM Advisory Council leverages public-private partnerships of educators, workplaces and Iowa students and families to ensure that every Iowa student has access to world-class STEM education opportunities. The Council's work supports strong college and career pathways for students and growth for state and local economies. The 44-member STEM Council is co-chaired by Governor Kim Reynolds and Foundation Analytical Laboratory Owner and Director of Technical Services Diane Young. For more information, visit <https://iowastem.org>.

## ISU High School Coding Competition

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**IOWA STATE UNIVERSITY**  
**Department of Computer Science**

**2024 IOWA  
HIGH SCHOOL  
PROGRAMMING  
COMPETITION**

**APRIL 27, 2024**

**FOR MORE INFORMATION AND TO  
LEARN HOW TO REGISTER, GO TO  
[CS.IASTATE.EDU/HSC](https://cs.iastate.edu/hsc)  
OR EMAIL [CSDEPT@IASTATE.EDU](mailto:csdept@iastate.edu)**

Iowa State University Department of Computer Science seeks teams to complete in the FIRST EVER High School Coding Contest!

- Up to 3 students/computer=team
- Solve 10+ problems in 4hrs
- Registration due March 27
- Info: **2024 High School Programming Contest**



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GOVERNOR'S STEM ADVISORY COUNCIL

**IOWA STEM TEACHER  
EXTERNSHIPS 2024**  
PROGRAM

**A majority of STEM Teacher Externs agree that Iowa STEM Teacher Externships are more valuable than any other professional development they have participated in.**

- Build long-lasting school-business partnerships
- Improve student STEM experiences and career knowledge
- Experience a different workplace setting for 6 weeks
- Earn a stipend up to \$5,000 and three graduate credits
- Use the latest real world applications in a workplace setting

**For more information or to apply today visit  
[IowaSTEM.org/Externships](https://IowaSTEM.org/Externships)**

## 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  
STEMS  
FROM IOWANS**  
GOVERNOR'S STEM ADVISORY COUNCIL  
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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.

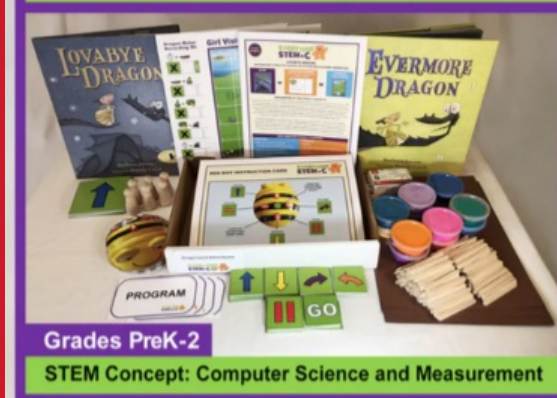
To look at the challenge options and request any, click here:  
[STEM Challenge Card Checkout Check-Out Form](#)

## STEM Checkout Library



Grades PreK-2

STEM Concept: Engineering Design



Grades PreK-2

STEM Concept: Computer Science and Measurement



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**

# BOONE FAMILY STEM FESTIVAL



Saturday,  
April 6th  
9:00 am - Noon

DMACC  
Boone Campus

Free Family Event!  
Fun, Hands-On STEM Activities



BOONE  
CAMPUS




IOWA STATE UNIVERSITY  
Extension and Outreach



IOWA STATE  
UNIVERSITY

## OSAGE S.T.E.A.M. FESTIVAL



**WHERE:**  
Osage, Iowa  
Osage Middle/ High School  
820 Sawyer Drive

**WHEN:**  
**MARCH 14, 2024**  
**Time: 5-8 PM**

Walking Tacos,  
Lemonade, Cookies  
provided by  
**FIRST CITIZENS!**



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Scan this QR Code  
to see what is coming!



# You're Invited to the NORTH IOWA STEM FESTIVAL

4-7PM | April 17, 2024 | North Iowa Area Community College Gym

The goals of the *STEM Festival* are to promote, inspire and engage youth in Science, Technology, Engineering and Mathematics activities and to introduce children and parents to STEM careers.



Experience hands-on STEM activities provided by local businesses and organizations:

- Learn about the science of fermentation while making pizza dough
- Measure ingredients to make smoothies with a bike blender
- Test out a 3D Scanner and Printer
- Encounter live animals and learn about environmental education
- Design your perfect bedroom or house
- Spark your curiosity through an electrifying exploration of electric circuits!
- Handle fiber optics and learn about fusion
- Identify architectural elements and build with blocks
- And more!

Join us for a night of fun, interactive, hands-on learning  
for kindergarten-6th grade students!

#### Festival Sponsors:

TOMORROW  
STEMS  
FROM IOWA

IOWA STATE  
UNIVERSITY  
NORTH CENTRAL IOWA REGION  
COMMUNITY STEM ADVISORY BOARD

IOWA STATE  
UNIVERSITY  
Economic and Outreach  
Cerro Gordo

CHAMBER OF  
COMMERCE  
North Iowa

NIACC

CERRO GORDO  
CLEAN ENERGY DISTRICT

MASON CITY  
SCHOOL DISTRICT

## Upcoming Events!

March 14 - Osage STEAM Family Night (5-8 PM)

March 22 - NC STEM Advisory Board Meeting

April 1 - STEM Summit

April 6 - Boone STEM Festival (9-11 AM)

April 10 - Iowa Classrooms + Workplaces Summit

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

April 17 - STEM Festival in Mason City

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



## Connect with us!

**NC Regional Manager:**

Mauree Haage

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**Email:** [ncstem@iastate.edu](mailto:ncstem@iastate.edu)

**Phone:** 515-294-0645

**Address:**

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1259 Stange Road  
Ames, IA 50011



North Central STEM Network | Extension 4-H Youth Building, Iowa State University, 1259  
Stange Rd,  
Ames, IA 50011-1002

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