



North Central STEM Region

June/July 2024

Summer Scale-Up Program PD

Congratulations to all the schools selected to receive materials and professional development as part of our STEM Scale-Up Program.

Emails have been going out from our providers to recipients with registration links and information on when and where the professional development will occur. If you have not received anything, please check your spam folder or reach out to Mauree Haage at mhaage@iastate.edu.

In the Upcoming Events section of the newsletter, you can find the dates of professional development happening in the north central region this summer.

Thank You NC Region STEM Advisory Board



We want to give a huge shoutout to our region's STEM Advisory Board for all that they do each year. Not only do they provide insight and guidance for STEM in our region, but they help review hundreds of applications each year for our STEM programs. We could not do all that we do without their support.

Allen Barrow	Public University	Ames
Jared Brown	Business/Industry	Ankeny
Kidron Knox	K-12 Student/Parent	Pleasant Hill
Allyson Krull	Economic Development / Chamber of Commerce	Mason City
Melinda McGregor	Community	Mason City
Maria Morales	Regional	Marshalltown
Sara Nelson	Public University	Ames
Michael Pedersen	Hub Institution Rep	Ames
Kay Schmalen	Area Education Agency	Clear Lake
LuAnn Scholbrok	School Board	Forest City
Matthew Stephan	Business/Industry	Fort Dodge

Anne Tedore	ISU Extension and Outreach	Marshalltown
Yen Verhoven	STEM Teacher	Ames
David Zrostlik	Business/Industry	Garner

Cybersecurity Ambassador Program



We are excited to introduce the Cybersecurity Ambassador Program, an innovative initiative designed to enhance cybersecurity literacy among students and cultivate a network of informed digital citizens. Hosted by Iowa State University, this program provides a unique opportunity for high schools to actively participate in shaping a safer digital future.

What is the Cybersecurity Ambassador Program? The Cybersecurity Ambassador Program equips students with essential cybersecurity knowledge and skills through engaging educational content and interactive learning experiences. By starting a chapter at your school, you can empower your students to become leaders in cybersecurity within your community, promoting best practices and raising

awareness on crucial cybersecurity issues.

Why Start a Chapter?

- Educational Impact: Integrating cybersecurity education into your curriculum helps students understand and manage digital risks effectively, preparing them for a secure digital life.
- Skill Development: Students will develop critical thinking, leadership, and public speaking skills as they learn and share their cybersecurity knowledge.
- Community Contribution: Your school will play a crucial role in fostering a digital safety and responsibility culture, benefiting the wider community.

Support for Chapters: Each chapter receives comprehensive support, including:

- Access a library of materials such as videos, infographics, and lesson plans.
- Training and guidelines to effectively run the chapter and engage students.
- Opportunities to participate in events and competitions that enhance learning and visibility.

Join Us: We invite you to be pioneers in this vital educational endeavor. Establishing a Cybersecurity Ambassador chapter at your school is an investment in your students' futures and a significant contribution to community resilience against cyber threats.

To learn more and start a chapter, please visit

<https://www.iowacyberhub.org/ambassadors/>. Let's work together to create a digitally secure future for our students and communities.

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
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](#)

Upcoming Events!

July

- **July 1**
 - Professional Development: Positive Physics
- **July 15**
 - Professional Development: All About Balance
- **July 15-16**
 - Professional Development: Making Innovative STEM Connections
- **July 16**
 - Professional Development: Storytime STEM Earth Day
 - Professional Development: Investigating Everyday Phenomenon
- **July 17**
 - Professional Development: Investigating Everyday Phenomenon
 - Professional Development: Storytime STEM Happy Planet
 - Professional Development: Blackbird Code
- **July 18**
 - Professional Development: Storytime STEM Mouse
- **July 19**
 - Professional Development: Turing Tumble
- **July 22**
 - Professional Development: Storytime STEM Moon
- **July 22-23**
 - Professional Development: Making Innovative STEM Connections
 - Professional Development: FUSE
- **July 23**
 - Professional Development: Storytime STEM Dragonland
 - Professional Development: Positive Physics
- **July 24**
 - Professional Development: Storytime STEM Blue Girl
 - Professional Development: Investigating Everyday Phenomenon
- **July 25**
 - Professional Development: Investigating Everyday Phenomenon
 - Professional Development: AI for K12 Educators
 - Professional Development: Storytime STEM Moon
- **July 25-26**
 - Professional Development: Making Innovative STEM Connections
- **July 29-30**
 - Professional Development: Making Innovative STEM Connections

- **July 30-31**

- Professional Development: Exploring AG

August

- **August 1-2**

- Professional Development: Making Innovative STEM Connections

- **August 5**

- Professional Development: Teachey Math

- **August 5-6**

- Professional Development: Making Innovative STEM Connections

- **August 7**

- Professional Development: Teachey Math

- **August 8**

- Professional Development: All About Balance

- **August 8-9**

- Professional Development: Making Innovative STEM Connections

- **August 14**

- Professional Development: Positive Physics

- **August 18**

- STEM Day at the ISF

September/October

- **September 12-13**

- Professional Development: Making Innovative STEM Connections

- **October 11**

- Professional Development: All About Balance

- **October 19**

- Professional Development: All About Balance

Know of other STEM events in North Central Iowa? Email us at:

ncstem@iastate.edu

Connect with us!

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