



## Back at Headquarters



### October is Cyber Awareness Month

With a myriad of concerns highlighted in the media surrounding cybersecurity, data security, and student data safety, October is a good time to review policies and practices at school, work, and home. According to the federal [Cybersecurity & Infrastructure Security Agency](#), October is designated Cybersecurity Awareness month to “raise awareness about the importance of cybersecurity across our Nation, ensuring that all Americans have the resources they need to be safer and more secure online.” The [U.S. Department of Homeland Security](#) shares helpful resources. [Governor Pritzker proclaimed October as Cyber Awareness Month in Illinois.](#)

The [Learning Technology Center of Illinois](#) “supports Illinois districts through cybersecurity-related technology services, resources, and professional development.” The Learning Technology Center “selected [43 security best practices](#) that all districts should implement to comply with the Student Online Personal Protection Act” and “in partnership with the Department of Innovation & Technology (DoIT) and Ed Leaders Network, developed [two cybersecurity online courses](#) that are available to all Illinois educators.”

“Privacy and Security Curriculum for K-12 Schools,” is a [free curriculum resource that can be requested from Professor Daniel Solove](#), John Marshall Harlan Research Professor of Law at the George Washington University Law School. This resource provides an overview of privacy issues and “includes suggestions for appropriate learning activities for each grade level.”

[Cyberstart America](#) provides a “free immersive cybersecurity training game for high school students, with over 200 fun-to-play challenges.” Registration is open now for students in 9th-12th grade to gain “hands-on experience of real-world cybersecurity tasks and simulations that help you learn the skills you need to succeed!” Students can play CyberStart between October 27, 2021 to April 27, 2022.

---

**Let off some STEAM with these fun activities!**

**K - 4**

**Little STEAMers Early Childhood Programming from the Illinois Mathematics and Science Academy**

**5 - 8**

**The Many Worlds of the Quantum Multiverse—PBS Space Time**

**9 -12**

**QUANTUM COMPUTING ZINES FROM ENABLING PRACTICAL-SCALE QUANTUM COMPUTING (EPSQC)**

---

## **Educator's Corner**

**STEAM resources for in-person, hybrid, remote learning, and professional development**

- [STEM Teaching Tools](#)
- [Illinois Model Program of Study Guides in crucial industry areas](#)
- [Scratch Education Collaborative](#)
- [Computer Science for All Teachers](#)
- [READWRITECODE blog](#)
- [The Code It! Challenge](#)
- [CS for Success](#)



---

## **NASA TechRise Student Challenge**

**ENTRIES DUE: 11:59 p.m. (PT) November 3, 2021**



"The NASA TechRise Student Challenge invites teams of sixth to 12th-grade students to design, build, and launch experiments on suborbital rockets and balloon flights during the upcoming 2021/2022 school year.

---

## **IETC Illinois Education & Technology Conference**

**November 17-19, 2021 | Springfield, IL & Online**

The Learning Technology Center is hosting the 2021 Illinois Education and Technology Conference (IETC) on November 17-19. IETC is an edtech conference focused on technology integration strategies, engaging instructional practices, digital tools and resources, and timely topics like SOPPA, computer science, digital equity, maker spaces, funding, and personalized learning. Attendees can join virtually or in person. Early-bird registration closes October 9.

---

## **Learning Technology Center of Illinois Computer Science Symposium**

**A One-Day virtual conference on Computer Science  
January 14, 2022**

"Join your peers from across the Prairie State for the **2022 Computer Science Symposium**. This one-day, virtual gathering will feature numerous presenters from around the state who are excited to share their CS teaching experiences from across multiple grade levels. CS Symposium attendees will also have the chance to obtain proven curricular resources that can help their school or district fan the flames of their burgeoning CS program without needing to reinvent the wheel." The LTC is still accepting proposals for the Symposium [here](#).

---

## STEAM Resource Spotlight

---



### **University of Illinois College of Veterinary Medicine “The Round Barn Podcast”**

“Welcome to the Round Barn podcast, where faculty members from the University of Illinois tackle issues that are relevant to today's challenges, from livestock production to diagnostics and clinical cases. Look for the Round Barn podcast on your favorite podcatcher or tune in [here](#) to get the latest episodes. “

---

## **Artificial Intelligence for K-12**

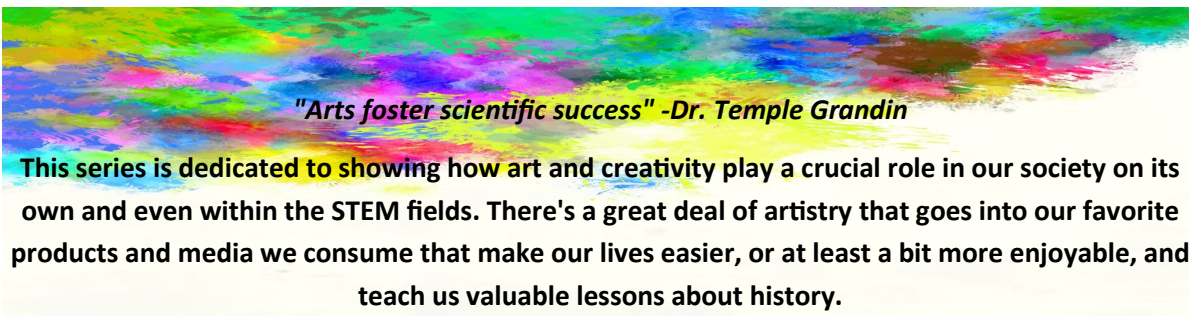
"The Artificial Intelligence (AI) for K-12 initiative ([AI4K12](#)) is jointly sponsored by [AAAI](#) and [CSTA](#).



The initiative is developing (1) national guidelines for AI education for K-12, (2) an online, curated resource Directory to facilitate AI instruction, and (3) a community of practitioners, researchers, resource and tool developers focused on the AI for K-12 audience.”

---

# The 'A' in STEAM



---

## Tunepad

**Pick up code. Drop the beat.**



TunePad was created by the [Tangible Interaction Design and Learning \(TIDAL\)](#) Lab at Northwestern University in collaboration with the EarSketch team at the Georgia Institute of Technology and with funding from the National Science Foundation.

“[TunePad](#) is a **free** online platform for creating music with the Python programming language. Our [step-by-step tutorials](#) are perfect for beginners, and our advanced production tools power music making for experienced users. Music production with the power of code.”



[www.illinois.gov/doit-steam](http://www.illinois.gov/doit-steam)



Follow DoIT on Twitter @IllinoisDoIT



Please submit STEAM ideas, comments, or questions using our [contact us form](#).

---

*Any links being provided are for educational purpose use only; they do not constitute an endorsement, approval, affiliation, sponsorship, or partnership by the State of Illinois, Department of Innovation & Technology (DoIT) of any products, services or opinions of any of the linked entities. The State of Illinois bears no responsibility for the accuracy, legality or content of the external site or for that of subsequent links. Contact the external site for answers to questions regarding its content. The State of Illinois reserves the right to add or remove the links provided at any time without notice in its sole discretion and shall not be obliged to give a reason for doing so.*

---