

VISIT THE DUPAGE ROE STEM WEBSITE AT <http://stemdupage.com/>



Engaging Children with Authentic STEAM Learning Experiences through Design- Based Approaches

[Explore](#) how artistic processes such as design and design thinking can be used to reinforce and further develop teachers' and children's competencies and skills in STEM.



Celebrate the Mouse!

This [contest](#) asks students to develop a creative, educational and informative video essay to explain how they, a family member, friend, or pet, have benefited from medical discoveries made possible thanks to work conducted with mice in biomedical research.



Stunning Scientific Sites in Illinois

You may not realize there is a lot of [fascinating science](#) in Illinois. Explore some of the more interesting sites.



New STEM Learning Resources

Though we typically focus on local, regional, and state STEM resources, we sometimes come across other helpful resources, such as [this one](#) posted by the Kansas City STEM Learning Community, that serve to expand one's horizons and perspectives.



See How Data Powers Space Exploration

Data literacy is a critical 21st century skill that students need for the jobs of tomorrow. Microsoft's partnership with **NASA** provides [numerous opportunities and resources](#) for students to explore how data powers our astronauts, our space missions, and our world.



Illinois Green Alliance Now Accepting Application for 2021 Green Ribbon Schools

The program recognizes schools that have active programs, actions, and dedication to promote and educate about sustainability. [Applications for the 2021 Green Ribbon Schools Program](#) are now open, with submissions due Feb. 8, 2021.



Still Looking for Halloween or Fall STEM Activities?



15 Spooky STEM Challenges for Halloween

A [curated list](#) of Halloween-themed STEM activities provides ideas on how to incorporate the holiday into the curriculum whether remote or in-person. If your school doesn't observe Halloween, many of the activities can be adjusted for more of a fall theme.

STEM Activities for Kids

Halloween and fall can be great times to engage students in fun [STEM activities](#). Bridges, spider webs, and bats, oh my! These are just a few of the topics you will find here, most of which use materials that are readily available.

Halloween STEM Activities from Science Buddies

From icky slime to candy coatings, fake blood, wearable LEDs, and things that foam or glow in the dark, [here](#) are several activity suggestions for Halloween-themed STEM. Several can be modified to take on a fall theme.

STEAM Powered Family Activities

[Activities](#) to get the whole family involved, ranging from candy science to electricity to chemistry and more. Again, many of the activities can be slightly adjusted to be more fall-themed.

Celebrate the Spooky Season

Use these activities to get kids involved in some interesting learning experiences, such as assembling a geometric bat and making a ghost dance. Various grade level activities are included [here](#).

Left Brain, Craft Brain

[More activities](#) for various grade levels, including ice cream labs and brush bots.

Pumpkin Pranks

The pumpkin theme will last through the end of November or later. Take a look at some of [these](#) to see if they will work for you and your students. Of course, minor changes can make the activities more or less challenging.

Hour of Code

Coding is not bound by seasons and it is not too early to plan your Hour of Code [activities](#) during the week of December 7-13.