

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



### What Would You Tell a High Schooler Seeking Career Advice About a STEM-related Field?

The advice differs depending on the age group represented. [Read more.](#)

### A Teacher's Tips on How to Get Kids Excited About STEM

Emerging diseases, energy sustainability and severe weather are just some of the global issues today's students will be asked to solve using the skills they learn. Continue reading [here](#).

### Belief in Success Predicts How Kids Do in Math and Reading

When kids believe they can achieve success in math and reading, they are more likely to achieve high test scores in those subjects, [new research](#) suggests.

### US Dept. of Education to Direct \$200 million to Science and Technology Education Grants

President Trump highlighted science and technology education this week with an announcement calling on the US Department of Education to direct [\\$200 million to competitive grants](#) for such programs. Officials say Congress has appropriated money for the grants.

### NGSS Parent Guides Available in Spanish

Building on the success of the NGSS Parent Guides, new [versions are now also available in Spanish](#). The guides illustrate how the standards help students build a cohesive understanding of science over time.

### Apply Now for the Northrop Grumman Foundation Teachers Academy

[Applications](#) are now being accepted for this middle school teacher program designed to enhance confidence and classroom excellence in STEM and to build teacher understanding of the skills needed for a scientifically literate workforce. This year the Academy will support up to 27 teachers in select [Northrop Grumman communities](#). Learn [more](#).



## Upcoming Events and Opportunities

### ISTA Fall Conference – October 27-28, 2017

Final days to register are quickly approaching. Engage in numerous science and STEM breakout sessions and workshops, with one- or two-day options and group discounts available. Participate in the Flea Market and win door prizes. [Click here for information.](#)

### STEM: Putting the Pieces Together (ROE Workshop) – November 8, 2017

Participants will engage in hands-on activities with electricity, earthquake simulation, and simple machines. Time will be provided to use the materials, plan lessons and integrate NGSS. Completion of this workshop allows participants to check out classroom sets of the workshop materials. [Register.](#)

### Girls Who Code Webinar – Fall 2017

Girls Who Code is the national non-profit that works to inspire, educate and equip girls with the skills to pursue 21st century opportunities. Learn more about FREE Summer & after-school programs at by attending a Launch Girls Who Code Clubs in Your Community Webinar. [Register](#) to receive connection details.

## Resources

### Learn Science with Crack the Circuit and Other Physics Games

[Lab Out Loud](#) shares Matt Blackman's physics games and apps. Matt founded [The Universe & More](#) where he creates educational games and apps such as [Crack the Circuit](#) and [Action Graphing](#). This webcast focuses on games and apps that supplement and enhance (but not replace) good teaching.

### How Can Students Make Up Missed Lab Work?

Missing lab work can affect students' learning. Making up the work poses a real challenge. Here are [some thoughts](#).

### NGSS Assessment – Next Gen Navigator e-Newsletter

This is the [second](#) of a two-part series looking at assessment, from the perspective of a principal, state science consultant and chief state school officer. The [August](#) edition looks at assessing three-dimensional learning in the classroom. Don't get it? [Sign up.](#)

### And, More About Next Generation Science Assessment

This effort is a collaboration among the University of Illinois at Chicago, Michigan State University, SRI International, and Concord Consortium, funded by the NSF and Moore Foundation. The group is developing formative, classroom, technology-enhanced assessments for middle school physical and life science. [Click here](#) for more information.

### 2018 EngineerGirl Writing Contest

Students in grades 3-12 (boys and girls) are invited to write a plea to their community to improve its infrastructure. [Read more.](#)

### Angela Awards for Middle School Girls

This award honors one female student in grades 5-8 with a strong connection to science. Nominees must be a resident of the United States, US Territories or Canada and enrolled full time in public, private or home school. [Apply here.](#)

### Illinois Council of Teachers of Mathematics Resources

The ICTM website offers numerous resources including publications, curriculum materials, and interactive resources. And, these are available to the public thanks to the commitment and dedication of members. Check out the [resources](#).

### Designing a Sustained Neighborhood

What contributes to a successful, interdisciplinary, project-based energy and engineering unit in the seventh-grade classroom? Find out in [this article](#) from the September Science Scope issue.

### Illinois Computing Educators (ICE) Offers Mini-grants

ICE is awarding members mini-grants up to \$1000. Each application must be for one project or activity. The project must meet ICE guidelines and demonstrate innovation and the benefit to students. [Click here](#) for more information and to apply.