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American Society of Engineering Education Research on the Role of Failure

Failure and learning from it is integral to engineering design but not always welcomed in the classroom. Engineering authorities share how elementary teachers can change their perspective to support inquiry and learning. [Learn More](#)



Interactive Technology Can Boost Learning

Students are 3.4 times more likely to succeed in classes where technologies that support group learning and collaboration are used, according to a [study from SMART Technologies](#). Such interactive technologies, the researchers found, can contribute to improved social and emotional development and student confidence.

Girl Scouts Add 23 STEM Badges

The Girl Scouts want to see more women in STEM careers. The organization recently announced it is adding 23 new STEM badges created with the help of organizations like Code.org, SciStarter, GoldieBlox, and the Society of Women Engineers. Continue reading [here](#).



Upcoming Events and Opportunities

Toying with STEM – September 13, 2017

Join other DuPage educators to gain insights about how toys relate to and enhance STEM learning. Note: This is a repeat of the session held in Fall 2016. Register before the session closes - [click here](#).

ExSTEMaganza – October 13, 2017 – 5:00 to 9:00 p.m.

Students participants in grades 5-8 and their parents or other accompanying adult will learn about the engineering design while working in teams to build a large-scale Rube Goldberg-contraption. This event will take place at Hinsdale South High School in Darien and is the result of a partnership event with the DuPage ROE, Indian Prairie Library and Gower District 62. Click here for an [application](#).

STEMfest – October 21, 2017 – 10:00 a.m. to 5:00 p.m.

Celebrate science, technology, engineering and math at NIU's [STEMfest](#). FREE admission and interactive STEM activities for curious minds of all ages. NIU Convocation Center, 1525 W. Lincoln Highway, DeKalb, IL 60115. NIU is also looking for [teacher volunteers](#).

ISTA Fall Conference – October 27-28, 2017

Learn from and with other science educators in over 125 sessions and hear leading conservationist and panda researcher, Dr. Sarah Bexell. [Register now](#) for a great fall conference.

Resources

Science Talk Playlist

This playlist will support teachers as they incorporate more science talk in their classrooms to engage students in discourse, scientific phenomena, science and engineering practices. <http://stemteachingtools.org/pd/playlist-talk>

Girls Who Code Books

Girls Who Code teamed up with Penguin books to release a series of [fiction and non-fiction books](#) for girls about computer science and coding.

Illinois Classrooms in Action

Numerous resources related to learning standards are available online. Newsletters, online courses, professional development and access to content area specialists are just a sampling of what you find. <http://www.ilclassroomsinaction.org/>

How NGSS and CCSS for ELA/Literacy Address Argument

Argument is a disciplinary practice that is consistently present across ELA, literacy, math and science learning standards. Is there a common understanding among educators? Okhee Lee sheds light in this new [NSTA blog post](#).

Purchasing the Safest Lab Chemicals

Prior to the new school year, most science teachers select and order their lab chemicals. Before placing an order, however, teachers should consider the health risks associated with using hazardous chemicals in the classroom laboratory. [Read more](#).