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Keep STEM Learning Fresh

Sustaining an interest in STEM is as important as sparking an interest in STEM. [Here](#) are a few key elements that help keep STEM learning fresh for the students and teachers.

Nurturing Diversity in STEAM

Nurturing diverse voices and participation in STEAM means applying a few different approaches. Here are [some ideas](#) that have worked for one educator.

Integrating Argumentation from Evidence Practice into Engineering Design Projects

Consider these [strategies](#) to more effectively connect argumentation from evidence to the engineering design process.

STEM Mindset: Supporting Girls' Ongoing Engagement and Success in STEM

Supporting the development of a [STEM mindset](#) is increasingly important in developing our future citizenry and work forces, especially among underrepresented groups, including girls.



Upcoming Events and Opportunities

U.S. 5-Year STEM Strategic Plan Presentation and Illinois PAEMST - February 4 or 8, 2020

Curious about the U.S. 5-year STEM Strategic Plan? Or, perhaps you are interested in applying or recommending someone for the Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST), which will honor K-6 and 7-12 teachers. Come to the Crouse Education Center (CEC) - Room B6 on Feb. 4, 2020 (3:30 pm - 5:00 pm) or Feb. 18, 2020 (4:30 pm - 6:00 pm) to learn more. Light refreshments will be served. [Reserve your spot by January 21.](#)

Small Group Math Instruction for Grade 6-8 Teachers - January 23, 2020

[Register](#) for the #ILMathCom session to examine the use of small group instruction, a form of differentiation where teachers use formative assessment data to inform the grouping of students.

Dolphin Training Institute Associate Degree Program

Considering a career in dolphin training? Wondering what the training experience is like? [Learn more](#) about this intensive learning opportunity. Applications are due February 28, 2020.

Toshiba/NSTA ExploraVision STEM Competition - Applications Due February 10, 2020

This [competition](#) for K-12 students is designed to inspire students to envision what technology might look like in the future, while researching science in an engaging, hands-on way.

Resources

Educators: Find Resources through DiscoverE

DiscoverE is the organization behind Engineers Week, Introduce a Girl to Engineering Day, World Engineering Day, and the Future City Competition. The [DiscoverE website](#) has a wealth of materials for teaching students about engineering.

A Smart School Building - Project Idea for Grades 6-12

This [lesson](#) explores the practical, scientific, ethical, and environmental issues that emerge in creating "smart" buildings.

Engineering Career Resources and More

The [website](#), developed through a NSF and NBC partnership, offers short videos on various engineering fields. Also, view the links to [STEM related features](#) such as the science of sports, chemistry in everyday life, nanotechnology, and many more.

Reducing Waste

Use the [Your Plan, Your Planet](#) Google Tool to explore ways in which we can improve our impact on the environment.

Pi Day Activity

Looking for a Pi Day lesson that involves middle grade students in a hands-on activity? The STEM Team has assembled a lesson and classroom materials for the first 10 teachers to email Mary Biniewicz at mbiniewicz@dupageroe.org.