

News You Can Use . . .

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



Bedtime problems boost kids' math performance

Puzzling through a word problem even once a week produces sizable gains. <http://news.sciencemag.org/brain-behavior/2015/10/bedtime-problems-boost-kids-math-performance?>

Should We Teach Science like Sports?

Scientific American published a recent article equating the process of engaging in the performance expectations of the NGSS to that of engaging in the performance of sports skill. <http://www.scientificamerican.com/article/schools-should-teach-science-like-sports/>

3 Key Ingredients for Successful STEM Implementation: Trust, Collaboration, and Innovative Thinking

STEM focuses on seamless integration of science, technology, engineering, and mathematics. Such integration works well when teachers have initial training, time to plan collaboratively, and a common belief about how students learn best.

<http://nstacommunities.org/blog/2015/10/04/3-key-ingredients-for-successful-stem-implementation-trust-collaboration-and-innovative-thinking/>

Upcoming Events and Opportunities

Physics Slam IV - November 20, 2015

Multiple physicists compete for audience approval, each sharing their respective work at Fermi Lab. For more information: www.fnal.gov or call 630.840.2787.

7th and 8th Grade Daughters and Parents Event - December 4, 2015

Registration information was mailed to DuPage elementary and middle school principals. Registration is accepted only through schools. For more information, contact your principal or Mary Biniewicz, mbiniewicz@dupageroe.org.

Hour of Code - December 7-13, 2015

The Hour of Code is a global movement reaching millions of students across the world. Organize an event. Access tutorials. <https://code.org/>

NGSS for ALL Students - February 24, 2016

Participants will explore research-based strategies to engage students in three-dimensional learning. To learn more and to register: <https://www.dupage.k12.il.us/register/course.php?recid=6403>

Resources

Engineering Resources from The Science Teacher

The October issue of *The Science Teacher* shows how case studies from the history of science help develop students' understanding of science. Read more at: http://www.nsta.org/publications/browse_journals.aspx?action=issue&id=102514

The Ultimate STEM Guide

Link to websites designed to engage students in STEM activities. <http://www.mastersindatascience.org/blog/the-ultimate-stem-guide-for-kids-239-cool-sites-about-science-technology-engineering-and-math/>

Volcanoes in the STEM Classroom

Use the study of volcanoes to integrate STEM lessons. Designed for grades 3-5, it could be adapted for middle or high school students. <http://nstacommunities.org/blog/2015/10/05/the-stem-in-volcanoes/>

Enter Now for a Chance to Win the 2015-2016 Shell Science Lab Challenge

The Challenge offers a chance to win a middle or high school science lab makeover. The deadline is **December 16, 2015**. Visit the [NSTA website](#) for more information about the Challenge or to download an application.

STEM Grants

The website features new, updates and a free downloadable guide to STEM K-12 educational grants, educational non-profits, and universities. <http://stemgrants.com/>