

January 2016

# News You Can Use...



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



Galileo's book  
(Minerva's Dintin/AFP/Getty Images)

## What students can learn through integrated STEM literacy

Roger Essley, an illustrator and author, describes the need for integrated STEM literacy and highlights examples of using storyboards and illustrations to help students develop their visual- and text-based information skills. <http://www.middleweb.com/26572/stem-visual-learning-a-vital-combination/>

## After-school programs ignite girls' passion for STEM

Programs that strive to engage girls in science, technology, engineering and math are increasingly relying on research-based methods to spark early interest, researchers and practitioners said in this article. Some programs emphasize real-world relevance, mentoring and hands-on learning. <http://youthtoday.org/2015/12/unlocking-the-code/>

## House-building project teaches students real-world math

Fifth-grade students at a Kentucky elementary school applied math concepts while constructing a one-room, wood-frame house in the gym as part of a nationwide program called "If I Had a Hammer." <http://www.kentucky.com/news/local/education/article47564055.html>

## Upcoming Events and Opportunities

### 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>

### Reading to learn in science

Enroll in this free course from Stanford University designed to provide knowledge and strategies to help you help students comprehend the language of science texts. Runs from January 13 to April 13, 2016. Learn more: <https://novoed.com/science-mooc>.

### Building quality three-dimensional classroom assessments in K-12 science - February 13, 2016, Bloomington Jr. High School

Learn to work with the Three-Dimensional Science Assessment and the Illinois State Board of Education Quality Classroom Assessment training materials to develop quality science assessments. For more information and to register: <https://www.eventbrite.com/e/building-quality-three-dimensional-classroom-assessments-in-k-12-science-bloomington-normal-tickets-19680079648?aff=ebrowse>

### The DuPont challenge science essay competition

For students enrolled in grades 6 - 12, to help increase science literacy among students and motivate them to excel in communicating ideas in STEM. Deadline for entry is January 31, 2016. For more information, go to <http://thechallenge.dupont.com/essay/teachers/>.

### Become a PBS learning media digital innovator

Participate in a robust professional learning community. Foster new ways of thinking and lead the way with technology to drive student achievement. Apply by February 8, 2016. For more information and to apply: <http://www.pbslearningmedia.org/digitalinnovators>.

## Resources

### STEM teaching tools

Launch STEM investigations that build on student and community interests and expertise. <http://stemteachingtools.org/brief/31>

### 9 things you need to know about NGSS this month

Subscribe to this monthly newsletter dedicated to NGSS topics. <http://campaign.r20.constantcontact.com/render?ca=73941342-100f-40f7-b7f6-55b46310fdc0&c=a10a7b50-92ed-11e3-950e-d4ae529cde13&ch=a19d4570-92ed-11e3-959c-d4ae529cde13>

### What's new in STEM education? NSTA asks experts.

In a brief video filed at the NSTA conference last year, experts were asked, "What do you think are the exciting new developments in STEM?" [Watch the video](#), and see if you agree with the answers.

### Science snacks

Hungry for exciting activities based in mind-blowing scientific phenomena? Try bite-sized versions of Exploratorium exhibits and other investigations that you can build at home or in your classroom using inexpensive, readily available materials.

<http://www.exploratorium.edu/snacks>

This newsletter is published with the support of the DuPage Regional Office of Education  
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