



Top Ten STEM Resources: Webinar Supplement

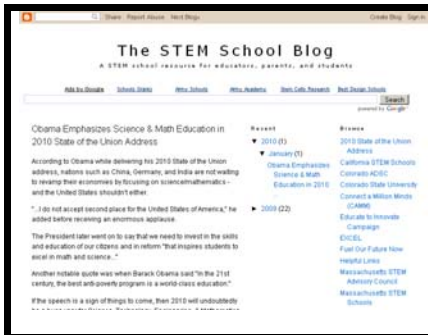
Here's a list of the top ten STEM resources to help you get started incorporating STEM concepts and lessons in your classroom.

Help us get to **twenty** resources by uploading your favorite sites to the **Siemens STEM Academy site** (<http://siemensstemacademy.com/index.cfm?event=showResourceLanding&c=37#>) or by emailing them to siemens_stem_academy@discovery.com.

Comment [KJ01]: Hyperlink?

Comment [KJ02]: I put this in because of your email, is this correct?

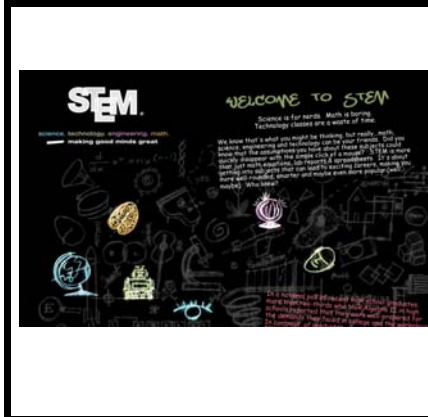
	<p>Siemens STEM Academy http://stem.discoveryeducation.com/ Powered by Discovery Education and Siemens Foundation, Siemens STEM Academy is a premier online community designed exclusively to foster achievement in STEM education.</p> <p>Key Features:</p> <ul style="list-style-type: none"> • Webinars: Monthly webinar series by STEM leaders for educators to learn about STEM issues and how to incorporate STEM into their lesson • Resources: User-generated list of online STEM resources • Blog: Blogs published by leaders in education • Institute: Information on the Siemens STEM Institute, a weeklong immersion program on the integration of STEM and the classroom • STARs: Siemens Teachers as Researchers, a residential professional development program
	<p>National Science Foundation Resources for STEM Education http://www.nsfresources.org/home.cfm Supported by educational research and development projects funded by NSF, this site provides links to external resources providing information on STEM Education.</p> <p>Key Features:</p> <ul style="list-style-type: none"> • Teacher Development: Principles, materials, and practitioner insights that are helpful guides to improved preparation and professional development of STEM teachers • Instructional Materials: Links to materials for classroom use in teaching STEM • Assessment: Tools to help assess STEM education initiatives • Research Synthesis: Compilation of STEM education research findings



The STEM School Blog

<http://www.stemschool.com/>

The STEM School Blog is searchable aggregator site intended for educators, parents, and students containing blog articles on a variety of STEM-related topics.



The Minnesota STEM Initiative

<http://www.mn-stem.com/>

Sponsored by the Minnesota High Tech Association, the Minnesota Chamber of Commerce and the Minnesota Department of Education, this fun and engaging site encourages students to explore STEM topics

Key Features:

- Featured Careers: Kid-friendly profiles of careers in fields related to STEM
- Resources & Links: Links to online resources for STEM education
- STEM Toolkit: STEM-themed screensaver, wallpaper, AIM icons, study guides, and posters
- "Oracle Orb": Interactive fortune teller offering STEM-centered answers



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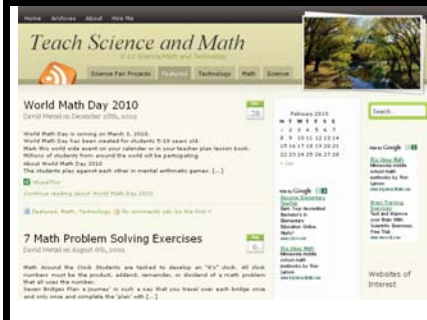
Pennsylvania STEM Initiative

<http://www.pasteminitiative.org/>

An informative site on the PA STEM Initiative, a statewide effort designed to create the foundation for the state's future competitiveness by establishing a network of partners and programs that support the development and deployment of science, technology, engineering and mathematics education and workforce development.

Key Features:

- Programs: Identifies external programs that may provide funding for regional activities, opportunities for schools and students or opportunities to share best practices
- Resources: Program Directory, Multimedia Tools, Document Center, etc.
- Current Developments: News room STEM in the press and an event calendar



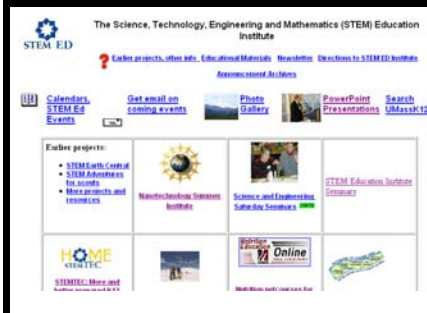
Teach Science and Math

<http://www.teachscienceandmath.com/>

Teach Science and Math is the blog site of David R. Wetzel, Ph.D., that stressed the importance of teaching STEM subjects and provides resources for integrating STEM into your classroom.

Key Features:

- Science Fair Projects: Collection of blogs on science fair projects
- Blogs categorized by Technology, Math, Science, and Featured



The STEM Education Institute

<http://umassk12.net/stem/>

Part of the University of Massachusetts, the STEM Education Institute site offers various resources on STEM initiatives.

Key Features:

- STEMTEC: STEM Teacher Education Collaborative, a collaborative site of resources for STEM teachers
- Photo Gallery
- PowerPoint Presentations: Links to presentations for students; teachers; and college faculty, administrators, and policy makers



Engineering is Elementary

EE Educator Resources Workshops EIE Store

Home About EIE EIE Curriculum EIE Educator Resources EIE in the News Research & Assessment Professional Development Ignorance Contact Us FAQs EIE Store Site Map

EiE: Engineering & Technology Lessons for Children!

The *Engineering is Elementary* (EiE) project aims to foster engineering and technological literacy among children. EiE is creating a research-based, standards-driven, and classroom-tested curriculum that integrates engineering and technology concepts and skills with elementary science topics. EiE resources not only provide K-5 science, technology, engineering, and mathematics (STEM) learning, but also connect with history and social studies.

Storybooks helping children from a variety of cultures and backgrounds introduce students to an engineering profession. Students are then challenged to solve a problem similar to that faced by the storybook character. Through a hands-on engineering design challenge, students work in teams to apply their knowledge of science and mathematics, use their inquiry and problem-solving skills, and tap their creativity as they design, create, and improve possible solutions. In the end, students realize that everyone can engineer!

The *Engineering is Elementary* project also helps elementary school education advance their understanding of engineering concepts and pedagogy through professional development workshops and resources.

National Engineering is Elementary usage*

Students	1,021,725
Teachers	15,000

Engineering is Elementary

<http://www.mos.org/eie/>

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Key Features:

- Curriculum: Units on subjects related to engineering with corresponding lesson plans and storybooks
- Storybooks: Stories tied to lesson plans, featuring characters from around the world who face engineering problems
- Educator Resources: Lesson plans, multimedia resources, supporting documents
- Professional Development: Workshops, teacher educator institutes, etc.

Discovery EDUCATION

Search & Browse Content Resources Lesson Resources Professional Development

STEM Connect
Science Technology Engineering Path

Engage Students with STEM Connect
(Free to Discovery Education subscribers)

STEM Connect is the captivating real-world STEM curriculum and career development resource from Discovery Education. It equips the education community with story student achievement in STEM education throughout all U.S. schools. Visit the [Discovery website on STEM Connect](http://www.discovery.com/STEM-Connect).

Access engaging resources for high school content science, technology, engineering, and mathematics in the real world. Make complex science fun and provide students a clear view for how growing their interests can lead to future careers.

Connect the two real-world science and math can be used through content like **MYTHBUSTERS**, **BUILD IT BIGGER**, and **DISCOVER** (hands-on activities, etc.) that all STEM concepts can be understood through the power of visualization tools at students' tables they can succeed in STEM-related careers.

CONTACT US AT 800.225.5336

Contact education@discovery.com or call 800.225.5336 to add this resource to your subscription.
Price: \$70 per building/year

the future
powered by DISCOVERY EDUCATION

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- Content from Discovery programs, such as Mythbusters and Build It Bigger



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Powered by Discovery Education and Siemens Foundation, Siemens STEM Academy is a premier online community designed exclusively to foster achievement in STEM education.

Key Features:

- Webinars: Monthly webinar series by STEM leaders for educators to learn about STEM issues and how to incorporate STEM into their lesson
- Resources: User-generated list of online STEM resources
- Blog: Blogs published by leaders in education
- Institute: Information on the Siemens STEM Institute, a weeklong immersion program on the integration of STEM and the classroom
- STARS: Siemens Teachers as Researchers, a residential professional development program



National Science Foundation Resources for STEM Education

<http://www.nsfresources.org/home.cfm>

Supported by educational research and development projects funded by NSF, this site provides links to external resources providing information on STEM Education.

Key Features:

- Teacher Development: Principles, materials, and practitioner insights that are helpful guides to improved preparation and professional development of STEM teachers
- Instructional Materials: Links to materials for classroom use in teaching STEM
- Assessment: Tools to help assess STEM education initiatives
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National Science Foundation
Resources for STEM Education

HOME | TOPICS | ABOUT PROTOTYPE | SEND FEEDBACK | SEARCH

K-12 Resources for Science, Technology, Engineering and Mathematics Education

Resources and findings generated through educational research and development projects funded in part by the National Science Foundation can help inform states and school systems that are developing strategies for improving K-12 STEM (science, technology, engineering and mathematics) education.

Topics

Teacher Development

Instructional Materials

Assessment

Research Syntheses

This site contains an initial sampling of resources and findings from NSF-funded projects. Their proposals underwent merit review; subsequent annual and final project reports were reviewed and approved. The resulting research-based resources have been pilot- or field-tested in schools or with teachers. The websites identified may offer additional information derived from their development and use with students, teachers, or other stakeholders. These resources

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Share Report Abuse Insert Blog Create Blog Sign In

The STEM School Blog
 A STEM school resource for educators, parents, and students

Ads by Google Schools Status My Schools My Academy Stem Cells Research Best Design Schools Search

powered by Google

Obama Emphasizes Science & Math Education in 2010 State of the Union Address

According to Obama while delivering his 2010 State of the Union address, nations such as China, Germany, and India are not waiting to revamp their economies by focusing on science/mathematics - and the United States shouldn't either.

"...I do not accept second place for the United States of America," he added before receiving an enormous applause.

The President later went on to say that we need to invest in the skills and education of our citizens and in reform "that inspires students to excel in math and science."

Another notable quote was when Barack Obama said "In the 21st century, the best anti-poverty program is a world-class education."

If the speech is a sign of things to come, then 2010 will undoubtedly

Recent

- ▼ 2010 (1)
 - ▼ January (1)
 - Obama Emphasizes Science & Math Education in 2010
- 2009 (22)

Browse

- 2010 State of the Union Address
- California STEM Schools
- Colorado ADOSC
- Colorado State University
- Connect a Million Minds (CMM)
- Educate to Innovate Campaign
- EXCEL
- Fuel Our Future Now
- Helpful Links
- Massachusetts STEM Advisory Council
- Massachusetts STEM Schools

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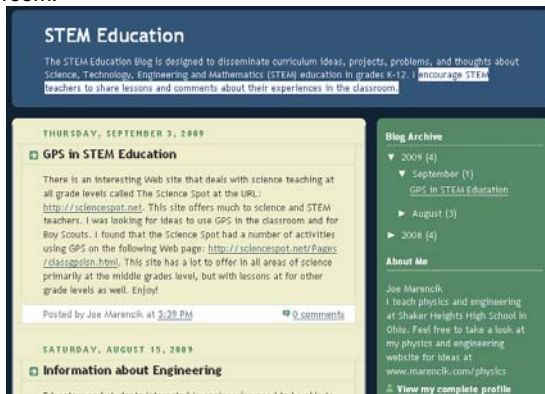
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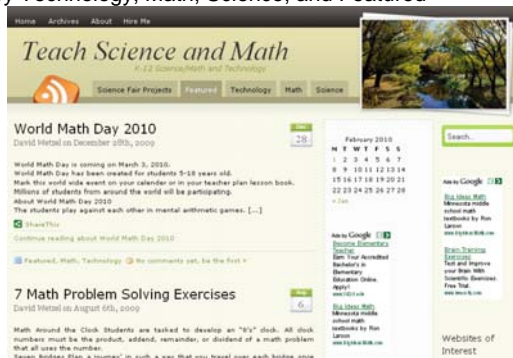
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The Science, Technology, Engineering and Mathematics (STEM) Education Institute
[Earlier projects, other info](#) [Educational Materials](#) [Newsletter](#) [Directions to STEM ED Institute](#)
[Assessment Archives](#)

 [Calendars, STEM Ed Events](#) [Get email on coming events](#) [Photo Gallery](#) [PowerPoint Presentations](#) [Search UMassK12](#)

Earlier projects: <ul style="list-style-type: none"> • STEM Earth Central • STEM Adventures for schools • Most projects and resources 	 Nanotechnology Summer Institute	 Science and Engineering Saturday Seminars	STEM Education Institute Resource
 STEM/ETC: Home and Professional Development	 Online	 Workshop	

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Engineering is Elementary

EiE Educator Resources Workshops EiE Store

Home About EiE EiE Curriculum Storybooks EiE Educator Resources EiE in the News Press releases & Assessment Professional Development Sponsors Contact Us FAQs EiE Store Site Map

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Multiple Engineering is Elementary Lessons!	
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Key Features:

- Content from Discovery programs, such as Mythbusters and Build It Bigger

The screenshot shows the STEM Connect website interface. At the top, there is a navigation bar with links for 'Products & Services', 'Customer Resources', 'Home Resources', 'Professional Development', and 'Store'. Below the navigation bar is a banner for 'STEM Connect' with the subtitle 'Science Technology Engineering Math'. The main content area features a section titled 'Engage Students with STEM Connect' with a sub-heading '(Free to Discovery Education Streaming Subscribers)'. The text describes the resource as a captivating real-world STEM curriculum and career development resource from Discovery Education. It lists key features: 'Access compelling resources that help students connect science, technology, engineering, and mathematics to the real world. Make concepts come alive and provide students a clear vision for how pursuing their interests can lead to future careers.', 'Discover how real-world science and math can be used through content like MYTHBUSTERS, BUILD IT BIGGER, and BUILDING SUSTAINABLE NETWORKS, INC.', and 'Make difficult concepts easy to understand through the power of visualization - only at students before they can succeed in STEM-related careers.' Below the text is a photo of a group of students sitting on a stage. At the bottom left, there is a 'CONTACT US' section with the email 'education@discovery.com' and phone number '800-522-9884'. At the bottom right, there is a 'the future' logo and the text 'Part of Discovery Education'.