

## Newsletter

### Special Interest Articles

- Time to Invent Club: Volunteers Needed
- Top Ten Twitter Hashtags for Educators

### Individual Highlights

- Science 360
- Everyday Mysteries Library of Congress
- Sponglab Interactive
- Math Pickle
- Problems with a Point
- Financial Education in the Math Classroom
- The Stockmarket Game
- TES Interactive Whiteboard Activities
- Vocabulary Spelling City
- Little Space Heroes
- Google Showing Some Love to Math Lovers
- YouTube for Schools
- DisaPainted
- ProProfs Brain Games
- Professional Opportunities
- What PRISM Can Do For You!

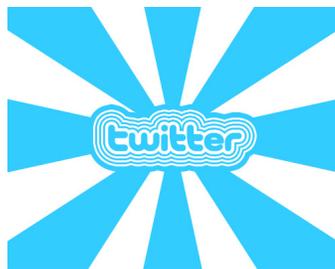
## Time to Invent Club: Volunteers Needed



Innovation and invention are cornerstones of American society, but not all young people have role models to open doors in science, technology, engineering and math (STEM). To help meet this need, WGBH (Boston's PBS station) and the Lemelson Foundation launched an exciting invention-based mentoring program called the Time to Invent Club in 2009. The program places STEM professionals and college students in afterschool sites once a week to co-lead an hour-long program.

Working with a group of fifth graders, the mentors use a stepped-out curriculum that inspires underserved youth to explore invention. We are currently looking for volunteers to serve as mentors or an 8-10 week program beginning in February 2012 at afterschool sites in Massachusetts, Oregon, and Indiana. For more information, visit [www.timetoinvent.org](http://www.timetoinvent.org). If interested, please contact Liza Goldstein: [liza\\_goldstein@wgbh.org](mailto:liza_goldstein@wgbh.org) or (617)-300-3642.

## Top Ten Twitter Hashtags for Educators



Hashtags (#) are basically keywords for a tweet. Depending on the content of your tweet, you can use different hashtags so other teachers looking for similar content can find your tweet. For example, if I just found a new online resource for teachers, I might tweet about it and add the #edtech hashtag on the end so other teachers looking for educational technology can see it.

Check out the recommendations from [blog.simplek12.com/education/top-ten-twitter-hashtags-for-educators/](http://blog.simplek12.com/education/top-ten-twitter-hashtags-for-educators/)

**#edchat** - This is hashtag that was created by Tom Whitby, Steven Anderson and Shelly Terrell for all educators to connect and share their ideas on.

**#mlearning** - This is a great hashtag to follow if you're looking to incorporate mobile devices into your classroom.

**#edtech** - Under this hashtag you can find anything that has to do with technology in education.

**#ipaded** - If you're an educator with an iPad or looking for a good reason to buy one...

**#education** - Here you can find information on anything and everything related to education- from standardized testing to new technology for teachers.

**#mathchat** - Not only can you always find a tricky math problem that needs solving on this stream, but you can also connect with all types of math teachers who you can collaborate and share ideas with.

**#scichat** - If you're a science teacher you must check out #scichat.

**#engchat** - engchat takes place every Monday from 7-8:00 pm EST. Each week they cover a different topic that they highlight on their website.

**#sped** - Technology is revolutionizing special education.

**#kinderchat #1stchat #2ndchat #3rdchat #4thchat #5thchat #6thchat** - grade specific content and lessons for your elementary students.



[science360.gov/files/](http://science360.gov/files/)

## Science 360

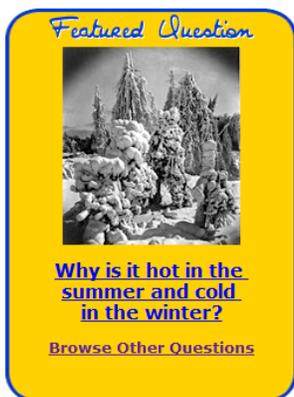
Science360 Knowledge Network immerses visitors in the latest wonders of science, engineering, technology and math. We gather the latest science videos provided by scientists, colleges and universities, science and engineering centers, the National Science Foundation and more.

Each video is embeddable to put on your own personal websites, blogs and social networking pages.

Science360 engages the general public, science junkies and students alike in the cutting-edge discoveries and big science stories of the day.

Sponsored by the National Science Foundation, Science360 is an up-to-date view of breaking science from around the world.

Twitter @science360



[www.loc.gov/rr/scitech/mysteries/](http://www.loc.gov/rr/scitech/mysteries/)

## Everyday Mysteries - Library of Congress

Did you ever wonder why a camel has a hump? If you can really tell the weather by listening to the chirp of a cricket? Or why our joints make popping sounds?

These questions deal with everyday phenomena that we often take for granted, but each can be explained

scientifically.

Everyday Mysteries will help you get the answers to these and many other of life's most interesting questions through scientific inquiry. In addition, we will introduce you to the Library of Congress' rich collections in science and technology.

All of the questions presented on this Web site were asked by researchers and answered by librarians from the Library's Science Reference Services.

Select from a variety of science topics. This site is fun and informative.



[www.spongelab.com/slxdev/](http://www.spongelab.com/slxdev/)

## Spongelab Interactive

Founded in 2007, Spongelab Interactive is a leader in advancing the integration of cutting edge technologies for teaching and learning purposes.

Their mission is to educate students in the sciences by building content-rich immersive teaching tools designed around discovery-based learning that are accessible to educators and learners at school, at home and in the general public. Spongelab Interactive builds their own products and offers custom production services for the

global education community. Their unique approach around integrating educational design with advance web & gaming technology is planting the seeds for continued innovation of advanced communication and education products. Spongelab is based in Toronto, Ontario, Canada.

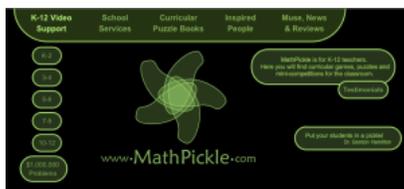
### OUR MISSION

We strive to inspire a generation of learners passionate about the world around them! In our immersive learning ap-

proach, we employ unique educational strategies, using 3D environments and game-based learning, integrated with intelligent feedback, and asset-integrated assessment.

Our expertise in scientific content and educational methods, provides exclusive consulting, design, and production services for all learning communities.

Follow on twitter @Spongelab



[www.mathpickle.com](http://www.mathpickle.com)

## Math Pickle

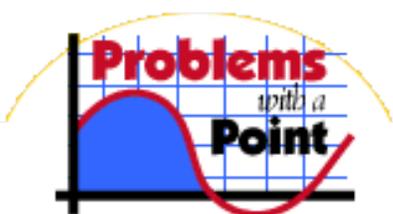
I'm Dr. Gordon Hamilton. I'm a mathematician who found a passion for K-12 mathematics classrooms. There is nothing I enjoy more than visiting classes, talking to teachers, stumping students and having them stump me.

I've spent three years full time as the resident mathematician in a private school in Calgary, Alberta, Canada which is where I learned about the greatest problem that teachers face:

"How to deal with the spectrum of student ability?"

This site and all of my professional development workshops aim to help teachers solve this problem.

As well as a mathematician and educator I am also a board game designer and founding member of the Game Artisans of Canada. I design many games for K-12 mathematics classrooms so these two worlds overlap.



[www2.edc.org/mathproblems/default.asp](http://www2.edc.org/mathproblems/default.asp)

## Problems with a Point

Combine understanding with skill! Problems "with a Point" help students in grades 6-12 learn new mathematical ideas by building on old ones.

Each problem or sequence focuses on one mathematical idea and also connects that idea with others. Varying in dif-

ficulty and approaches, these problems are useful for teachers, students, parents, math clubs, and home-schoolers. Problems are classified by topic, time required, suggested technology, required mathematical background, and habits of mind that students develop or use as they work.

Synopses of the problems are keyword searchable. Answers and solutions are provided, and many problems include hints.

Problems With A Point has been selected by the NCTM as an exemplary Web site.



[mathforum.org/fe/](http://mathforum.org/fe/)

## Financial Education in the Math Classroom

The Math Forum was awarded a generous grant from the FINRA foundation to support the work of connecting math teachers to each other and to useful resources to include financial content in their math classrooms. This website is the result of prior and ongoing conversations with teachers, financial educators and Math Forum staff.

Follow on Twitter @themathforum

## The Stockmarket Game

Now more than ever, schools are looking for ways to meet higher education standards while working within tighter budgets. To meet this challenge, schools are seeking more effective educational tools that both motivate students and support teachers in building lifelong learning skills.

One tool that meets these requirements in an innovative yet time tested way is The Stock Market Game™ program. Since 1977, the program has given educators a way to improve the learning experience in thousands of classrooms. Teachers have successfully used The Stock Market Game™ program to enliven core academic subjects — including Math, Social Studies, and Language Arts — and research has shown there's no better way to learn the importance of saving and investing.



[www.stockmarketgame.org](http://www.stockmarketgame.org)



[www.iboard.co.uk/curriculum.htm](http://www.iboard.co.uk/curriculum.htm)

## TES Interactive Whiteboard Activities

Welcome to the TESiBoard collection, a purpose built library of visual, dynamic, interactive resources.

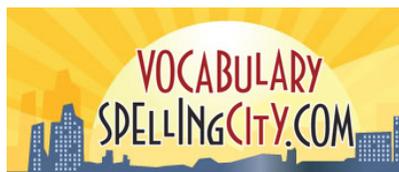
TESiBoard resources are primarily open-ended tools that enable teachers to engage their pupils in a learning dialogue around the resource.

The resources are designed for use by the teacher on their interactive whiteboard but many are also suitable for pupil use, usually responding to a task or challenge set by the teacher.

The TESiBoard materials were acquired by TSL Education Limited at the end of November 2009 and as a result of TSL's current and planned future investment, all these popular resources are available for free.

Steven Rawlins continues to work for TSL Education Limited. Current development is focused on KS2 Literacy and Numeracy materials.

Twitter @TESconnect



[www.spellingcity.com/](http://www.spellingcity.com/)

## Vocabulary Spelling City

VocabularySpellingCity.com is dedicated to helping students, teachers, parent-teachers, and school systems. VocabularySpellingCity is an award-winning site with ongoing introduction of new features, many based on input from existing users.

The site was launched on the web as SpellingCity in 2008 and has grown primarily through word of mouth. During the 2008-2009 school year, the site was used by over a half-

million people in the peak months. In 2009-2010, SpellingCity was used by over a million unique visitors a month. The site's services have been steadily expanded over the years. SpellingCity became VocabularySpellingCity in January 2011 to reflect the addition of significant vocabulary capabilities. During the 2010-11 school year, the site attracted nearly two million unique visitors per month - over four million visits total, and over 40 million page

views monthly. (source Quantcast.com). This level of traffic and usage gives VocabularySpellingCity a ranking as a top 1000 site in the U.S. during its peak months. VocabularySpellingCity is supported by revenues from Premium Memberships (which are priced low for maximum accessibility) and advertising displayed to non-Premium Members. VocabularySpellingCity prides itself as being amongst the best values in education. Twitter @SpellingCity

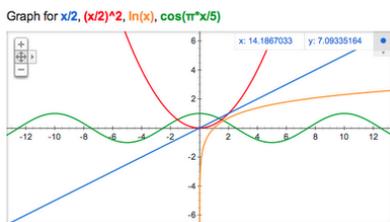


[www.bubbleguminteractive.com/games/](http://www.bubbleguminteractive.com/games/)

## Little Space Heroes

Little Space Heroes is a Virtual Universe for kids and families. It's an interactive, online multiplayer game in which kids create their own hero and explore a galaxy full of fun and adventure!

Rated E for Everyone and awarded the Family Friendly Videogames Seal of Approval, Little Space Heroes is a story-driven online social game that allows players to create their own Space Hero and embark on an intergalactic adventure. Featuring character personalization, solo and team gameplay, pets, quests and community activities, Little Space Heroes offers an age-appropriate and safe environment for kids to explore, make new friends and have fun online. All that is required to play is a computer connected to the internet. Twitter @BGISudio



[insidesearch.blogspot.com/2011/12/showing-some-love-to-math-lovers.html](http://insidesearch.blogspot.com/2011/12/showing-some-love-to-math-lovers.html)

## Google Showing Some Love to Math Lovers

I still recall the day when my friend Yossi came to school and showed off his brand new graphing calculator. I was stunned by how easy it was to plot complicated functions -- meanwhile, the rest of us were still drawing them by hand on graph paper.

Today, I'm hoping to share that magical feeling with students around the world, with the introduction of graphing functionality on Google. Now you can plot mathematical functions right on the search result page. Just type in a function and you'll see an interactive graph on the top of the search results page.

You can zoom in and out and pan across the plane to explore the function in more detail. You can also draw multiple functions by separating them with commas. This feature covers an extensive range of single variable functions including trigonometric, exponential, logarithmic and their compositions, and is available in modern browsers.

I hope students and math lovers around the world find this experience as magical as I found the graphing calculator so long ago.

Posted by Adi Avidor, Google Engineer and Math Lover.



[www.readwriteweb.com/archives/youtube\\_for\\_schools\\_all\\_the\\_ted\\_talks\\_none\\_of\\_the.php](http://www.readwriteweb.com/archives/youtube_for_schools_all_the_ted_talks_none_of_the.php)

## YouTube for Schools

YouTube has launched a new initiative called YouTube for Schools, which will enable educators to open up classrooms to the wide world of educational content on YouTube without all the junk. Open Internet access in schools is tricky, with all the dis-

tractions and time-wasters out there, so Google is taking this step to make educators' lives easier.

Network administrators can turn on YouTube for Schools to give school computers access to the vast library of YouTube

EDU content from partners such as the Smithsonian and TED. The content is organized into topical and grade-level playlists.

You can view the lists at [youtube.com/teachers](http://youtube.com/teachers).



[disapainted.com/](http://disapainted.com/)

## DisaPainted

DisaPainted.com is Web 2.0 based website for creating, sharing, watching hand-drawn frame-by-frame animations using modern HTML5 techniques for the fastest and the most enjoying drawing for you. ;)



[www.proprofs.com/games/](http://www.proprofs.com/games/)

## ProProfs Brain Games

ProProfs Launches Brain Games: Create and Share Your Own Games or Play over 4,000 Free Educational Games.

Good teachers have always known that puzzle games are some of the best ways to get old and young alike well on their way towards mastering a subject area. ProProfs is dedicated to the mission of combining education and entertainment, providing free online puzzles, brain games, and other fun resources to get people actively involved in the learning process.

## Professional Opportunities

**The NEA Foundation – Nickelodeon Big Help Grants** are available in the form of Student Achievement grants to K-8 public school educators. The Big Help Grants program is dedicated to the development and implementation of ideas, techniques, and approaches for addressing four key concerns – environmental awareness, health and wellness, students' right to a quality public education, and active community involvement.

[www.neafoundation.org/pages/educators/grant-programs/nea-foundation-green-grants](http://www.neafoundation.org/pages/educators/grant-programs/nea-foundation-green-grants)

**Captain Planet Foundation** - Grants are made for activities that conform to the mission of the Captain Planet Foundation which is to: promote and support high-quality educational programs that enable children and youth to understand and appreciate our world through learning experiences that engage them in active, hands-on projects to improve the environment in their schools and communities.

[captainplanetfoundation.org/apply-for-grants/](http://captainplanetfoundation.org/apply-for-grants/)

**The Physics Education Group in the Physics Department at the University of Washington** offers an intensive five-week summer program in physics and physical science for inservice teachers. Directed by Dr. Lillian C. McDermott, Professor of Physics, the Summer Institute is supported by the National Science Foundation. The program is tuition-free and carries ten upper-division credits in physics. Teachers may participate for up to three years. Participants receive a stipend. Funds may be available to help defray lodging costs for out-of-area participants. Transportation, meals, and other incidentals are the responsibility of the participant.

[www.phys.washington.edu/groups/peg/si2012.html](http://www.phys.washington.edu/groups/peg/si2012.html)

**Invitational Summer Institute 2012** - Each summer, beginning in 1986, IWP invites teachers representing all levels of instruction, a wide range of students, and many curricular areas to the Ball State University campus for an intensive Summer Institute in the Teaching of Writing.

[iwp.iweb.bsu.edu/profdev/si.htm](http://iwp.iweb.bsu.edu/profdev/si.htm)

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## What PRISM Can Do For You!

- Easily find the perfect teaching and learning resources from our library of over 3,000.
- Save a list of your favorite resources for quick retrieval.
- Create and share lesson plans that teach your subjects utilizing your favorite resources.
- Develop online classrooms with interactive assignments, lessons, quizzes and more!
- Join discussions with students, parents, or other teachers inside chats and forums.
- Store your classroom materials online so that they are available to you from any computer.
- Reach your students more effectively by using web media for the digital age.
- Earn CRUs by completing PRISM led online Moodle course – either Beginning Moodle or Intermediate Moodle courses are available to you at no cost several times throughout the year.
- Select from free learning resources that emphasize visualization, rich context, staged-problem solving, and electronically enabled collaboration / communication.
- Augment your own dynamic presence in the classroom with teaching tools that mirror the skills needed for success in higher education and the 21st Century workplace.

*Through our strong support from the **Lilly Endowment** and others, we are constantly growing and improving. Check our site regularly to see what new resources you can use in your classroom.*

[www.rose-prism.org](http://www.rose-prism.org)



PRISM is a free website that provides collections of online resources for Indiana educators in the fields of science, technology, engineering, and mathematics (STEM). The primary collection of digital teaching materials is indexed according to the Indiana Academic Standards for 6th, 7th, and 8th grade and secondary education courses.