



September 2011

Welcome to the second issue of the 2011-2012 Mathematics Newsletter! This month we bring you a wide range of resources in a variety of formats – newspaper articles, movie clips, artistic graphs, interdisciplinary connection, website links, blogs, and even conference announcements. In addition, materials to support the inclusion of the Common Core State Standards are available for your use. There are also “calls for participants” for those of you interested in helping with our pending work in curriculum and technology development. Happy exploring ©

Ed Nolan

### Supporting the Standards for Mathematical Practice

Concerned that you may not have enough resources to successfully implement SMP in your building? [Missy Sigley](#), Math Content Specialist, recently created a professional development module featuring video and analysis. [This module](#) is designed for study as a group led by a school-based facilitator. Additional [training documents](#) are available to assist the facilitator. If you are unable to access these files, please speak to the RT, MCC, or SDT in your building.

INSIDE +=X÷  
MATHEMATICS

The videos for this module are from [Inside Mathematics](#), who recently made changes of their own to their video library. Users can now choose video clips by Standard. Please share these clips with your teachers as they find their sea legs in the new SMP water. Be a positive deviant!



### Multimedia Motivation

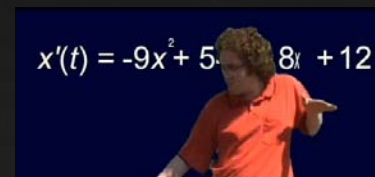
Last month, we shared an article with you about our students in the iGeneration. Part of their mentality is the ease of access to text, images, and video through a variety of devices.

Oliver Knill of Harvard has compiled [math scenes](#) from many popular movies and television series, including GI Joe, Harold and Kumar, Star Trek, Cast Away, and personal favorite The Office, among others.



If it's music you are interested in, Mathwire has compiled a list of [singable songs](#) for elementary students. For students in upper grades, you might enjoy this top ten of cleverly written math tunes from the blog [Division by Zero](#), including the Gloria Gaynor classic, [I Will Derive](#).

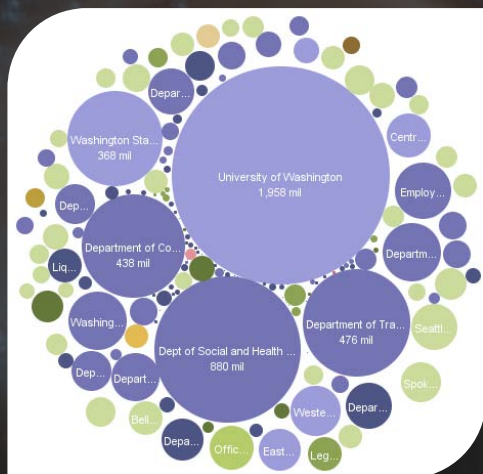
$$x'(t) = -9x^2 + 5 - 8x + 12$$



Happy clicking!

## Featured Web Resources

Looking for a novel way to display your data? Consider IBM's [Many Eyes](#) visualization application.



You can easily upload data sets and choose from a collection of dozens of representations. Best of all, data isn't limited to tables of values; text passages can be analyzed, as well!

If it's dynamic data presentation you want, explore [Gapminder labs'](#) collection of demographic data sets with your students. Go beyond the numbers for a socially-enriching 45 minutes.

## Sustained Silent Reading

Do you frequently wonder what to do with all of your free time? Now you can spend it catching up with the latest debates in education.

- What could happen in our technology-driven classrooms? Find out in this recent [NY Times](#) article.
- Is it possible to teach creativity? Andrea Kuszewski discusses this idea for [Scientific American](#).

## Blogs to Inspire

By now, many of you are quite familiar with Dan Meyer's [dy/dan blog](#). But there is more in the blogosphere than just Mr. Meyer!

Earlier in this newsletter, [Division by Zero](#) was mentioned. This blog includes serious discussions on mathematics and academics, as well as not-so-serious puzzles and hilarious web links.



[The Mathematical Tourist](#) and [10-Minute Math](#) both feature images bound to start a discussion, as well as their personal opinions regarding the state of mathematics education.

The [360 blog](#), featuring a plastic Godzilla figurine ridiculing math in the media, is sure to bring a smile to your students' faces.

### FOCUS GROUPS FORMING

- CLASSROOM TEACHERS ARE NEEDED TO REVIEW CASIO CALCULATORS FOR COMPATIBILITY WITH CURRENT AND FUTURE MATH CURRICULUM.
- CLASSROOM TEACHERS ARE NEEDED TO PROVIDE FEEDBACK FOR UPCOMING MATH 6, 7, 8, AND ALGEBRA 1 CCSS CURRICULUM DOCUMENTS

CONTACT [COLIN REINHARD](#) FOR MORE INFORMATION!

## The Latest from NCTM

[Do You Notice Sum-Thing?](#) Is the latest lesson from *Illuminations*. In this game, students explore a Hundreds Board for patterns. Teachers are free to provide feedback on the *Illuminations* Facebook page to win free manipulatives!

Registration is under way for the NCTM [National Conference in Philadelphia](#) April 25-28. Diane Ravitch and Edward Burger will be the keynotes, as well as a session strand on technology.

### DISCOURSE VIDEO PICK OF THE MONTH



WHAT DO YOU WONDER?

## Have a Question or an Idea To Share?

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or Contact us at 301-279-3161

## Cross-Curricular Connections

### Art

The American Mathematical Society's website features a [gallery of mathematical art](#). Links to additional museums and galleries can be found at the bottom of the page.

If you are interested in using images from well-known artists, just talk to the nearest art teacher! They can help you find 200 high-definition images in your school's T-Shared folder from such artists as Cassatt, Kahlo, and Picasso.

### Social Studies

Don't forget about Math Forum! The folks at Drexel have compiled an [extensive link library](#) for applications in the social sciences. Some highlights include

- [UN Data](#)
- [NationMaster](#) (contains private advertising)

### Science

Our friends in the Science, Technology, and Engineering Office have chipped in a few resources for STEM-centered classrooms.

- NASA's [PUMAS](#) site contains activities for all grade levels
- [Stagecourses](#) lists activities from a variety of private and governmental sources
- University of Maryland's [MathBench](#) features mathematical connections with biology topics.

## MCTM Annual Conference

The Maryland Council of Teachers of Mathematics (MCTM) will hold the [2011 Annual Mathematics Conference](#) at Reservoir High School in Fulton, MD on October 21, 2011. Katie England, Ed Nolan, Colin Reinhard, and Verna Washington from DCI will be presenting!

