

Newsletter

Special Interest Articles

- Moodle – PRISM hosting and upcoming classes
- PRISM resources for new Indiana Science Standards and Math Common Core Standards
- Facebook – more news and resources for teachers!

Individual Highlights

NCTM Conference
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Professional Development

Moodle News

PRISM offers the Moodle Learning Management System. Teachers can create an online classroom environment where they can store their course's digital material for student access as well as administer assignments and quizzes. **Basic Moodle for Teachers (BMT)** is a distance education course designed to provide teachers the basic skills necessary to use Moodle with their students. Teachers participating in this online course may complete the readings and assignments and work on their course(s) at their convenience. Online meetings for discussing the

topics covered will be held each week. During the online meetings, teachers are encouraged to use the class chat to ask questions and trade information, experiences, and expertise with others in the class. Between class sessions, communicating via the class forum will allow all class members to benefit from the interaction. **Intermediate Moodle for Teachers (IMT)** follows the same format and covers advanced quizzes, questionnaires, databases, lessons, wikis, RSS feeds, grade books and advanced roles.

Why Moodle? This platform provides tools for tracking student participation, homework/quizzes, and grades. In addition to these rather standard functions, the learning platform supports exciting new ways to engage students beyond traditional "talk and chalk" delivery methods. Moodle uses many elements of "social networking" to motivate young people and to incorporate 21st century technology literacy.

Classes are offered throughout the school year and summer break.

<http://www.rose-prism.org>

New Indiana Science and Math Common Core Standards

PRISM is preparing to support your classroom with resources mapped to the 2010 Indiana State Science Standards and the Math Common Core Standards. **PRISM** unifies the digital learning space for Indiana's 6th – 12th grade teachers of science, technology, engineering, and mathematics (STEM). Our website helps to merge large complex, or dispersed entities into a single portal that is easier to navigate. Resources are indexed using the Indiana State Standards and soon the Math Common Core Standards, and crossed

indexed by subject and grade level. The search feature allows users to find resources according to keywords.

- All catalogued electronic resources are evaluated using eight distinct criteria. Reviewers contribute pertinent and candid commentary. This list of guidelines allows for quick and easy classroom implementation.
- Additional peer-reviews, provided by Indiana colleagues who have used the resource, add a real-world dimension to the annotations. These reports

from the field may also include adaptations and supplemental materials to extend the usefulness of the digital resources being reviewed.

- Resources spanning Algebra to Calculus and Biology to Physics have been added to our database as we strive to create a growing and relevant collection.

A Daily Lesson Plan Builder embeds the electronic resources within a sharable blueprint for standards-driven learning.



NCTM National Conference in Indianapolis

This is a great opportunity for Indiana teaching professionals to “Hear the latest on **Common Core Standards**; learn about **Interactive Whiteboards**; Get the update on intervention; or hear about connecting math

to literature, music, and history from leading experts. We have the professional development you're looking for! Whether you're a classroom teacher, administrator, or pre-service teacher, you'll find the topic of your interest and plenty

of choices for your grade level.” There are over 650 presentations to choose from and it is in our state capital!

Next year the NSTA will host a conference in Indianapolis – Yeah Indiana!

<http://www.nctm.org/conferences/default.aspx>



www.facebook.com/Rose.PRISM

PRISM is on Facebook

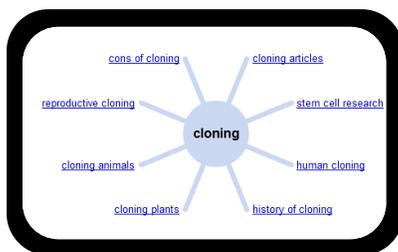
PRISM is proud to announce our page on [Facebook](#). Show your support for PRISM by becoming a fan today! On our Facebook page you will find links to resources, articles and videos of interest to teachers and news about professional development opportunities.

Like our page so you see updates right away.

Recent postings include information about the next Moodle class, NCTM Conference in Indianapolis – check Facebook to see which of our followers is presenting at the conference, grant

opportunities, more tech tips from Google, professional development at the Adler Planetarium in Chicago and more.

Let us know what you like so this page is a useful tool for you and your students.



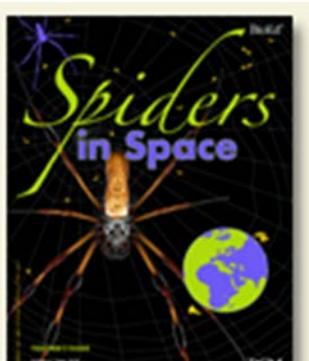
Tech Tips

Have you used Google's Wonder Wheel? Searching for information about a topic like cloning can return “About 19,000,000 results (0.14 seconds) “according to the Google page. That is a lot of information. If you use the Wonder Wheel, Google will

organize the information into the big ideas to the topic. You can click on any of the spokes to create yet another Wonder Wheel that will further breakdown the topic into the big ideas. This would be a great tool for students preparing to research a topic.

Here is a link to one of many TeacherTube videos to help you start using Wonder Wheel.

www.teachertube.com/viewVideo.php?video_id=197754&title=Google_Wonder_Wheel



Spiders in Space

An orb weaver spider will be transported to the International Space Station (ISS) aboard Space Shuttle STS-134 in spring 2011. Once on the ISS, the spider and its food supply (fruit flies) will be transferred into a chamber that has a camera and lighting system for collecting

images and videos. These images will be available as a photo archive on BioEd Online, once the mission begins. You and your students can participate in this exciting real-life research! To begin, register for the mission and download the free "Spiders in Space"

teacher guide. The guide contains instructions on setting up spider habitats in your classroom and helping students design their own "spider" investigations.

www.bioedonline.org/space/STS_Mission_134S.cfm



National Debt Clock, Avenue of the Americas, New York City

Yummy Math

Providing Relevant Math for Teachers and Students

Check out this website!

www.yummymath.com

Two math instructors have put together a site with math based on current events.

Recent Relevant Posts

National Debt

Congress has begun debating what should be included and what should be removed from the 2012 budget that President Obama submitted recently. The words debt and deficit are constantly in the news. Introduce your students to these concepts

so that they can appreciate the important discussions that are happening right now in Washington ... and do some math.

This activity involves reading charts, making comparisons, computing percent and analyzing trends.

Academy Awards

On February 27th the Academy Awards once again presented the nominations and awards for the best movies and actors of the year. The gold Oscar statue was awarded amidst

celebrity parading and movie analysis.

In this investigation, Brian looks at the changes in movie ticket prices over the last 30 years. Using his scatter plot (or his data) students analyze rates of change, make predictions about the future and guesses about the past, try to create lines of best fit, and talk about the topic of the day, the Academy Awards.

Resources are PDF and .doc format so you can customize the work for your students.



The PBL Academy. ADVANCING PROJECT BASED LEARNING IN EVERY CLASSROOM



is a great source for PBL workshop lessons for students!

Looking for Project Based Learning materials for your science or math classroom?

The [PBL Academy for Indiana](#) provides project based learning instruction, structure, and on-going support for K-12 educators. The goal of the PBL Academy is to help teachers improve student achievement through rigorous, authentic projects that address

academic standards as well as the development of 21st century skills.

Fundamental to the PBL Academy is the creation and strengthening of classroom to community bonds. Each project developed by participating teachers must address an actual local 'need' – an on-going business process, an enhancement of a municipal program, etc. This building

of partnerships between classrooms and local enterprises has been one of the key elements in the success and growth of the PBL Academy concept.

Visitors can login as a guest to view PBL resources under Molecules Matter and Math Matters. Click on Teachers>Project Libraries to find PBL documents you can use.



Toyota International Teacher Program

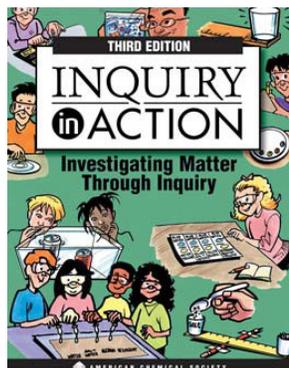
IIE is currently accepting applications for the 2011 Toyota International Teacher Program to Costa Rica, scheduled for November 19 – December 3, 2011! The deadline to apply is May 4,

2011, 11:59 PM (EST).

The Toyota International Teacher Program provides international, professional-development opportunities to U.S. secondary school teachers to advance

environmental stewardship and global connectedness in U.S. schools and communities.

www.iie.org/en/Programs/Toyota-International-Teacher-Program



Download this book!
It's free!

www.inquiryinaction.org/download/

Be sure to check PRISM often as we are continuing to add to our collection of STEM resources for grades 6 – 12.

Watch for new special collection resources for PBL, Inquiry, Modeling, Technology, Engineering and a section for substitute teacher plans!

Download Inquiry in Action

At the American Chemical Society, we're always hard at work developing resources to support elementary and middle school science teachers. If you like Inquiry in Action, then you may be interested in seeing other great resources ACS produces, or perhaps becoming a member.

[The Best of Wonderscience](#)
Supplement your science curriculum with nearly 150

hands-on activities, puzzles, and games. Downloadable activities cover everything from chemical and physical change to states of matter to motion and energy.

[ChemMatters Magazine](#)

An award-winning magazine for high school chemistry, ChemMatters demystifies chemistry at work in our everyday lives. Each issue includes a Teacher's Guide containing background

information, follow-up hands-on activities, classroom demonstrations, and other resources to facilitate student comprehension.

[Byte-size Podcasts](#)

Learn about the latest discoveries in chemistry with these entertaining podcasts specially produced for late elementary and middle school students.

Websites



IEEE-USA: Building Careers & Shaping Public Policy

www.ieeeusa.org

IEEE-USA Home: For Volunteers: Councils and Committees: Precollege Education Committee: PEC Teacher Reward/Grant Program

Detectives in the Classroom

www.montclair.edu/Detectives/

We developed a curriculum consisting of five instructional modules that explore specific health-related issues relevant to middle school students through the science of epidemiology. The modules, called Detectives in the Classroom, prepare students to make personal and collective, evidence-based health-related decisions.



Scratch: Imagine, Program, Share

scratch.mit.edu

Scratch: a programming language for everyone. Create interactive stories, games, music and art - and share them online.



Alice

alice.org

The Federal Bureau of Investigation, CMU and the Alice Project have announced expansion of the FBI Safe Online Surfing program to include a national competition in which middle and high school students will create 45-second animations using Alice.

What PRISM can do for you!

- Easily find the perfect teaching and learning resources from our library of over 2,700.
- 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

Professional Development Opportunities

Modeling programs for high school science teachers - June/July 2011

in Chemistry, Physics and Biology - open to all Indiana High School Science Teachers.

www.nd.edu/~nismec/nismec11.htm

Basic & Intermediate Moodle for Teachers – Summer 2011

The PRISM team will be offering free, five-week distance education courses on using the Moodle Learning Management System. These online classes will be fast paced and intended to develop a stronger understanding of the features in the latest version of Moodle.

www.rose-prism.org

Professional Development – Adler Planetarium

The Adler is here to support educators and their professional development. Join us for workshops and our annual open house. Become a member of our Teacher Advisory Board for unique opportunities to share your expertise.

www.adlerplanetarium.org

"Physiology: know your Lung Capacity? The mathematics and science of Breathing".

An upcoming opportunity for professional development. Sponsored by IABT and Purdue Biology Outreach. Free for IABT Members and a nominal cost for non-members. The workshop is Saturday May 7, 2011 "Physiology: know your Lung Capacity? The mathematics and science of Breathing". Dr. Nancy Pelaez. Purdue University, Lilly Hall of Life Sciences, West Lafayette, IN. You may contact Donna Keller at dokscience@gmail.com or Isidore Julien at julieni@purdue.edu if you wish to attend.

How can I use project-based learning to increase student success?

The institute immerses educators in the project-based learning approach through three days of hands-on exploration and implementation. Registration: 250 per person (March 1–May 31) \$350 per person (June 1–15) School teams of five or more people qualify for a 20% discount. Register at: education.iupui.edu/soe/institute/



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.