

Newsletter

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New 2018 Moodle Training Courses

We are offering three FREE online training courses beginning in February. We offer Professional Growth Plan (PGP) points for each course.

Basic Moodle for Teachers (10 PGP Points)

February 6 - March 6

A basic introduction to Moodle 3.4. You will learn how to build a classroom course and populate it with files, assignments and quizzes.

Intermediate Moodle for Teachers (10 PGP Points)

February 7 - March 7

A continuation from the Basic Moodle for Teachers course. Choose this course if you already have Moodle experience and would like to learn how to use some of the more advanced features like wikis, databases, lessons, and RSS feeds.

Advanced Moodle for Teachers (10 PGP Points)

February 8 - March 8

A continuation from the Intermediate Moodle for Teachers course. This course will take the Intermediate level course a step further as participants learn advanced gradebook features, groups and groupings, conditional activities, and the workshop activity module.

All of the courses are completed online at your-own-pace during your own free time.

If you would like to register for a course, please visit the PRISM website, log-in, and click the 'Event Registration' link. Use the drop-down menu to select the appropriate course and click the 'Registration Form' button. You will see a complete description of the course. To sign up, scroll down and enter your information. You should receive a confirmation email. If you do not receive a confirmation email, please contact us.

Quality Online Resources



The MATH LEARNING CENTER

Classroom Focused, Mission Driven

The Math Learning Center (MLC) is a nonprofit organization serving the education community. Their mission is to inspire and enable individuals to discover and develop mathematical confidence and ability. MLC offers innovative and standards-based curricula, resources, and professional development opportunities. Educators throughout the United States and in many international locations use MLC products and services.

MLC has been committed to addressing the needs of classroom teachers and their students from the beginning on their programs over 40 years ago. MLC grew out of a project funded by the National Science Foundation (NSF) to improve the teaching of mathematics. The founders spent several years traveling to schools to observe classrooms and visit with teachers and students. Over time they developed a philosophy that emphasizes building a deeper understanding before engaging more abstract concepts. Motivated to continue creating new methods of math instruction, they established MLC as a nonprofit corporation in 1976.

A few years later a convincing body of research emerged suggesting visual approaches to teaching and learning have universal validity. MLC experimented with a variety of applications to math education and with additional funding from NSF refined the results into an integrated system of models that build across the grade levels.

Educators responded enthusiastically to this innovation and by the mid-1980's, it became clear that teachers needed classroom materials to facilitate implementation. Since then the organization has expanded to include a full range of products support services and online web-based resources.

About MLC Founders

MLC was founded by [Dr. Eugene Maier](#), [Don Rasmussen](#), and David Raskin. At the time, Eugene Maier was a professor of mathematics at the University of Oregon, Don Rasmussen was the math specialist at the Oregon Department of Education, and David Raskin was curriculum director for the Beaverton School District. Dr. Maier and Mr. Rasmussen remained active in the organization as co-directors until their retirement in 1998. Dr. Maier continues to contribute through his writing, including books, essays, and online materials. For more see [Dr. Maier's Article Archive](#).

Online Resources

The Math Learning Center is committed to offering free tools, materials, and other programs in support of their mission to inspire and enable individuals to discover and develop their mathematical confidence and ability. Online resources include a great variety of [math apps](#), [free math lessons](#), [free publications for math education](#), [grants for materials](#) and the [Bridges University Program](#).

For more information go to: [The Math Learning Center](#)

Quality Online Resources

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The Royal Society of Chemistry (RSC) is the world's leading chemistry community, advancing excellence in the chemical sciences.

With over 54,000 members and an international publishing and knowledge business RSC is the UK's professional body for chemical scientists, supporting and representing RSC's members and bringing together chemical scientists from all over the world.

A not-for-profit organization with a heritage that spans 175 years, the RSC has an ambitious international vision for the future. Around the world, The RSC believes that they have a priority to invest in helping to educate future generations of scientists. The RSC raises and maintains standards. They partner with industry and academia, promoting collaboration and innovation. The RSC advises governments on policy and promotes the skills, information and ideas that lead to great advances in science. In a complex and changing world, chemistry and the chemical sciences are essential. They are vital in our everyday lives and will be vital in helping the world respond to some of its biggest challenges.

LearnChemistry
Enhancing learning and teaching

The RSC is committed to promoting, supporting and celebrating inclusion and diversity. We understand that the success of communities depend on the ability to nurture the talent of the best people regardless of who they are or their background.

The Royal Society of Chemistry team aims to provide the highest quality online resources. They believe their resources should be relevant to, and easily incorporated into, all chemistry and science classes at the relevant levels and appropriate age groups.

Discover a wide range of free-to-access resources to enhance the learning and teaching of chemistry. Learn Chemistry is RSC's home for chemistry education provided online. Educators and students at all levels from primary school to a university can access thousands of free resources, such as:

- Experiments including this year's Global Experiment, 'The Art of Crystallization'
- videos to demonstrate chemical concepts and introduce inspirational chemists
- worksheets, including 'Starters for Ten' activities; and
- games, such as Gridlocks chemistry Sudoku

LearnChemistry has lots of information for students, parents, teachers and career advisers about careers and study options in chemistry. LearnChemistry's dedicated careers site, A Future in Chemistry, can help students to:

- decide between university and vocational routes
- pick the right course to fit their education goals and objectives
- see where chemistry can take them with real-life job profiles

For more information: [LearnChemistry](#)



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Quality Online Resources

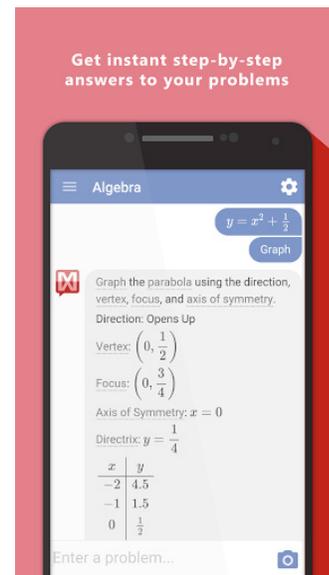
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Mathway



Mathway provides students with tools they need to understand and solve daily math problems from basic math through Calculus and Statistics. Mathway has been known at the #1 math problem-solving resource available for students, parents and teachers. Mathway has a long-term goal of providing quality on-demand math assistance to all students at all grade levels into college.

Mathway has an online platform to input problems ([Mathway](#)), as well as apps for both [Android](#) and [iOS](#) (Apple) devices. Once a problem is put into the online platform or app, the problem is solved instantly. Step-by-step instructions are provided with each solved problem on Mathway. If students are guided and shown how to use the step-by-step instructions on Mathway, this can become a valuable tool in student learning of problems particularly outside of the classroom.



Pocket Physics by Geckonization



Pocket Physics is easy to use, free education app that covers most of the main concepts, equations, and formulas used in physics courses. This education application is a great guide, whether a student wants to refresh his/her knowledge, prepare for an exam, or just refresh the core concepts of physics.

Pocket Physics provides brief explanations of main concepts taught in an introductory physics course from linear motion to astronomy. It is a quality reference, full of formulas, equations, and images for students who need help with physics homework assignments.

This application contains the following topics: linear motion, constant acceleration motion, projectile motion, constant circular motion, force, work, power, energy, rotary motion, oscillatory motion, gravity, waves, elasticity, electrostatics, direct current, magnetic field, altering current, thermodynamics, hydrogen atom, optics, modern physics, hydrostatics, astronomy.

Pocket Physics is the best physics app on Android market. This educational app provides free physics lessons and homework help from basic physics to complex problems.

For more information and to download this app: [Pocket Physics](#)

Professional Development Opportunities



PRISM Workshop at HASTI Crash Course on Moodle – Quiz Question Types

Learn to create high-level, high-quality questions for assessments ranging from simple quizzes to unit tests, ECA's and final exams.

The PRISM team has launched a new distance education course on the PRISM website: Crash Course on Moodle – Quiz Question Types. On Wednesday, Feb. 14, 2018, Bob Jackson will be facilitating a 4-hour workshop introducing this online course to science teachers interested in using Moodle to create high-level, high-quality assessments. The workshop will involve teachers enrolling in the distance education course and beginning the course during the workshop. Teachers should bring laptops, notebooks or other devices to the workshop to participate. Teachers should also bring or have access to test bank questions, old versions of tests that they have given and/or current textbook assessment materials. Teachers should have time available to them to begin working on building their own assessments of choice using the Moodle Quiz activity.

All question types will be modeled and one-on-one instruction provided on how to effectively use this tool to build high-quality, high-level assessments ranging from simple one question quizzes to ECA's and final exams. Upon completion of the HASTI workshop, participating teachers can be awarded 4 PGP's. If teachers choose to follow this up by completing the distance education course, each will receive an additional 6 PGP's.

Crash Course on Moodle - Quiz Question Types

Crash Course on Moodle - Quiz Question Types is a distance education course designed to provide teachers the skills necessary to use a basic Moodle course to:

1. Learn to create different types of questions within tests and quizzes these include: true/false, multiple choice, short answer, essay, Cloze, drag and drop into images and text, questions with calculations required within them and others.
2. Learn to develop high-level assessments with a variety of question types.
3. Learn to develop assessments that have good feedback to students upon completion.

Special Note: Crash Course on Moodle - Quiz Question Types is meant to be an introduction to the Moodle LMS and some basic tools and resources that can be utilized on LMS platform. By taking this course, a teacher should learn how to create a variety and high quality banks of quiz or test questions to use for assessments. It is not a comprehensive training for Moodle. Many aspects and features of the Moodle LMS will not be covered in this course.

Professional Growth Points

Eight (8) PGP points can be earned for completion of this course (Indiana participants only). You must be a member of PRISM to register for this course.

To Register for these courses: Go to the [PRISM website](#). If you are not a member of PRISM, you will first have to create an account for yourself. See **Create an Account** in main menu. Once you are logged in to PRISM, in the main menu on the left, click on **Event Registration**. In the drop down box, select one of the above courses, complete registration form, and submit.

Indiana Pacers STEM Fest 2018 in partnership with Conexus Indiana

Sunday, February 11, 2018

Bankers Life Fieldhouse

STEM Fest: 11:00 AM - 1:00 PM

Indiana Pacers vs New York Knicks: 5:00 PM

Discover Science, Technology, Engineering, & Math through hands-on activities with local Indiana companies, universities, and non-profit organizations. Enjoy a fun-filled day as you get a glimpse into how the Indiana Pacers and other local teams use STEM in SPORTS! Come back for the Indiana Pacers vs. New York Knicks game starting at 5 PM. Tickets are only \$10 per person for both the STEM Fest and the Pacers game!

Indiana Pacers STEM Fest 2018 for Families:

- A STEM Mentor from a local company, university, or non-profit organization will take your family on an interactive journey through various STEM activities on the main concourse of Bankers Life Fieldhouse.
- Concession stands will be open and available to purchase food & beverage throughout the STEM Fest.
- Meet Pacers Mascot Boomer and the Pacemates
- See how the Pacers & other local sports teams use STEM in sports.
- Receive tickets to the Pacers vs. New York Knicks game at 5:00 PM that evening
- "Get in the Lane with STEM" and meet future college representatives & employers representing STEM organizations – it's never too early to start helping your children plan for their future!
- Parking will be available in the Virginia Avenue Garage on a first come, first served basis for \$15 per space for covered parking, and \$6 per space for rooftop parking (limited number of spaces available)

The deadline to order tickets is: Thursday, February 1, 2018

What PRISM Can Do For You!

- Easily find the perfect teaching and learning resources from our library of over 5,000.
- 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!
- 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 PGP points 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



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.