

Newsletter

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Moodle Training Courses

We are offering six FREE online Moodle training courses this fall. We offer Professional Growth Plan (PGP) points for each course.

Basic Moodle for Teachers (10 PGP Points)

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

Dates: Ongoing - Register any time!

Intermediate Moodle for Teachers (10 PGP Points)

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.

Dates: Ongoing - Register any time!

Advanced Moodle for Teachers (10 PGP Points)

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

Dates: Ongoing - Register any time!

Moodle Training Courses

Crash Course Activities and Resources for Moodle (8 PGP Points)

This course focuses on learning how to use the Moodle activities and resources to develop quality lessons for students on the online Moodle platform. Teachers will learn how to grade assignments and other activities more efficiently and provide feedback to students in a secure online environment.

Dates: Ongoing - Register any time!

Crash Course on Gradebook & Grading for Moodle (8 PGP Points)

This course focuses on learning how to use the Moodle grade book. Teachers will learn how to add, edit, and update grade items in addition to advanced grade book topics.

Dates: Ongoing - Register any time!

Crash Course on Quiz Question Types for Moodle (8 PGP Points)

This course focuses on learning how to create and use the various Moodle quiz question types.

Dates: Ongoing - Register any time!

If you would like to register for a course, please log in to the [PRISM website](#) and click the 'Event Registration' link in the Main Menu on the left. Use the drop-down menu to select the appropriate course. You will see a complete description of the course. To sign up, scroll down, enter your information, and click the 'Submit Registration' button.

Resources for Teachers

the Physics Classroom

The Physics Classroom is a free, online website developed mainly for beginning physics students and their teachers. The website features a variety of resources intended to support students and teachers. The Physics Tutorial section is one of the most popular sections on the website. Tutorials cover basic physics topics using graphic and easy-to-understand language. Each unit is divided into lessons and sub-lessons. The sub-lessons are accompanied by Check Your Understanding sections, providing an opportunity to assess one's understanding of the lesson material.

Minds ON Physics Modules provides a student with intense, interactive exercises in answering questions that target common conceptual misunderstandings. Instant feedback to student answers is provided. When a pattern of a student missing questions is observed, the student is directed to question-specific help that will assist in correcting misunderstandings.

The Calculator Pad provides students practice in solving physics word problems. Each problem is accompanied by an answer along with an audio file that provides detailed directions on how to solve the problem.

The Review Session serves as a test review tool for students who are preparing for an upcoming physics exam. The questions are provided on one page and the answers, explanations and solutions are provided on a different page.

The Physics Classroom provides help for teachers. It is packed with classroom-ready and teacher-friendly resources. Many cross-over teachers, new teachers, and teachers returning to the profession after a lengthy detour in life, have found the Tutorial section to be an invaluable resource in catching up on physics and to use to help in setting up their own lessons.

For more information: <https://www.physicsclassroom.com>



The National Council of Teachers of Mathematics (NCTM) is committed to offering standards-based resources that improve teaching and learning of mathematics. The Illuminations website is a project of the NCTM. Illuminations provides standards-based math lessons and interactives for K-12 students. All lessons and interactives are search by NCTM's [Principles and Standards](#) and by the [Common Core State Standards](#). Illuminations has over 700 comprehensive math [lesson plans](#) and over 50 [interactive activities](#). The Illuminations website is a great resource for engaging students in math exercises and promoting mastery learning.

For more information: <https://illuminations.nctm.org>

Resources for Teachers



NASA's journeys into space have propelled technological breakthroughs, promoted scientific research, and increased man's understanding of the universe. STEM education is of utmost importance in achieving these accomplishments.

NASA STEM Engagement initiatives strive to deliver online educational resources so that K-12 students can become engaged in exciting content. The STEM Engagement team has three primary goals:

- Create unique opportunities for a diverse set of students to contribute to NASA's work in exploration and discovery.
- Build a diverse future STEM workforce by engaging students in authentic learning experiences with NASA's people, content, and facilities.
- Attract diverse groups of students to STEM through learning opportunities that spark interest and provide connections to NASA's mission and work.

To achieve these goals, NASA STEM Engagement strives to increase K-12 involvement in NASA projects, enhance higher education, support underrepresented communities, strengthen online education, and boost NASA's contribution to informal education. The intended outcome is a generation prepared to code, calculate, design, and discover its way to a new era of American innovation.

For more information: <https://www.nasa.gov/stem>



Nature is the fantastic factory that makes the building blocks of all lives—food, drinking water, the stuff we own, and the air we breathe. That's why The Nature Conservancy and its 550 scientists have created Nature Lab. The Nature Conservancy wants to help all students learn the science behind how nature works for us and how we can help keep it running strong. The Nature Lab is the Nature Conservancy's outdoor education curriculum platform to engage all youth. Comprehensive curricula are available for three age groups: Ages 5-11, Ages 11-14, and Ages 14-8. Teacher guides are available for all lessons. Main lesson topics fall into 4 broad areas: protection of land and water, provision of food and water sustainably, the tackling of climate change and building healthy cities. Virtual field trips are available in each of the content sections. Designed for ages 9-15 but customizable for all ages, the virtual field trips allow students to travel the world and explore natural environments without leaving the classroom. Each virtual field trip contains a video, teacher guide, and student activities.

For information: <https://www.nature.org/en-us/about-us/who-we-are/how-we-work/youth-engagement/nature-lab/>

Resources for Teachers



The World Wildlife Fund (WWF) is the world's leading conservation organization now working in over 100 countries. WWF leaders collaborate with people around the world to develop and deliver innovative solutions that protect communities, wildlife, and the place in which they live. WWF works to help local communities conserve the natural resources that they depend upon; transform markets and policies toward sustainability; and protect and restore species and their habitats. Today, human activities put more pressure on nature than ever before, but it's also humans who have the power to change this trajectory. WWF has developed Wild Classroom to connect educators and parents with tools and online resources they need to help kids explore and begin to understand the world around them. Wild Classroom has been recognized as one of 2021's Best Digital Learning Tools by the American Association of School Librarians (AASL). Choose from a variety of toolkits featuring information guides and activities about some of WWF's priority species and conservation goals. These subject-integrated lessons are perfect for school, home, or any learning environment and will leave kids with an understanding of how their actions help shape the future of nature.

For more information: <https://www.worldwildlife.org/teaching-resources>



Secondary math teachers can reinforce concepts learned in the classroom by allowing and promoting the use of the Photomath app. Students can check their own homework assignments and get immediate feedback which is feedback from a source other than their math teacher which can add an innovative perspective to learning math using technology. Individual student learning can be accelerated in that the student does not have to wait for feedback from the math teacher or wait for going over the work in class. Photomath is designed to support student learning at the level of understanding of the student. The Photomath team realizes that learning is not the same for all students and provides a unique tool that many students find useful in learning math.

For more information: <https://photomath.com/en/teachers/>

Professional Development for Teachers

HASTI 2021 Annual Conference
February 13 - 15, 2022
Marriott East - Indianapolis
Exhibit Hall

The HASTI Conference committee is working hard on the details of the upcoming conference in February. Many events are being planned to celebrate the 50th! Many science teachers and other science education professionals will be receiving an invitation to exhibit and present at the conference. Some significant changes have been made that the HASTI conference committee believes will enhance the overall experience for attendees at the annual conference.

1. New location: Marriott East Indianapolis (7202 East 21st Street, Indianapolis, IN).
2. Lower booth rentals – HASTI will not be using a vendor to set up exhibit tables. The Marriott has tables that will be provided.
3. Additional sponsorships are available: 50th anniversary and awards celebrations (Sunday evening), Science Olympiad (Monday evening), conference bags, lanyards, etc.
4. Additional media links through Whova (Conference program book).

For more information: <https://hasti.org/event-4522730>

What PRISM Can Do For You!

- Easily find the perfect teaching and learning resources from our library of over 5,000.
- Store your classroom materials online so that they are available to you from any computer.
- Select from free learning resources that emphasize visualization, rich context, staged-problem solving, and electronically enabled collaboration / communication.
- Save a list of your favorite resources for quick retrieval.
- Reach your students more effectively by using web media for the digital age.
- 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.
- Create and share lesson plans that teach your subjects utilizing your favorite resources.
- 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.

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