

Simple Machines & Engineering Design Process

Audience: Grade 2-6 Classroom Teachers
Instructor: Mary Rizzuto
Dates & Times: Wednesdays, February 8, 29,
 March 14 & 28, 2012
 4:00 – 7:00 PM

Location: Needham Science Center
Cost: \$220 TEC Members / \$260 non-TEC
Earn: 12 PDPs
 22.5 PDPs for graduate credit
Grad. Credit: 1 credit from Worcester State
 University for an additional \$100,
 payable at the first class

Course Description: This course will relate the function of simple machines to the principles of physics behind their design. Participants will examine the role of engineering/technology within the grade 2-6 Science curricula and address a full complement of standards, both national and state. They will also collaborate in design challenges that use the engineering design process as part of the task and will evaluate and discuss their solutions to the proposed challenge. All design challenges presented incorporate simple machines and can be integrated into the elementary classroom. Examination of global competencies, the 21st century skills set, scientific inquiry, science notebook usage and expository writing tasks are integrated throughout each session.

About the Instructor: **Mary Rizzuto** serves as the Elementary Science Curriculum Specialist for the Needham Public Schools. She continues an affiliation with the Cheche Konnen Center at TERC, in Cambridge, where, as a teacher researcher, she examines the role that language plays in how young children come to understand the big ideas of math and science. She is an adjunct professor at Simmons College for the Urban Education Graduate Program, a National Conference presenter and published author. Mary's expertise is in inquiry teaching and learning. She draws on her experience as a classroom teacher and science specialist, having taught in traditional, looping and multi-graded classrooms from Kindergarten through sixth grade.

Cancellations: No credits or refunds will be given on withdrawals less than 10 business days before the first class.

Checks will be processed approximately two weeks prior to the start date of the course; other payments are processed immediately.

Note: After January 27, a \$25 late fee is required with each course registration.

Online registration available! - see TEC website for more information

To register: Visit our Online Registration Form at http://www.tec-coop.org/PDL_RegForm.html or complete this form and send, along with your check or purchase order, to:
 TEC Professional Development, P.O. Box 186, Dedham, MA 02027

Please register me for "Simple Machines" beginning on 2/8/12!
 Enclosed is a check or purchase order for: ___\$220 TEC / ___\$260 Non-TEC

Name: _____ School: _____
 Home address: _____ Role: _____
 City, state, zip code: _____ Address: _____
 Email: _____ City, state, zip code: _____
 Home phone: _____ Work phone: _____