

**3-Day Courses:
Monday, Tuesday & Wednesday
July 1,2,3, 2013
9:00 AM-3:30 PM
\$275 per course**

01 ART INSPIRATIONS

**Instructor: Mary Murphy, Art Teacher
Haverhill High School**

What inspires YOU??? Create artwork that reflects your personal style and inspires others. Visit the world-famous Addison Gallery of American Art in Andover and have a picnic lunch on the lawn. Stretch your own large canvas; then use acrylics to develop an abstract painting based on your personal impressions of your museum visit. Another exciting project involves colored glass etchings. Bring a favorite quotation, poem or original design, and etch it into glass. Take it home framed and ready to hang. You also create an Andy Warhol-style graphic design using personal images and computers; then mount this work on a large mat board. Other activities are also possible, based on time and interest. Immerse yourself in a rewarding artistic adventure.

02 Cosmetic Chemistry

**Instructor: Kristen Quinn, Physics Instructor
Rupert A. Nock Middle School, Newburyport**

Enjoy three full days of scientific investigation. This course is designed to engage aspiring female scientists in all aspects of chemistry and lab design. Learn about the fundamentals of lab design, such as developing a hypothesis, establishing controls and variables, and creating tables to illustrate data. Design a variety of experiments, which may include testing which nail polish lasts the longest, which hairspray holds the tightest curl, and which mascara is the most waterproof.



03 Fashion Design Challenge

**Instructor: Kathleen Howe
Certified Fashion Design Instructor**

Have you ever watched Project Runway? Do you have (or want to develop) your own sense of style? In keeping with the popular television show's theme, meet and conquer a new design challenge every day. Express yourself as you learn some basic skills, including hand sewing techniques as well as how to operate a sewing machine. Sketch your designs; develop beading skills that add sparkle to your clothes. Complete two or more of the following: pillow, purse, tote bag, skirt and pajama pants. Hit the runway and present a fashion show of your new designs on the final day.

04 Make a Scene!

**Writing, Directing and Acting
Instructor: John Chamberlain, English Teacher
Jonas Clarke Middle School, Lexington, MA**

Do you love theatre? Making a scene can be a creative experience. We will read some examples first, such as a daily "kitchen scene" found in many stories or a transformational scene where Narnia is first discovered in C.S. Lewis' "The Lion, the Witch and the Wardrobe." Then students will invent their own characters, give them attributes, put them in situations, create dialogue and see what happens as the action unfolds. Rehearse and enact them as scripts and skits. In several settings or situations, we will explore characters' appearances, intentions and interactions, which might be comical, villainous, foiling, guiding or heroic.

05 Marble Machine Madness: Advanced

Instructor: Peter Bloom, Domino Physicist

The longest and fanciest marble run you will ever build awaits your helping hand. Using an eccentric combination of cardboard ramps, metal tracks, plastic tubes, funky tunnels and yards of duct tape, you and your teammates will work together to create the ultimate marble machine, designed to keep a one-inch glass marble in motion far as long as possible. What tricks can you convince a marble to perform on its way down from high to low? More sophisticated, challenging and intricate than the usual Marble Machine class, your structures will involve multiple stories and advanced concepts.

06 STOP MOTION MOVIE-MAKING

**Instructor: Eric Kingsley, Founder,
Brickapalooza**

Here's a rare chance for upper grade students to create your own short stop motion animation video with Legos. Use storyboarding to develop a plot, ideas and set design. Build characters and sets from hundreds of Legos. Add dialogue. Be a director, computer operator and movement coordinator as your team creates voice-overs, sound effects, and credits for your video. Movies will be posted to YouTube for you to download shortly after the course ends.



**FRIDAY, JULY 5, ONLY 9:00-3:30
07 DOMINO PHYSICS CHALLENGE**

Instructor: Peter Bloom, Domino Physicist

How big a chain can you and your teammates design and make if you have all day and thousands of dominos? Build all of the chains into one connected Rube Goldberg-style Domino Megachain. Learn about the Laws of Motion and other principles of physics as you fill an enormous room with your work. What else can you convince your falling dominos to do on the way down? Use trucks, matchbox cars, cymbals, and an odd assortment of props... even electric light circuits. You also create a huge Jenga Tower for the domino chain to demolish at the end of the show. Video clips of the final show will be added to the Kaleidoscope website, which you can download and keep. \$90 per person.